1 2 3 4 ORANGE COUNTY 5 CLEANTECH SYMPOSIUM SERIES б 3RD EVENT - SETTING THE COURSE 7 8 9 10 February 18, 2009 11 Date: 12 Time: 8:00 a.m. - 11:45 a.m. 13 UCF Executive Center Location: Orlando, Florida 14 Reported by: Leslie Richmond, RPR 15 16 17 18 19 20 21 22 23 ZACCO & ASSOCIATES REPORTING SERVICES 605 East Robinson Street, Suite 430 24 Orlando, Florida 32801 (407) 425-6789 25 ZACCO & ASSOCIATES REPORTING SERVICE



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Pur	nose	
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When & Where

Agenda Contact

Purpose

The purpose of the symposium series is to engage *local government* & *economic development officials, university researchers, associations, support services and cleantech companies* to better understand the cleantech community and to collectively help foster its growth in Central Florida. Clean is more than Green.

# 3rd Event - Next Steps - Setting the Course

Defining the Climate What Attracts These Companies? Key Infrastructure Needed to Support Clean Tech What We Have - What is Missing?

Sponsored by AquaFiber Technologies Corporation

\*There is no cost to attend this invitation-only event.

### Agenda

# Wednesday, February 18, 2009 Cleantech – Next Steps Setting the Course

#### 8:15 - 8:20 - Opening Remarks & Welcome

Kirstie Chadwick, UCF Venture Lab

Recap of Orange County Clean Initiative Discuss Next Step in the Process – Format for the Morning

### 8:20 - 8:30 - Keynote Speaker Introduction

John Lewis, Orange County Government

# 8:30 - 9:30 - San Diego Story (Sharing Best Practices)

Jacques Chirazi, Program Manager, San Diego Clean Tech Initiative

9:30 - 9:45 - Networking Break

### 9:45 - 11:00 - Working Group

Facilitated by: Nyda Bittman Neville, TNB Consulting with Marielle Granjean, UCF Institute for Economic Competitiveness

A Cursory Review of 10 Programs, Policies and Projects

with Brief Time Allocated for Feedback

11:00 - 11:30 - Open Forum

11:30 – 11:45 – Closing Comments/ Adjourn

# Contact

For more information, or to register for the event, contact: Christa Santos @ 407–882–1576 or 407–230–7018 (cell) or <u>christa@cksmarketing.com</u>

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PROCEEDINGS

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2 MS. CHADWICK: Okay. I think we're going to go ahead and get started. First of all, can everybody hear 3 4 me? Is this microphone on? Sounds like it is to me. 5 Okay, super. My name's Kirstie Chadwick. I'm the 6 director of the venture lab out of the University of 7 Central Florida. We have been helping mentor and moderate and what not this series of symposiums focusing 8 9 on Cleantech, of course, and we're glad all of you are 10 here, and welcome. I'm going to run through some quick 11 housekeeping topics, and then quickly turn it over to the folks that have all the good stuff. 12 13 First of all, I'd like to thank a couple of our 14 sponsors. Mitsubishi Power Systems has generously 15 sponsored today's keynote speaker, which is Jacques 16 Chirazi coming in from San Diego to talk about some of 17 the best practices going on in that area and that 18 region, of which is one of the premiere Cleantech type 19 of economic environments going on here in the United 20 States. 21 Jim Williams was with us last time. He did a 22 wonderful job presenting Mitsubishi's Cleantech 23 initiatives, and that was very valuable, and Shaun

24 Wattles, as well from Mitsubishi.

25 Also, the Orlando EDC, they helped us sponsor

Jacques' trip as well, and we had a wonderful dinner last night with the EDC folks, and they'll be giving a tour for Jacques today as well to help him get the lay of the land here in Orlando so we can brag about what we do, because it's some pretty cool stuff.

6 And then AcquaFiber, Tom Bland is right here. He's 7 been a cheerleader of these events from the beginning, 8 so we greatly appreciate their support as well. He does 9 all things algae, so if any of you have an interest in 10 algae and cellulotic, you know, oils and all kinds of 11 stuff like that, he's a fantastic resource for everybody 12 in that domain to chat with.

And then Orange TV. You can see the cameras here. 13 14 All of us that are standing under the lights get to be 15 on TV. It's a little disconcerting. They keep wanting 16 to interview us, and I hate that part of it. I was 17 asked by these wonderful gentlemen if you -- especially 18 during the open forum session of today's event, if you 19 have comments or questions or things you'd like to 20 share, please walk up to the microphones that are 21 standing over there, because, otherwise, you won't get 22 to be on TV, and that would be a shame because we are 23 trying to collect all the content that's going on at 24 these events so that we can collate that and integrate 25 that in with all the folks that are going on here.

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1 And, of course, the forum that we're at right now 2 is the Executive Development Center that's part of the 3 College of Business out at UCF, and they have graciously 4 supplied these facilities for us over the last few 5 months.

б And, with that, I want to just quickly go over the 7 format for today. It's going to be a little different 8 than what we've done in the past for those of you guys 9 who have been at all the events. In the past, the last 10 three events, we've been doing all the talking and you have been doing most of the listening, but this time 11 it's your turn. So John Lewis and George Rodone from 12 Orange County are here and they'll be chatting briefly 13 14 about their -- you know, kind of the high level goals 15 and objectives of this whole process that we're going 16 through, and then Jacques Chirazi will be presenting and 17 talking to us about the San Diego efforts, as I have 18 already mentioned. And then the rest of the event will 19 be an open forum. We -- the folks over with Sean 20 Snaith's group, Youth for Economic Competitiveness, they 21 are doing all kind of market research and what not on 22 this particular sector and have come up with a whole 23 list of best practices that are going on in various 24 regions all over the country in the Cleantech space and 25 have selected 10. Not that those are the best or worst

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1 of the 10, but the 10 that seem to potentially have a 2 fit for our region, and are going to introduce those to 3 the group and open the floor for each of the 10 for five 4 minutes or so just trying to garner some feedback as 5 best we can in the short time we have from all of you on 6 whether you think these are good or bad or some ways we 7 could tweak it for our region. And then we will hand 8 out some scorecards and survey forms for you as well to 9 give us some written feedback as well.

And, let's see, I think -- did I cover everything,
John, that you would like me to cover and Orange County
TV folks?

All right, super. Okay. So with that, I will --13 14 I'd like to turn the floor over to George Rodone. 15 George is currently serving as Mayor Crotty's chief of 16 staff here in Orange County, and in this capacity is 17 responsible for the operation of one of Central 18 Florida's highest profile elected officials, of course, 19 Richard Crotty. He's also responsible for the County's 20 economic development initiatives, which is his function 21 here today as we're talking about, you know, growing the 22 Cleantech sector as a strong economic development 23 initiative of the Mayor. So with that, George? 24 MR. RODON: Thank you, Kirstie. Thank you very 25 much. I was going to recognize some of my friends in

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1 the audience, but that would take all morning because I 2 think I know most of you. This is what I call the usual 3 suspect. We get together to find ways in which we can 4 make our community a better place through innovation and 5 through creativity and in ways to help businesses 6 succeed. I had the pleasure this morning to be with 7 Jacques, the speaker that you will hear from shortly, 8 and I think you will be impressed. And I want to thank 9 the City of San Diego for sharing you with us, Jacques, 10 this morning. Mayor Crotty is not available this morning. In fact, I just got an e-mail that at 9 11 12 o'clock this morning we have a telephone call in regards to the stimulus package and what it means to Orange 13 County. We had a conversation earlier because no one 14 15 seems to know. So hopefully we'll find out, and 16 hopefully it will be good news for some of you here in 17 the audience.

18 I think we're at a crucial time in many ways having 19 to do with clean technology at a time when local 20 budgets, local governmental budgets, are at a stress 21 point. But Mayor Crotty sends a message that he will 22 not give up on his goal to continue his efforts to make 23 this a green community and to have a lasting affect in 24 what he does in his last couple of years in office so that we leave a legacy for our children and 25

grandchildren in this community and in other communities to preserve the environment. And I think this is what it's all about, how we can, as he puts it, take the green technology into green, meaning the economic aspect of the green technology.

I want to thank a few people. UCF. Without UCF, б 7 we wouldn't be here and we wouldn't be able to do these 8 forums and many things that we do in county government, 9 and many of you are with UCF here in the audience today, 10 and we enjoy a wonderful relationship with, I say, the sixth largest university in America, and somebody said 11 maybe the fifth today. It is the fifth. So if we had 12 this forum next week, it may be the fourth. But it's 13 14 certainly one of the best kept secrets and one that we 15 need to continue to exalt and give accolades to because 16 it is a wonderful partner for Orange County.

17 Others could be thanked, but I'd be here all 18 morning. But I want to thank one person in particular, 19 because when Mayor Crotty has a vision as the Mayor of 20 the County, it is up to staff to take that vision and 21 make it operational. And I can't think of a better 22 partner to do that than John Lewis. Many of you know 23 John, and it is because of John, I think, that we're 24 here this morning. It is because of John that some of 25 you are here this morning. And I stand tall next to

1 him, although I think he's still a little taller than I 2 am. So with that, I'll introduce my partner, John 3 Lewis, who I always say he is the brains behind the 4 operations here in Orange County. But on behalf of 5 Mayor Crotty, welcome to this symposium, and I will sit in for a little while, then I'll see what the stimulus 6 7 package will bring us, and as soon as I find out, I'll let a lot of you know. Thank you. 8

9 John?

10 MR. LEWIS: Thank you, George. I'm John Lewis. I'm the economic development administrator for Orange 11 County and I work for George Rodon. And I want you to 12 know, and I think most of you already know, that George 13 14 is on the front lines of economic development in Orange 15 County and Central Florida. He's also behind the 16 scenes, out of the box, over the top, and around the 17 corner sometimes. So he's everywhere working for the 18 benefit of Orange County. And what I try to do in my 19 job is just to keep up with him.

20 This is our third symposium, and I think the 21 starting place is to remember the definition of 22 Cleantech and what Cleantech economic development means. 23 We try to restate that at the beginning of each 24 symposium to have some continuity among them all. And 25 so we need to just remember that -- what Cleantech

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1 means, and this definition is from Ernst and Young. 2 It's similar to the ones used by the Cleantech group and 3 it's similar to ones that are used by San Diego and 4 every community that's serious about Cleantech. 5 Cleantech encompasses a diverse range of innovative 6 products and services that optimize the use of natural 7 resources or reduce the negative environmental impact of 8 their use while creating value or lowering cost, 9 improving efficiency, or providing superior performance. 10 That's difficult to remember. So one of the things we did at the very first symposium was to make a formula 11 out of that, that clean is more than green. Cleantech 12 is equal to clean, plus innovation, plus value added. 13 14 And I think that simple formula is a easy way to 15 remember what Cleantech is.

16 My first job out of college was teaching college, 17 teaching economics at University of Austin, State 18 University of Texas, and they had a forestry department 19 there and we all had to speak from different departments 20 at Earth Day. As an economist, I was a little out of 21 place. Economics and Earth Day didn't quite match back 22 in 1969 and 1970, but today they do because of 23 Cleantech, because of the words, innovation and value added, in the formula. The definition of Cleantech 24 25 Economic Development that comes from that, at least the

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one we're proposing, is attracting, creating and growing the innovative high value companies that produce the products and provide the services that allow us and the rest of the world to go green.

5 When you look at the stimulus package that Governor Obama signed yesterday, Sean can tell you, especially 6 7 because he's out there talking about this all the time, 8 that there are arguments on both sides of what the 9 affect will be, what the impact will be, and what's 10 going to happen because of it. But if you stand back and just think about what we've been all about here for 11 the last five years, 10 years, it really comes back to 12 that in determining whether cities and regions and 13 14 states and nations are going to be successful. And 15 that's invention, innovation and entrepreneurship. The 16 cities and communities that are most innovative, that 17 have the most and the best entrepreneurs, the ones which 18 have companies that from time to time come up with new 19 inventions for new ways of doing things or new ways of 20 doing old things, they're going to be the ones that 21 succeed. And there is no place where technology is more 22 in the cutting edge of making a difference than in 23 Cleantech. It's going to affect every area of our 24 community, every sector of Orange County, and every 25 industry in Orange County. We want to make sure that we

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take full benefit of developing the Cleantech environment.

3 When we started this and Mayor Crotty asked us to 4 include economic development in his orange to green 5 initiative, we went looking around and quickly found б that the buzz word was Cleantech. The first document 7 that we found on the Internet was the Cleantech study in San Diego. This is really the model, the starting place 8 9 for what we're doing. San Diego also had some round 10 tables and symposiums related to the Cleantech efforts, and we learned from that. One of the things that we did 11 that was a little different, I think, is that we started 12 the Cleantech study and the Cleantech symposiums at the 13 14 same time so that each one of those would support the 15 other. The other thing that we did is made a commitment 16 to have a court reporter. That's what I call Leslie 17 Richmond here from Zacco Associates, transcriber, to 18 provide a full transcript of every one of our symposiums 19 and have Orange TV here to provide a full video of every 20 presentation. We'll have these up on the Orange County 21 website shortly. All of you, I think, have been 22 e-mailed the transcripts and the presentations. And our 23 purpose in doing that is so that our symposiums have a 24 lasting value after the event itself. You know, you go 25 to so many conferences, so many meetings and seminars,

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1 and most people forget at least a good percentage of 2 what they heard at those events the next day. A week or 3 two, or a month later, it's pretty much all gone. So we 4 want these to have lasting value so that you can go back 5 at anytime and read the full transcript, watch the full 6 video of any of the presentations. I'm hoping as we go 7 along that that doesn't decrease attendance. It could 8 occur to somebody, gee, why do I need to get up at 7 9 o'clock, 6 o'clock in the morning when I can go watch 10 the videos and read the transcript. We're happy that you still come out to meet with us in person. 11

It's a real pleasure today to -- let me just 12 emphasize again, there's two parts to our initiative. 13 14 The Cleantech study which is looking at our assets and 15 capabilities and possibilities in the area of Cleantech, 16 and then the symposium series. And we're happy and 17 fortunate that our UCF Institute for Competitiveness and 18 our venture lab is heading up those two initiatives. 19 One of our goals over the last 10 years is to develop 20 internal capabilities in our community for doing these 21 kind of studies and these kind of symposiums without 22 always having to go to an outside consultant from 23 Austin, for example, to do some of these things for us, 24 and I think we've reached that plateau where we have the 25 Institute for Competitiveness and the venture lab. Both

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1 programs, by the way, were part of Mayor Crotty's 2 stimulus package during the last recession. During the 3 last recession, a lot of communities were doing bi-local 4 campaigns, and Mayor Crotty wanted something more 5 substantive than that. So we started -- helped to start 6 things such as the incubator and the venture lab, a free 7 advisory board council for Orange County companies, and 8 we continued to fund those, and they're a very important 9 part of our economic development efforts.

10 The second part of this symposium. As Kirstie mentioned, will be the discussion of some of the 11 possibilities, some of the best practices. Now, this is 12 not a long in depth discussion of each one of these 13 14 ideas. What Marielle Granjean, the product leader, has 15 done in consultation with others is look through the 16 Cleantech study in San Diego, other reports, whittle it 17 down to 10 ideas that kind of cover a broad range of 18 things that we could be doing here. Some that are 19 relatively short term, some that are relatively long 20 term. What we'll do is spend like a minute or two 21 showing a couple of slides describing the essence of 22 each one of these ideas, then we'll ask every one of you 23 to tell us what you think about it for a couple of 24 minutes, and then to indicate on the survey form that 25 will be passed out, the feedback form, what you think.

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1 Is this -- do you think this is something important that 2 we ought to be looking at, or maybe it's less important. 3 Which one's the most important over the next two years, 4 which one is the most important beyond two years. Just 5 an initial indication, just on the surface of it, which 6 ones seem to be better ideas than others. This will be 7 tremendously helpful to Sean and Marielle as they go 8 further down the road in developing the study.

9 Our next symposium, the date yet to be determined, 10 we'll come back and Sean and Marielle will present a 11 draft of the study above before the final version is 12 made.

But we're kicking off this morning with Jacques 13 Chirazi who's the manager of the Cleantech Initiative 14 15 for the City of San Diego. He is, I think, one of the 16 nation's recognized experts in the area of Cleantech. 17 If you look at his resume, he has an all encompassing 18 job. He's responsible for promoting, fostering and 19 coordinating strategic alliances and collaboration among 20 local, regional and federal institutions to develop and 21 execute a Cleantech business, attract a strategy for San 22 Diego. He advises the San Diego Mayor in the 23 development of a Cleantech advisory council composed of 24 industry leaders, government officials, educators and 25 consultants. He works to remove regulatory barriers and

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1 align city operations, policies and programs to grow a 2 Cleantech cluster in San Diego. A big job. He probably 3 needs a break from that job once in a while. That's 4 probably why he came to Orlando today. Prior to this 5 job, Jacques was the corporate development manager for 6 Bainbridge Incorporated, a well respected strategic 7 management consulting firm with Fortune 500 companies. He has a master's degree from the University of 8 9 California, San Diego, Graduate School of International 10 Relations and Studies. He has a bachelor's degree in marketing. He is the rocket scientist of Cleantech. 11 12 And you will see this as you look through his resume. One thing that stood out to me in looking at 13 14 presentations that are on his schedule is that he will 15 be the keynote speaker at the Advanced Capacitors World 16 Summit, 2009. If that doesn't make him the rocket 17 scientist of Cleantech, I don't know what does. 18 But we're happy to have you here today, Jacques, 19 and we look forward to learning a lot from you. 20 Thank you. 21 MR. CHIRAZI: Thank you, John. It's a pleasure to 22 be here. I'm very thankful to the Orange County 23 government and UCF and, obviously, the industry to have 24 me come here. 25 So, as John mentioned, my role for the City of San

1 Diego is that I'm the program manager for the Cleantech 2 initiative. My role could be divided in two parts. The 3 main role is to really be the point of contact for any 4 Cleantech companies, whether they're established 5 companies, like Qualcom or General Atomics or start ups, 6 and my role is to help them with the regulatory process, 7 permitting land acquisition and so on. So that's sort 8 of my main role. And the other aspect is developing 9 policies and advising the mayor on moving forward what 10 it would take to make San Diego the destination for Cleantech. 11

So today I'm just going to have a brief overview of 12 the Cleantech initiative. I'll talk about the study 13 14 that John mentioned. I'll talk about the other study we 15 just completed in December, which is a benchmark study, 16 so it's the next step. In particular, an assessment of 17 ourselves and how well did we compete against other 18 cities. I'll talk a little about the sustainable 19 practices that the City has been doing. So in trying to 20 attract Cleantech companies, we realize that we also 21 have to become greener as a city. So I'll talk a little 22 bit about what we do here, I'll talk a little about the 23 clean building policies that come from the state, as 24 well as some of the things we're doing at the city 25 level. I'll talk about the von Liebig Center which the

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Cleantech Innovation challenge that we launched last
 year, we had awarded three professors. And, lastly,
 I'll talk about the San Diego Biomimicry Hub, which is
 kind of the next frontier for us at Cleantech, and I
 will be happy to explain that.

So the San Diego Cleantech, it has been changed. б 7 Now it's actually no longer called initiative, it's 8 called industry programs because we're moving in and 9 actually formalizing the program. So the initiative was 10 announced in April of 2007. The Mayor announced that he wanted to make Cleantech his next pillar, if you will, 11 for economic development. San Diego is known, very 12 similar to Orlando, we have a very large tourist 13 14 industry. We also have a very large ICT industry, as 15 well as biotech and aerospace. So he thought Cleantech 16 would be the next frontier, and I was actually hired to 17 help him do that. The first thing that was done really 18 for us is to identify what would be -- how are we going 19 to build that cluster. What are some of the assets we 20 need to have in order to be successful. So the whole 21 goal was to develop a number of policies, incentives and 22 programs that will help attract companies and also 23 provide sustainable solutions overall. So it's sort of 24 a win/win solution. It's not only products that can be 25 available to residential or commercial, but also be

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available to cities as early adopters.

2 As I mentioned, the benchmark study was done in 3 December, 2008. What we also announced in 2008 is the 4 San Diego clean generation program. So this is a solar 5 program that comes from two cities in California, б Berkeley and Palm Desert. It's from an assembly bill 7 called AB811, which allows cities to create special assessment districts. Very similar to a Metaruse (sic.) 8 9 or any type of assistant district. And, here, the idea 10 is simple. When you want to purchase solar panels on your home, it's quite expensive. It can be about, an 11 average home, probably 20- to \$25,000. The state gives 12 you about \$8,000 in rebates. The rest comes from the 13 14 federal government tax rebate. You still have left 15 probably around \$10,000 or so out of your own pocket. 16 And the issue there is people tend to get equity lines 17 or buy on their own credit card and so on. So what 18 we've done here with the help of the state is this 19 legislation allows cities to create special assessment 20 industry and you opt in or opt out of it. And the way 21 you pay back to this is through your public taxes. So 22 the beauty of the system is, if you buy a system and you 23 decide to sell the house, it stays with the house. So 24 the value kind of stays with the house. In the past, 25 you would buy the system and never recoup your

1 investment because the average person will sell their 2 home in about five years or so. So we're in the RFQ, 3 RFP process. We're the largest city to announce this 4 program. We're going to focus mostly on solar as the 5 first part of the project, but the golden nugget here is 6 looking at energy efficiency. Energy efficiency will 7 take you further in terms of investment in your home 8 than it would through a solar panel. And the whole idea 9 is that as we develop the program and we are successful, 10 we are going to add incentives for energy efficiency so people will be able to not only get solar panels, but 11 prior to that, they may get an energy audit and may 12 realize that actually if they invest in windows, doors 13 14 and insulation, they could actually curb their overall 15 energy efficiency by 20 percent, which would lead to a 16 smaller solar system on their roof, which overall would 17 be cheaper. So that's where we're going. And we're 18 really following two cities. The City of Berkeley and 19 Palm Desert are kind of moving ahead with that. So 20 that's sort of the main program the Mayor announced last 21 December. We got a lot of permicity from people who are 22 interested in what we are doing. We're hoping we can be 23 a model for the region and for the county as well. 24 So the City of San Diego sustainable practices. We've installed about 24 to 28 megawatts of virtual 25

1 power on City property. A lot of it is on top of 2 reservoirs for waste water treatment plants, police stations, rec centers. All this is financed without 3 4 really directly investment from the City. It's through 5 a power purchase agreement. So companies come to us, 6 some energy companies and some other companies, and say 7 they are willing to come up with the up front capital. What happens is the city is locked into a very -- a very 8 9 good rate for 20 years. So maybe you don't own the 10 equipment, but you have a very low rate over time which is a great way for cities to get investment in that 11 state. So we're really continuing doing that time, and 12 13 there is a lot of interest from a lot of different 14 companies.

15 In terms of our own trucks, trash pickup, we have 16 moved away and use now low sulfur diesel fuel as a way 17 to reduce carbon emissions. We're mandating that all 18 city facilities, and it's -- I think it has to be above 19 5,000 square feet, to be LEED "silver". That's a big 20 change. It's somewhat along with what Title 24 in 21 California, which is energy efficient requirements, 22 which is about 20 percent above the national average. 23 So that's something we're going to continue doing. 24 We're looking also at green buildings for the commercial 25 aspects and residential.

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1 And we also look at reclaimed water. We have two 2 plants in San Diego that basically take waste water, 3 treat it into a non potable water, but it can be used 4 for a number of purposes, and the area that we're 5 pushing for mostly is for industrial purposes, cooling 6 towers and things like that. The issue there is to 7 create a network. You need to have a dual piping 8 system. Very costly. Costs about a million dollars a 9 mile. So it is quite expensive. That's been the 10 longest process.

Before I move on, the two studies that we did, and 11 John mentioned the first one, the assessment study was 12 designed to give us a sense of what do we have in San 13 14 Diego in terms of Cleantech. And what we find out is we 15 have about 178 companies which fall under this venture 16 capital -- venture network list of -- it's very broad, 17 but we have a number of companies in things like energy 18 efficiency, renewables, recycling waste, and waste water 19 technology. A lot of it is a mixed bag of small start 20 ups. There are like two or three people, two 21 established companies, like the Qualcom, the ACIC, the 22 General Atomic. So we have to cater to all these 23 companies to be able to be responsive to their needs. So that was the main study. And it kind of gives a 24 25 sense of where we are. The benchmark study is looking

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1 at six cities: Austin, Texas; Boston, Portland, 2 Sacramento, San Francisco, and Seattle. And San 3 Francisco is looking at the whole Bay area, because it's 4 a very large area. And so far what we've found is these 5 are pretty much leading hubs for Cleantech, but what's 6 interesting is they are all pretty much developing 7 infrastructure for Cleantech, but it's sort of a fair 8 game at this point. Nobody has the silver bullet answer 9 of how to create these jobs. Austin, for instance. So 10 is -- Austin and San Jose, which is part of San Francisco, are really focused on energy generation. 11 That's their sweet spot. That's where they're really 12 focusing a lot of their efforts. Portland, very well 13 14 advanced in green building, green infrastructure, and 15 biofuels. Sacramento is trying to become the hub for 16 solar. So they all kind of are showcasing their own 17 areas. What we find, though, and it was interesting, a 18 lot of it, the incentive that it provides, it's a 19 mixture of state incentive coupled with local incentive. 20 So they're taking advantage of state incentives. Like 21 in California, we have the enterprise zone program. 22 It's a state program, but they are used in many cases to attract Cleantech companies. We've done that in San 23 24 Diego in some of the southern part. In LA, for 25 instance, they're using their 20,000 square foot

1 facility they're looking to build in downtown LA. The 2 funding is coming from redevelopment funds. So there 3 are all these ways to get capital into this market. So 4 the study has been useful.

5 From there, we're looking at -- we've developed a strategy to kind of help us manage it and figure out 6 7 where is the sweet spot for San Diego. I mean, are we 8 going to compete in all Cleantech? Probably not. There 9 are some areas that we're not going to compete. What I 10 think will be interesting for San Diego is to capitalize on what we have already. We have a strong biotech. 11 We 12 have a strong telecom industry. We have a strong aerospace industry and some of the other ones. 13 In 14 biotech, there's a lot of research in, obviously, 15 biofuels and bioconversions. So using enzymes to break 16 down cardboard and turn it to oil is actually something 17 that is potentially plausible. In telecommunications, a 18 low powered sensor technology is a huge market that is 19 being looked into. Green buildings and infrastructure. 20 So a lot of interest in there. So I think there's going 21 to be a lot of crossover with this industry. So we've 22 already seen that with a lot of companies that were 23 biotech and now are actually full of -- a company called 24 Verinium, for instance, which is actually a biofuel 25 research company and started as a biotech company.

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1 So in terms of green buildings, the City has this 2 cancel policy 900-14 that was developed in 1997. It has 3 an expedite permitting process for the developer. The 4 whole concept was, well, if you're willing to go use 5 some sustainable practices in the building of your 6 facility, you'll be given an expedite permitting 7 process. The problem with that process was a lot of 8 times the representative will say, well, we'll install a 9 solar panel system, and you would go through the 10 expedite permitting process, but the time people were actually building the system, it turned out they were 11 not building exactly what they were supposed to. It may 12 turn out to be a smaller system. So a lot of times, we 13 14 realized people were using the expedite services as a 15 way to get through the process quicker. So what the 16 ESD, Environmental Services Department who is 17 responsible for drafting this policy, we've made some 18 revisions to it requiring, you know, a little bit more 19 well defined plan in terms of what exactly you are going 20 to do as a sustainable energy and how much energy you 21 are going to save in terms of not only energy but water 22 as well. So that's something that's in the review 23 process. We're hoping that it's going to create more of 24 a clear understanding with the developers and hoping 25 that they will actually embrace more green practices as

they move forward.

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2 The California Energy Commission has recommended to 3 adjust Title 24 to become a net-zero-energy performance. 4 That's kind of the overall goal that the City's putting 5 for us, residential building by 2020 and commercial building by 2030. That only applies to new 6 7 construction. It's a daunting challenge. That's going 8 to take a lot of effort, given today's energy efficient 9 homes are very below average. Even though California 10 has Title 24, Title 24 is somewhat close. Today, Title 24 is about close to certified LEED. The new Title 24 11 will be closer to a silver level. But it's still a long 12 way to go. But it's an interesting part. That will 13 14 help us create demand. It is actually already 15 happening. People are already planning on developing 16 products that will target these type of areas. 17 The other thing that is really helpful in 18 California in terms of a government framework is called 19 AB32. It's the Global Warming Solution Act that was 20 passed about two years ago. It's been enacted this 21 year. It's a daunting task. The whole idea behind it 22 is to take 1990 levels and reduce CO2 consumption to a 1990 level by 2020. And then the Governor signed an 23

below the 1990 level. So what does it tell us? Well,

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executive order to have -- by 2050 to have 50 percent

1 this is great from a state perspective. That will give 2 us some -- at the top, it will give us some incentive 3 and pressure to get companies and government to change their habits. The 2020 goals, I think it's fairly 4 5 possible. Given today's technology, I think we could 6 get there. We have solar power, geothermal, all these 7 things are out there. The new materials, lighter materials, so on. The 2050 goal, it's so unknown. 8 Ι 9 mean, there -- I would think that there's a ton of new 10 innovation that hasn't been created yet. And that's where we're looking at really, supporting innovation 11 12 today to get that goal possible in the future. And that's where we're heading right now. A lot of the 13 14 scientists are saying to us that, well, in order to 15 achieve that goal, you would need to completely change 16 the way you build buildings and infrastructure, and, you 17 know, generate power and so on. And I think a lot of it 18 will come back to having -- instead of having power 19 generated far away, it will be generated closer to the 20 end user. And I think it's almost what happened in 1900 21 when power was generated locally. That's what's 22 happening here.

23 The next part is this program that we also launched 24 last year with UCSD, and what UCSD -- it's called the 25 von Liebig Center. It's basically a commercialization

1 center, and it was designed about six years ago, and the 2 whole idea behind it, well, there's a lot of great 3 ideas, great technology that comes from universities, 4 but hardly any of them are being commercialized. A lot 5 of tech transfer in a lot of universities are sitting on a ton of great ideas, but nobody is actually going б 7 through the books to figure out what it's actually worth 8 potential investments on. So the von Liebig was created 9 to be this vehicle to get these type of apply research 10 into a prototyping stage. So the whole idea is providing support for the precompanies. These are 11 potential technologies that -- they haven't formed a 12 13 company yet, but they have a technology that is being 14 validated that is potentially true, but they need some 15 proof of concept beyond the lab. So what we've done 16 here is we decided to say, well, why don't we sponsor a new trek. The von Liebig was focused on biotech, 17 18 telecom, construction materials, and Cleantech wasn't 19 really a trek, even though they've had Cleantech 20 products in the past for ideas, but they were never 21 listed in one trek. So what the City did at this point 22 is we created a special trek. We seeded a concept, but 23 we told them, we don't want to make it just UCSD. We want it opened it up to other universities. So we 24 opened it up to SDSU, which is one of the other small 25

1 research labs, and USD and these two are pretty much 2 coming from either a graduate student's perspective or 3 law students who can help us with that. So what we've 4 done is the whole idea is to provide funding early 5 stage. So we launched it last year. And this is a 6 little more detail about the commercial center. It's 7 part of the Jacobs School of Engineering. It's really 8 proving gap funding for projects, and it's really 9 competitive. You don't get the project unless you get 10 through a very conversant process. There's a technical review, there's an entrepreneurial part of that team. 11 So going through that process, if you're selected, you 12 13 don't get the full amount right away. You get it in 14 installments. You have to get through specific 15 milestones or specific design by the von Liebig Center, 16 and you also pair with an entrepreneur in residence, 17 somebody who's a serial entrepreneur who has the 18 experience of taking this company public. And what are 19 we providing here? It's mostly -- not the technology 20 evaluation. It's the marketability of their ideas. 21 It's sort of similar to the venture lab that you have 22 here. Is there a market for this and what price would 23 that be and how competitive would it be with other 24 groups.

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And this is the area that I want to mention why

1 we're focusing on this. So when I go back to AB32 and 2 this whole very conversant goal of 2050 to reduce 50 3 percent to a 1990 level, that's going to be substantial. 4 That's going to happen only with innovation. Innovation 5 has to be nurtured and grown. This chart describes where most of the time, you know, at the front end, 6 7 basic research is happening, then you have apply 8 research. But that's the area where this is the least 9 amount of money being put in because the risks are very 10 high. And, typically, angel funds, VC funds are not investing in that part. They're already investing in 11 the start up or later stage because they're looking to 12 recoup their investment. So what we've done here is 13 14 we've kind of looked at the value of that and said, we 15 need to help out here, create innovation at the bottom so that we can create more companies. And the idea 16 17 behind innovation is simple. Attracting companies, 18 especially Cleantech companies, to come to San Diego and 19 other parts, it is a very expensive process. It will 20 take a huge amount of potential land, you know, that you 21 may have to give away, tax that you have to reduce. 22 There's a story of a local solar panel manufacturer 23 based in San Jose that has been lured to Las Vegas, and the total package for them, including land and taxes, is 24 almost 43 million dollars. So a substantial amount. 25

1 And this company is going to move. For us, it's very 2 difficult to potentially play a strong role in that. So 3 what do we have left? We have the idea of if we nurture 4 innovation and get them to go through every process, and 5 only because one of them, once they graduate from there, 6 they will go to either Connect or some other group that 7 we have out there to get them to the next level of 8 funding, most of these companies remain in San Diego. 9 Of all the companies that were actually funded through 10 the von Liebig, I think they've got 76 solicitation over a six year term, they have created 18 companies. And 11 out of the 18 companies, 98 percent of them remain in 12 San Diego. And from our standpoint, that's where I 13 14 think we could potentially get a lot of growth in the 15 future. Not that we're not getting interest from 16 foreign companies. We've helped a Spanish company 17 called Silicon Renewables, which is about a 340 million 18 Euros company. It's only seven years old, it's based in 19 Valencia, Spain. They decided to come to San Diego, and 20 the main reason is because of the California Solar 21 Initiative, which requires a minion roof in the next 10 22 years and because of all the substantial environmental 23 rules of AB32. So they thought this was a perfect place 24 for them to do market. So there are special cases where 25 companies will come, but in some instances, it's

actually a difficult challenge. But we are working
 constantly with companies and taking advantage of what
 they have.

4 The one benefit that we have in San Diego, too, 5 that I'd like to mention is the proximity to the border 6 of Mexico, which is a huge advantage for us for 7 potential manufacturing. Some components can be 8 manufactured in Mexico and some can be done in San 9 Diego. And we're actually looking at one particular 10 company from Sweden who has something like a -- in a word, a plug-and-play type of hydrogen technology, and 11 the discussion was that some of the components can be 12 made in Mexico, the balance in San Diego, and R&D taking 13 14 place in San Diego as well. So that's an interesting 15 aspect. So the name of that program with the von Liebig 16 is called the Cleantech Innovation Challenge. So we 17 really open it up only to faculty. So we're not opening 18 up to any outsider, no grad student at this point. 19 We're hoping to expand it over time, but the main goal 20 was to really open it up to local faculty and teach them 21 and kind of show them that there is opportunity in the 22 Cleantech space. So we were seeding \$140,000 for the 23 initial start. We were fortunate enough to get Qualcom to give us another hundred K, so right now we're looking 24 25 at expanding that process, we're talking to a number of

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1 corporate sponsors, whether it's a solar manufacturer or 2 local utility companies who can have a vested interest 3 to have this program continue over time. So in 2008 we had three recipients. So we've received 11 applications 4 5 and selected -- we'll basically review all of them. So б we had a technical team. It was a two-day event. We 7 have a technical team and a interpreter team. And out 8 of that, that's the three that were selected. So I'd 9 just like to let you know, these are very early stage 10 technology. You are talking about things that could take probably five to six years to really go to market, 11 12 I believe. Maybe some might be less. It really depends on the market. One of them is a new solar technology 13 14 using quantum wells. So the whole idea behind why do we 15 have -- the typical solar panels takes photons converted 16 to electrons, and then you use it as power. When you do 17 the conversion, you have an energy loss. And this guy 18 is a genius. All his research has been in fiber optic. 19 Why don't we do the same thing, keep it as a photon, you 20 could either convert it into light directly or convert 21 it back into energy. So he's got a concept. He's 22 working with a team from USD Alliance and USD to -- and 23 these are groups of grad students and law students that 24 are going to validate his idea and see if there's a 25 market and what price would that be at. So that's going

1 to be the funding for the first year. And then the 2 other one is converting waste heat to electricity. 3 There's a lot of radiant heat being created, whether it's in the car and so on. So this guy has being using 4 nano tubes to do that same thing. And the last one is a 5 6 gentleman from SSU, a biologist, who came up with a more 7 efficient way to extract biodiesel from algae. And the 8 extraction part of algae production is one of them that 9 -- it's the unknown. We don't know whether that's going 10 to be the most expensive part or the least expensive, but we funded this idea. So all these are very early 11 12 stage. What we're hoping next year we're going to have, the second year, we're going to bring them back, have 13 14 them kind of give us an overview where they are and at 15 what stage, if they have been successful through this 16 early stage prototyping process, and when they're 17 successful, we're hoping to compare them to the next 18 level, which might be VC funding or strategic funding 19 from a corporate investor or so on. So that's sort of 20 the guinea pig at this point. So we don't know what 21 will be the outcome, but the goal here is to help create 22 innovations at the local level.

23 The last thing I would like to talk about is a 24 thing called biomimicry, and I don't know if people are 25 familiar with biomimicry at all. It's been around since

1 the 1970's. Biomimicry is really two things. So bio 2 meaning life, mimic meaning to imitate life. Here's an 3 area that we think has huge potential for us. And nature, in a nutshell, had 3.8 billion years of 4 5 evolutions, right? Of all the species and plants we 6 have today are the most probably the top of the top. 7 The only reason they're here us because they survive, 8 adapt to life. What biomimicry does is looking at 9 life's answers to today's problems. So what we've done 10 here is create a partnership with the San Diego Zoo, which has been around for sometime, and do research in 11 32 countries around the world so they have the wealth of 12 knowledge and they have something like 4,000 plants and 13 14 animals at the wild animal park and at the zoo, and we 15 also partnered with the Biomimicry Institute and Guild, and the whole idea is to create San Diego sort of a 16 17 natural hub for biomimicry. So we're hoping people will 18 come to work with the Guild Institute and the zoo, and 19 in doing so the local companies may see inspiration in 20 creating new products. And there are about a hundred 21 products out there, and I will be happy to talk to you 22 some of them. But this is a very interesting area. It's 23 sort of 10 years down the line. I mean, we're talking 24 about something that could be unique in the future and 25 that's what we're sort of betting on. So the

collaboration is with the zoo. If you're interested to learn more about it, it's a lady, her name is Jane Banius. She's the one who wrote that book about biomimicry in the early 1990's who kind of said, nature has all the answers. Nature is the most efficient way to generate power.

Today, solar panels, invented late '60's, early 7 '70's, the efficiency rate in a silicon panel is about 8 9 20 percent, depending who you talk to. They say 20 10 percent, right? So that means every photon that actually hits the cell, only 20 percent actually come 11 into electricity. If you look at photosynthesis, it's a 12 hundred percent. So there are companies out there 13 14 trying to recreate photosynthesis as a new form of solar 15 panels.

16 Materials. Some form of seashells turn out to be 17 stronger than the most advanced concrete that we have 18 today. So the list goes on and on and on, and what 19 we're thinking here is really two areas. What we want 20 to help is education site. In order to get people to 21 look at biomimicry, we need to kind of reintroduce 22 biomimicry and biology at the early stage. So we're 23 looking at K to 12 high school certification programs and four year degrees. And the whole idea is an 24 25 engineer like those two engineering schools probably

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1 does not have as much exposure on biology and other 2 aspects. And I think what we're hoping is coming up 3 with programs that will -- elective courses that will 4 help them kind of diversify the skill sets. And we're 5 actually having our first symposium on biomimicry on 6 education in October in San Diego. It's going to be a 7 two-day event. We're going to have a number of faculties from local universities, and we'll be 8 discussing specifically about curriculum. There's a 9 10 local charter school called High Tech High who actually embrace that model and are pulling together with the 11 help of the zoo, which does a lot of education, a 12 biomimicry kind of course for kids. And it's going to 13 14 be interesting because they're going to be asked to do 15 an evaluation of San Diego in biomimicry and what are 16 some areas that are being untapped in terms of nature's 17 design that we could be using for solving our own 18 problem. That's the other aspect is the 19 commercialization aspect, and that's where we want to 20 partner with large Fortune 100, 1,000 companies and 21 invite them to come to San Diego to come to the zoo to 22 meet at a table with the folks from biomimicry and discuss their problems. There's a number of companies 23 24 that are looking to reduce waste, reduce harming chemicals, remove plastic. All this is possible and 25

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1 potentially can be answered through biomimicry, and the 2 whole concept is bringing what they call designer of the 3 table. It's a combination of engineers, chemists, 4 biologists, zoologists, and they all discuss together 5 what are some of the possibilities there. So some of 6 the examples. One of them is the most common one being 7 talked about is the termite mouths. It's a self cooling 8 system. These mouths are all over Africa. The 9 temperature could be a 105. Inside, the mouth is always 10 the same temperature. Well, how does that work? So they discuss -- they break it down and they realize that 11 it has a natural flow of air, so cool air will come from 12 the bottom part and be carried up, and it would create 13 14 this constant flow. Probably a dozen buildings around 15 the world, one especially in Zambia, has been designed 16 to follow the same model, and it has no air conditioning 17 systems. In some parts of the world, it's very, very 18 warm, and it's because of that whole flow system based 19 on the termite mouth. Qualcam bought a company in the 20 Bay area who's looking at the butterfly. Nature is, per 21 se -- the most prominent color in nature is brown. The 22 butterfly technically is brown, but why do we see all 23 these colors. Because it has microscopic, if you will, 24 mirrors that are built in all over the place and reflect 25 light, which give you the impression of a spectrum of

1 light. So they went in and said, can we imitate that. 2 And they did. And they immediately assist them for 3 screens that do not require back light. So you could be 4 in bright sunlight and be able to see a screen. So 5 that's the whole concept. The other one that's 6 interesting, too, is the lotus flower. The lotus flower 7 tends to grow in areas where it's very muddy. But the 8 flower itself is always clean. So a German company 9 looked at it and said, how does that work. So they 10 looked at the molecule level and realized it had some sort of hydrophonic properties to the plant. It 11 designed a paint like that, and it's -- I can't remember 12 the name of the company, but basically, you apply the 13 14 paint, and when it rains, it washes off the wall. So 15 the dust and all the stuff that gets built up on the 16 wall gets cleaned up.

17 I have an additional product here that I thought 18 will be of interest to you guys. This is a Speedo 19 swimsuit. It was designed based on the shark. The 20 shark is the most efficient animal in the water in terms 21 of speed. That was actually banned at the last Olympics 22 because it would give a small edge. We're talking about 23 a quarter of a second, but a pretty amazing model. 24 This is the bullet train in Japan. When it came 25 out, great idea, great model. The problem with the

1 bullet train is everytime, I think -- everytime it went 2 through a tunnel, there was a sonic boom that was 3 created. So that was very inconvenient to residents 4 around it. So they say, well, why can't we do this. 5 How can we figure out a way around this. And one of the 6 designers of the bullet train was an avid bird watcher, 7 and he looked at the -- I think it's called the Kingfisher, and that particular bird, everytime he would 8 9 dive into the water, doesn't make a sound. Studied the 10 actual structure of the bird. And if you look at the train, it has some of the same -- and now the sonic boom 11 is not apparent anymore. So that's pretty amazing. 12 Tape, right? We all know tape, but do you all know this 13 14 guy? The gecko. I mean, this is a pretty amazing 15 animal. I mean, it has millions of microscopic hairs at 16 the bottom of his feet, and these hairs are pretty much 17 what allows him to stick to surfaces. You try to remove 18 a gecko, it has 250 pounds of pressure. So not only it 19 sticks, but it's pretty solid. So a company went out 20 and developed a new type of adhesive that is, by the 21 way, fully biodegradable, has no chemicals and so on.

22 So to kind of end up, this last slide is biomimicry 23 and all the other aspects that we are doing is an area 24 that has a lot of potential for us in trying to create 25 the next generation of ideas. Nature has done it all

1 already for us. I think it's just a matter of looking 2 back and see what we can use for it. 3 Questions? 4 MS. HOPCRAFT: My name is Cynthia Hopcraft. I'm 5 with Eco Cleaning Solutions, and there is a product now 6 existing that's patent pending, and basically it does 7 have capabilities for housecleaning buildings, 8 sidewalks, commercial buildings, hospitals, and 9 everything. I would think that would be something we 10 could put into this program. MR. CHIRAZI: Yes. Definitely. 11 MS. HOPCRAFT: How could I get with you after the 12 13 meeting? 14 MR. CHIRAZI: Come talk to me. I'll be happy. But 15 there are about, last time I counted, 150 inventions 16 that are fully truly nature based. 17 MS. HOPCRAFT: Right. And this one is. 18 MR. CHIRAZI: It's a growing category. I mean, 19 there are --20 MS. HOPCRAFT: Sure. 21 MR. CHIRAZI: The State of California adopted a 22 green chemistry kind of model even though it's still 23 kind of early stage that would require -- you know, force manufacturers and a lot of chemical manufacturers 24 25 to reduce their chemical contents and look at, you know,

1 non invasive type of agents.

2	MS. HOPCRAFT: The active ingredient in this is
3	titanium dioxide, which is a natural mineral. So it's
4	in many products already that we use everyday, so I
5	would think we'd be right in the ballpark.
б	MR. CHIRAZI: Definitely.
7	MS. HOPCRAFT: Thank you.
8	MR. CHIRAZI: Just to give you a heads up, some of
9	the projects I mentioned, these are a handful of things
10	that we are doing. We are doing other things as well,
11	but I thought I would present those. But as I mentioned
12	earlier, this is sort of like a work in progress. I
13	mean we are probably by July, we'll have a finalized
14	king of strategy plan to figure out exactly which
15	industry we're going to be fostering and going after,
16	and all of it as has to do with the branding aspect
17	also, which I haven't talked about.
18	MR. LEWIS: Oh, you're up next, Carol Ann. Go
19	ahead.
20	MS. DYKES: Carol Ann Dykes, University of Central
21	Florida, business incubation program. We'll have a
22	chance to talk more tomorrow, but as I listen to your
23	presentation and all the assets that you have to work
24	with in San Diego, it's very similar to what we have
25	here in Metro Orlando and Central Florida with the

1 university and the companies. The piece we don't have 2 is the gap funding. That's the magic phrase that we all 3 talk a lot about and have struggled with. You've done 4 some interesting things in addressing that with the 5 foundation funding, Qualcom, the City. I mean, our 6 local government's incredibly supportive, but what are 7 some suggestions you have to get local industry 8 involved, and the foundation, I don't know if they are 9 looking to possibly fund other places, they're probably 10 local to San Diego, but what are some suggestions you have for us to address that issue. 11

MR. CHIRAZI: I think one of them is to really 12 engage -- I think this symposium is the basis for it --13 14 is to engage the local companies, whether they're 15 Cleantech or non Cleantech companies. By engaging them 16 in showing that there is potential for job creation and 17 that the government is really behind it, that's where 18 I'm going with the Cleantech innovation challenge. 19 We're not going to be able to seed this process for the 20 next 10 years. We're hoping that the corporate world 21 will take over and see that this really is an advantage. 22 I would definitely find a way to engage the corporate 23 world. Now, there's a number of grants that could be --24 especially from the stimulus package, some of the 25 unknown. There might be some money there. We're

1 looking at the same thing. And I think that's -- the 2 best way is to kind of -- what's ideal, I think, is to 3 make the general public -- there's a value added if 4 you're going to do these type of programs, that they may 5 not provide direct economic benefit today, but they will 6 in five, six years down the line. And I think you need 7 to create the nest before you can move on. And I think 8 that's what that foundation -- it's almost like tapestry 9 building. John and I talked about it many times. You 10 need to have some of the traditional economic development directive in terms of land acquisition and 11 12 assistance, permitting assistance, and so on, but you also need to nurture innovation at the start. 13 That's what this is all about. This is a discussion that needs 14 15 to be, you know, repeated over and over. I mean, it was something that -- it took us almost a year to get that 16 17 Cleantech innovation challenge up and running just 18 because the number of institutions that were involved 19 and the complexity involved behind it.

20 MS. CHADWICK: My question is related to that one 21 because those of you who know me, that is my personal 22 kind of passion. So, as we chatted about last night at 23 dinner, the investment size for each of those projects 24 was about \$55,000.

25 MR. CHIRAZI: Yes. I did not mention it. Yes.

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1 MS. CHADWICK: Yes. And I did want to clarify the 2 funding from the City, the hundred K that's coming in, 3 that's for current, correct? Or is that a one time 4 grant?

5 MR. CHIRAZI: That was a -- to be honest with you, 6 that was a one time issue at this point, but I'm working 7 on getting the City to have a special line item for 8 Cleantech in general programs. Because that 140,000 9 came from an EDC contract that we have, so technically 10 this year we don't have funding, but I have a proposal on the table to not only allow funding for this for the 11 next three years, but also funding for the other 12 programs. That's really the battle that we're having 13 14 because the fiscal situation is pretty tough. 15 MS. CHADWICK: So a couple of kind of thoughts. 16 First of all, if it's just one time, then it's very

17 limited, but even if it's recurring, 55, 60, 70K --

18 MR. CHIRAZI: It's not enough.

MS. CHADWICK: -- for a project that early in the
development cycle is just a drop in the bucket.

21 MR. CHIRAZI: Definitely.

22 MS. CHADWICK: So my question to you is there's a 23 big gap between a \$55,000 one time grant on a research 24 project and the time when a company would be potentially 25 attracted to angels or a VC. So do you guys have a

strategy or have you put any thought into what you're going to do to address the capital needs going on after that initial challenge is given?

4 MR. CHIRAZI: That's a good question. What we're 5 doing right now is the next year funding, we're hoping 6 to raise it to a hundred K. And we are hoping that we 7 could get more corporate sponsors and maybe do less 8 projects, maybe only award two or three, but they will 9 have a substantially higher amount of funding. The next 10 thing we try to do is to try to pair them with some other forms of grants. So we're looking at other ways 11 12 to get the small business grant and so on, and we're trying to find ways to get additional funding so that 13 14 when they get the prototyping issues, when they graduate 15 from that program, they quickly move on to the next one. 16 MS. CHADWICK: But you are going to manage those 17 programs for a while.

MR. CHIRAZI: Yes. And we're actually partnering with a group called Connect and some of the other small groups, and Cleantech San Diego was also newly formed about a year and a half ago, which is also going to become -- but it's the unknown. It's the biggest question that we haven't really found the silver bullet for that.

25 MR. BRUDERLY: Hi. Dave Bruderly. I'm a

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1 consulting engineer of a company called Clean Power 2 Engineering, and we're focused on life cycle types of 3 issues and trying to find solutions that can work in a 4 marketplace in the energy sector, which is highly 5 subsidized and skewed towards non sustainable energy 6 systems at the moment. The question would be one in 7 general. How do you define green and how do you -- what 8 kind of criteria do you use to make decisions on what 9 are labeled green and where investment goes? And how do 10 you handle the trade offs, because I noticed you had ultra low sulfur diesel up there as an example of you 11 use that versus natural gas, dual fuel natural gas in a 12 bus engine, I guess, or a diesel engine because it 13 14 produced slightly lower emissions of nitrogen oxide. 15 But you did that at the trade off of going to a high 16 carbon fuel, which is diesel, and especially a highly 17 refined diesel, versus some much lower carbon fuel, 18 which is methane, which takes you on a transition to a 19 hydrogen type of fuel which is zero carbon. And, you 20 know, you made the statement that we're going to have a 21 hard time meeting 2050 goals unless we completely change 22 our lifestyle. I quess I disagree with that because I 23 think we do have the technologies to really achieve 24 significant reductions in carbon emissions on a life 25 cycle basis if we simply have the policy in place that

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1 provides the economic stimulus to make those -- the 2 investments in the right direction. So how do you --3 you know, you are taking a longer view here in terms of 4 biomimicry and mimicking nature, and one of the key 5 notes of nature is species diversity. So how do you 6 address these short term trade offs versus the longer 7 term kind of criteria, where the nox is a short term 8 trade off versus carbon which is a longer term trade 9 off. How do you propose to kind of direct investment in 10 public policy in a direction so we get the investment to focus more on the long term solutions, which our 11 economic system, you know, doesn't reward long term 12 thinking, it rewards short term thinking. So how do we 13 14 change this fundamental paradigm in a way that we can 15 get venture capitalists to invest in the long term 16 rather than the short term and meet these sustainability 17 qoals?

18 MR. CHIRAZI: I agree with you. I think it's a 19 good question. I think part of is, the answer is 8022 20 in that this legislature kind of evens the playing 21 field. It's saying everybody has to reduce their carbon 22 emissions. You know, that's the standard. The other 23 aspect that is missing, and we look at other countries 24 like Sweden or other parts, when we're going to have at 25 a federal level a cap and trade system, that's going to

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1 signal the financiers and so on that there's going to be 2 a price for carbon. Therefore, there's a way --3 abatement technology to reduce that carbon. I think right now we're kind of in an administration that 4 5 there's a lot of short cuts. You know, we could make 6 short improvement over time, but you're right, the 7 biggest transition is the one that takes the longest 8 time. So I think everybody is looking at us, 9 California, in terms of how successful this AB32 is 10 going to be. Are they going to be able to implement it and are we going to be able to secure long term goals 11 12 instead of having a temporary fix. Are we going to move away from, you know, hydrocarbons and really moving into 13 14 maintaining hopefully hydrogen and so on. That requires 15 a step, a pretty incredible change.

16 California has the hydrogen highway proposal idea. 17 We have, I think, three stations. In my mind, I think 18 if you look at moving forward in the next 20 years, it's 19 going to a combination of all those things. There is no 20 silver bullet into the technology. This is not going to 21 a hydrogen technology a hundred percent. I think it's 22 going to be a combination of having technology in terms 23 of engines, electrical cars, different variety of energy generations, so on. So I think -- I don't know if I 24 25 answered your question, but I'm expecting the AB32 will

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1 help us finalize. And actually I'm hoping that the 2 Obama administration and new Congress will work over the 3 next year and a half on a nationwide cap and trade 4 system, which actually will signal the other markets 5 that the United States is ready to -б MR. BRUDERLY: An economy wide cap and trade, not 7 just smokestack. 8 MR. CHIRAZI: Yes. 9 MR. BRUDERLY: Just to give you some positive 10 feedback, the City of Gainesville last week approved our utility to do a feed in tariff, or a renewable energy 11 12 payment, and they're paying 32 cents a kilowatt hour to 13 private sector investors and to photovoltaic systems who 14 go on either green fields or on rooftops. They had set 15 a cap of 4 megawatts for the first year, and they've 16 already got at least within -- it doesn't even go in 17 effect until March 1st. We've already got at least one

this. We've had people coming from all over the world asking to participate. And, basically, the way this is being funded is with a tax on all the consumers who buy electricity from GRU. And it's about a 1 percent right now tax on -- a fuel adjustment charge. So it's not called a tax, it's called a fuel adjustment charge. But it works. And the key is getting the money into the

megawatt committed. So there's a tremendous interest in

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local community so it stays in the community and the money doesn't get -- that we tax ourselves to do. We don't want to see it exported to San Diego to support your entrepreneurs. We want to support entrepreneurs here.

б MR. CHIRAZI: That's the same idea with the clean 7 generation program for -- obviously, it's all residential right now for solar, and also we want to 8 9 move into energy efficiency and then water conservation 10 technology through this funding mechanism that will allow us to basically add a super lien on your house. 11 That's when you're going to pay it off over 20 years or 12 so. I'm hoping that's going to be -- we're doing it at 13 14 a residential level right now, but we're moving into 15 commercial, especially into small commercial, and I 16 think there's a lot of untapped areas, especially in San 17 Diego. We have so much sun. And the other issue in 18 California is we have three major utility companies, and 19 the public utility that we have in San Diego is the 20 smallest of the three, and in some instances they are 21 sometimes dragging their feet when it comes to taking on 22 these new ideas because they're --

MR. BRUDERLY: The major investor on utility in
this state is opposed to the feed in tariff concept,
even though they're the largest renewable energy

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1 operator in the entire plant. They're opposed to it in 2 their own home state. We have some hypocrisy or 3 something going on that is basically holding back progress in the State of Florida. 4 5 We appreciate you coming and sharing your thoughts. Thank you. 6 7 MR. CHIRAZI: Thank you. MR. BLAND: Hi. I'm Tom Bland, AquaFiber. You 8 9 just about answered my question. I would just ask, 10 where are we in cap and trade in the nation? You say the Obama administration will be looking at it over the 11 next year, year and a half. Do you have any specifics? 12 13 MR. CHIRAZI: I don't know much, but I think from 14 the people that I have talked to, we're hoping there 15 will be something in a year, year and a half in terms of 16 -- we don't know what the formula might be like. The 17 biggest question is, are we going to give away those 18 allowances. Are we going to charge for it from the get 19 go. That is one of the biggest sticky points. Are we 20 going to give older industries who have a higher 21 marginal cost a break saying, okay, we're going to give 22 you X amount of allowance, and then eventually after so 23 many years, we're going to have to buy the rest, or are 24 we going to make everybody buy from the get go. That's part of the sticky point. But I think they're looking 25

at California to see how well this is going to -- I 1 2 mean, this is the year. This is 2009. This is the year 3 we're going to see how this is working, so --4 MR. BLAND: Thank you. 5 MR. LEWIS: Jacques, it's great to have something 6 like a sister city that we can sort of go forward 7 together with. But one of the differences between 8 Orlando and San Diego is that we have one economic 9 development commission, and they're actively involved in 10 supporting clean technology and our efforts. We have one Cleantech initiative at the present time with our 11 Cleantech study and the symposium series. In San Diego, 12 13 there is the San Diego Economic Development Commission, 14 the North County San Diego Economic Development 15 Commission, the South County San Diego Economic 16 Development Commission, the City of San Diego Cleantech 17 Program, and at least one other non profit organization, 18 Cleantech San Diego, that's actively involved in 19 Cleantech. There seems to be a lot more players in San 20 Diego than there are here, and I'm sure there are some 21 challenges to that, but there are also some benefits 22 probably also. Can you talk a little bit about the 23 challenges and benefits from having so many 24 organizations that you have got to work with? 25 MR. CHIRAZI: Sure. Yes, it's true that we have,

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1 obviously, the EDC, and then we have the North and South 2 County EDC. We also have Cleantech San Diego, which 3 kind of is presenting -- actually, they want to be the 4 global trade organization, but right now they're 5 starting with the Orange County and San Diego area, and then we have the City, and then every cities have their 6 7 own kind of Cleantech, per se, programs or issues around 8 that sustainable clean development, and then we have 9 about, last time it was mentioned to me, about 170 10 nongovernmental organizations that are focused on sustainability, which may include Cleantech and public 11 health and so on. So, yes, in a sense it creates a 12 challenge because this is almost an overwhelming amount 13 14 of knowledge and potential sources that we can tap in. 15 So there is a little bit of a turf battle sometimes. 16 And there is a little bit of duplicates. A year and a 17 half ago, two organizations put together a green 18 building conference a week apart from each other. 19 They're going after the same speakers, they're going 20 after the same funding. So one of my roles is to try to 21 get people to create one voice for the region. And the 22 main vehicle that we're using right now, obviously, from 23 the Mayor's perspective, is to use him as the 24 spokesperson and kind of the leader to get people to 25 embrace this model, but also use Cleantech San Diego as

1 kind of another vehicle for doing that. So the 2 challenge is really too much interaction and difficulty 3 to raise funding because there's a lot of competing 4 issues. And the benefit is having the right people at a 5 table and get things quickly, you know, rolled out. I 6 mean, once you have an idea that has been vetted and 7 people find it successful, then it's very easy to get it 8 funded and move forward with it. So that's one of the 9 advantages, but the biggest problem probably right now 10 is too many interests and not enough focus. And I think that's one of the challenges that we're facing. 11

MR. LEWIS: I think those comments will be very 12 helpful to us as we complete our first study, complete 13 14 the symposium series and figure out how to go ahead from 15 there in ways of organizing things. You'll see also I 16 want to mention that when we start talking about ideas 17 in a few minutes for promoting Cleantech, we borrowed 18 some of the ideas from San Diego, and I admit that to 19 Jacques, but I think we've seen today there are some 20 other ideas that we didn't consider yet, and they're 21 also great. One of the things I think that we've seen 22 this morning that perhaps we haven't fully appreciated 23 before is the strong relationship that can exist between 24 Cleantech and biotech, and we're trying to develop our 25 biotech sector also. The examples you gave of the

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relationship between the two just really helps you to
 remember that strong relationship. So I think that's a
 whole new area that, you know, we need to consider as we
 move forward.

5 MR. CHIRAZI: There's a lot of convergent of technology. That's kind of my way of looking at it is, 6 7 you know, cleantech as people describe it, to me, my best way is the age of transformation. It's not an 8 9 industry, per se. It's not a sector. It's just 10 something that's going to transform every single industry, and some industries will just come out better 11 and more cost effective in providing the services. As 12 to what I believe, it's really happening now, some 13 14 industries are further along than others. But the best 15 example as an analogy of all this is, look at the IT 16 industry. Back 20 years ago, 25 years ago, a lot of the 17 jobs, a lot of the -- even the ideas we never thought 18 of. I mean, we didn't know, you know, that we could 19 have, you know, a webmaster or some kind of networking 20 administrator, all the things we do today, you know, the 21 Web 2.0. It's sort of the same thing happening there. 22 And even though the IT started with the financial 23 sectors and moved on to all the -- the last one right 24 now that is being pushed for right now is the medical 25 sector, the healthcare. Cleantech is sort of going

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1 after all them. And the area that I think people are 2 putting the most attention on right now in terms of all 3 these cities is energy generation. Anything along 4 energy. Because energy is the biggest component to 5 economic growth, right? You need -- for every amount of 6 -- you know, of oil or whatever you use as an input, 7 that creates X amount of GDP. And that's sort of the idea, to reduce the energy intensity so that we're able 8 9 to do more with less.

10 MR. LEWIS: Very good.

MR. SNAITH: Just very quickly, thanks for coming 11 to visit us. The role of government and legislation in 12 California, obviously, is a key driver in a lot of 13 14 what's happening and what's going to happen. How 15 important is that, would you say, to the evolution of 16 Cleantech, and what have you seen in those other cities 17 in terms of the benchmark? Are they all states with a 18 sort of progressive policy that stimulates a sector? 19 And are there elements of Cleantech that don't rely on 20 government imposing certain caps or legislation?

21 MR. CHIRAZI: That's a good question. I would say 22 the short answer is, I mean, in California, everything 23 is driven by the policy. I mean, it's the AB32, the 24 green building standards, all these are kind of the main 25 agent. And I think for what I've seen what is happening

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1 in other states, it's also coming from -- either from 2 the municipalities or the state level. But they're the ones moving forward. And what they're doing, per se, I 3 4 think is -- like Portland is a good example. Portland 5 was really on the forefront of sustainability 15 years 6 ago, almost 20 years ago. They have the most amazing 7 infrastructure when it comes to the way they design their cities. I mean, so I think that was a perfect 8 9 segue into getting into that Cleantech space. They're 10 using the sustainability goals to create a Cleantech sector. That's what Portland is on the forefront of, 11 green buildings. They have the largest amount of green 12 buildings being designed there. So is biofuel as well. 13 14 They're pretty successful. But in my mind, I think, 15 like any other areas, when you look at international 16 studies, it's only when the government kind of -- it's 17 almost a mixture of carrot and sticks. You have to have 18 some kind of incentives, but you also have to have some 19 kind of control mechanism and the regulatory in the 20 mandate as the way to go.

The problem we're facing in places like San Diego is what if we want to be the greenest city and have strict mandates for green buildings. That could have an impact on potential of becoming less competitive for -compared to other cities in terms of attracting

1 companies. So there's a lot of reluctance, especially 2 from the Mayor, to, yes, we want to be a leader in that 3 space, but we want to take small steps. So what we're 4 doing is almost like what the state is imposing us to 5 do. We'll try to be slightly a notch higher or a notch 6 lower than that, and then having kind of a process to 7 move toward that area. Some people will say that we're 8 taking too long, so -- because if you look at the global 9 warming situation, if global warming was the main 10 purpose -- I mean, we're about 350 parts per million of CO2 in the atmosphere. I mean, there are -- I think the 11 threshold is 400, 450. Beyond that, we don't know what 12 -- the climate models at that point are pretty much all 13 over the place, so that's what we're getting from the 14 15 scientists from the Scripps University. So there's a 16 little bit of a hurry in terms of what we need to do 17 today, so.

18 I'd like to thank you all. It was a pleasure to be19 here.

20 MS. CHADWICK: Thank you very much, Jacques. At 21 this point, we're going to take a 15 minute break. 22 While you are out and about networking, see Christa or 23 Jacques over at our badge table and make sure you pickup 24 a form which is going to be the form for the input that 25 we're going to be asking of you in the next portion of

1 the agenda.

2 (A break was taken from 9:35 a.m. until 9:50 a.m.) 3 MS. BITTMAN NEVILLE:. Good morning, everyone. I 4 hope that you have already determined that you are glad 5 to be here, and, again, we thank you very much, Jacques, 6 for taking time and coming from San Diego to share with 7 us.

I'm Nyda Bittman Neville. I am CEO of TNB 8 9 Consulting Group, and our firm is like a magnifying 10 glass. And what we do is bring focus in the areas of marketing, communication and image to our clients here 11 in the United States, Canada, Australia and Europe. And 12 what we do are three things. We help our clients to 13 14 market themselves effectively and identify the drivers 15 of choice, what makes you the company of choice. We 16 help them to communicate efficiently but internally and 17 externally, and help to establish then the image and 18 brand that they so desire. It's my privilege and honor 19 to be with you today to help facilitate, because the 20 real purpose of the rest of this morning and this 21 networking and brainstorming session is to get your 22 ideas to those 10 ideas that we are going to present. 23

Now, in the first two symposiums, we learned about
what Cleantech is, and we saw again that definition this
morning which I found quite interesting, myself. How

1 important it is. Something about the organizations and 2 the entities important to growing Cleantech in our own 3 community. And something about the Cleantech companies 4 that we already have here in Metro Orlando, both large and small. This morning, we heard the details 5 б surrounding one of the premiere Cleantech initiatives in 7 the nation coming to us from San Diego. Now, we'd like 8 to turn our consideration to some of the ideas for 9 growing a Cleantech sector right here. There are dozens 10 and dozens and dozens of different ideas being implemented and thought about across this country. So 11 the group took painstaking effort to identify 10, and, 12 of course, you heard John mention that a little earlier. 13 14 So they've selected 10 ideas that represent the range of 15 what is being implemented, and what we want to do is to 16 get your reaction. This isn't necessarily a Q&A, but it 17 is more of gaining your input through several venues. 18 First, as we go through each one, as Marielle presents 19 each one of the 10 ideas, after she has shared the key 20 points with you, then I'm going to open that up for you 21 to step over to the mic, just as a few have already done 22 this morning, stating, if you will, your name, your 23 organization or your company, and then what do you think 24 about the idea that has been presented. Now, one of the 25 things that we must all keep in mind is that this is

1 just a broad brush. This isn't down to the details. 2 This is just a very broad brush of each one of these 3 ideas. And the things that I'd like for you to think 4 about, we also heard John mention them this morning. 5 Which of these ideas makes some sense to us here in 6 Metro Orlando. Which of these ideas seem more important 7 possibly than others. And what ideas seem less 8 important to you. What do you have to say about each one of the ideas. And, as you look down your survey 9 10 sheet, you have a listing of all 10 of those ideas, you may look and say, this is where my passion is and I want 11 to discuss this. And that's exactly what we hope that 12 you will do. So as she presents each idea, if that's 13 14 one that you do want to make a comment on, I ask that 15 you move out of your seat, across the aisle. We know we 16 have to kind of sort of climb all over one another in 17 order to get over there, but there is a purpose, because 18 we want to capture not only your name, your company or 19 organization, but we also want to make sure that we 20 capture that in written format as well. So it is 21 important that you step over to the mic and you speak 22 clearly, if you will, and I will always say to my 23 clients as we are presenting any idea, be clear, concise, and compelling. And because as we know we've 24 25 only got a short period of time and we will allot one

1 minute to each individual. I'm going to be assisted by 2 Adam. Raise your hand, Adam. And when I give Adam this 3 little sign, he's going to tell you, thank you very 4 much. And if you'll finish your sentence, we'll 5 appreciate that. You'll get used to him saying that. 6 Pretty soon, we won't even have to do it. As we finish 7 that last five minutes, you will hear this sound. That 8 will be the end of that idea. She will present the next 9 idea, and we'll go through, because we may -- I may look 10 up and I've got half the room over there standing in line. We'll know that we won't get to everyone; 11 12 however, we have two additional ways to capture your information. The second is, as we finish with all 10, 13 14 if we still have additional time before the open forum, 15 I'll go back and identify the questions that I noticed 16 -- or the ideas, rather, where individuals were still 17 standing and did not have the opportunity to speak. So 18 I'll go back and pick those up and allow those 19 individuals that chance to speak. Always remember that 20 on the backside of that survey, which we'll ask you to 21 complete and hand in before you leave, plenty of white 22 space. So just identify a number and then write down 23 whatever your additional thoughts or concerns are, and 24 we would greatly appreciate that. We'll be collecting those, they will be compiled and tabulated. 25

So as we get started, I'm going to turn the
 microphone over to Marielle, and she will take you to
 the first idea.

MS. GRANJEAN: Thank you. Before I start, I just would like to talk about the context of this. As you understand, despite a gloomy economic climate, clean technologies still offer a sense of optimism. It is an industry that represents one of the fastest growing opportunities for job and wealth creation. How can we make Metro Orlando a Cleantech leader.

As the Cleantech industry is evolving, many 11 federal, state and local policies are still at the early 12 stage of formation or implementation. Others are still 13 14 under consideration. It is an ongoing process. 15 Countries, regions, and cities all over the world are 16 embracing the growth and development opportunities 17 offered by clean technologies. But only those that 18 embrace progressive policies to speed the transition 19 process will be true leaders and winners in this race.

20 Once the Cleantech symposium series are over and 21 the Cleantech study reports comes out, local leaders 22 will need to embark into new initiatives to strengthen 23 Metro Orlando's position in Cleantech. Many factors can 24 contribute to the success of an Orlando Cleantech 25 cluster, like leadership, vision, creating the right

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image, and policy implementation. However, public
 policies will play the most vital role. It is in that
 context that we're going to offer 10 ideas, discuss them
 to see how we can grow clean technology in Metro
 Orlando.

6 First idea. At least 20 percent of Florida's 7 electrical power from renewable energy sources by 2020. 8 In hopes of slowing global warming and creating green 9 collar jobs, states are setting ambitious goals for 10 generating power from renewable energy. Solar, biomass, 11 wind and other renewable sources.

12 One of the most policy trends in clean technology in the U.S. has been the statewide renewable portfolio 13 14 standards. What we call RPS, the statewide Renewable 15 Portfolio Standards. Most cities and regions that are 16 considered Cleantech leaders are located in states that 17 require a specific percentage of their state's 18 electricity to be generated by renewable energy sources 19 by a target year.

In 2007, Governor Christ proposed a goal of generating 20 percent of Florida's electric power from renewable energy by 2020. On January 9, the Florida Public Service Commission adopted this goal and now it's on the way to the legislature. If this goal becomes law, consumers could be charged up to 3 percent more in

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1 order to jumpstart the market for clean technologies. 2 Some RPS targets are even more ambitious. For 3 instance, in California, Governor Schwarzenegger has 4 proposed a goal of 33 percent by 2020, up from the 5 existing 20 percent by 2010. New York Governor 6 Patterson is proposing a goal of 30 percent by 2013. 7 But large or small, RPS means demand for providers of 8 clean energy technology and services. So overall, RPS are good for the community. The benefits include 9 10 greenhouse gas reductions, job creation, energy security, and cleaner air. 11

12 The study done by the Florida Public Service 13 Commission shows that utilities could get up to 27 14 percent of their power from renewables by 2020 under the 15 best circumstances, but only 6 percent in the worst case 16 scenario. The midrange estimate is under 15 percent.

With an RPS loss, my question to you is the following: Will renewable energy use laws speed up the reduction of clean technologies in Florida or will market be the determining factor. How much should we count on a renewable energy law to help grow Cleantech in Metro Orlando. Thank you.

23 MS. BITTMAN NEVILLE: So we have heard again about 24 our first idea, and the question is, will a renewable 25 energy law speed up the adoption of clean technologies

in Florida, or will market forces be the determining
 factor. How much should we count on a renewable energy
 law to help grow Cleantech in the Metro Orlando area.
 Anyone wish to comment or answer that question, please
 step over to the mic.

б MR. TELLAM: I'm Mark Tellam. I just have a couple 7 comments. One is that I think you have to codify these 8 things and you have to do it in a way that the laws 9 aren't reversed so that businesses know what kind of 10 environment they're dealing with and they can plan for these things and their business strategies. The second 11 thing is that we're already paying, as far as I know, as 12 citizens, a credit into our electric bills to pay for 13 14 insurance for future plans for the power plants. So it 15 seems like we also ought to be able to underwrite truly 16 renewable energy in a similar way. The third thing is, 17 and I think the most important thing, is I think we 18 should start with the City of Orlando and Orange County 19 as opposed to the State of Florida because we can see 20 what's going on locally and we can have a much stronger 21 impact locally than getting behind kind of a diffused 22 flurry, feel good policy at the state level. OUC would 23 be a good start.

24 MS. BITTMAN NEVILLE: Thank you.

25 MR. WATTLES: Shawn Wattles with Mitsubishi Power

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1 Systems. Piggybacking on what the gentleman just added, 2 starting at a local level I think would be a more direct 3 approach and probably have a more vital impact. 4 Implementing statewide standards with such a broad brush 5 can have adverse impacts in certain areas and, you know, 6 the law of unintended consequences can come into play 7 here. I also believe this needs to be looked at from 8 the standpoint of a balanced energy portfolio, which 9 would include current resources, nuclear, clean coal, 10 natural gas, et cetera. So setting out a goal of just 20 percent and just calling it a black and white make it 11 or don't make it can have negative impacts in the long 12 run, too. 13 14 MS. BITTMAN NEVILLE: Thank you.

15 MR. BRUDERLY: Dave Bruderly, consulting engineer 16 from Florida. I can see we have a spirited debate on 17 the definition of market forces. The roll of government 18 according to Adam Smith, who wrote the Creation of 19 Nations and is considered to be the godfather of free 20 market capitalism, defines the role of government. The 21 role of government is to set policy to serve the public 22 interest, to serve and protect the commons, and in my 23 judgment eliminate pollution is a government policy 24 position that is supported by the vast majority of the citizens of the state of Florida. The Chamber of 25

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1 Commerce even took a poll, which they did not release to 2 the public, but they found that 70 percent of the 3 respondents to that poll, this is the Florida Chamber, said that they felt the climate change was an issue that 4 5 needed to be addressed. Unfortunately, most of those 6 folks did not think that they should pay more to address 7 that problem for energy. So what we have here is a 8 challenge for government policy makers to get the policy 9 right. We have to serve the public interest. The 10 public benefit is reducing pollution in the most efficient way possible, and the most efficient way to do 11 that is for policy to clearly define that objective so 12 people when they make purchasing decisions can 13 14 understand what it is they are buying. So a renewable 15 portfolio standard is a policy tool that moves in that 16 direction but it needs to be implemented in ways so that 17 the consumer really understands the carbon footprint 18 that they're buying everytime they buy a gallon of 19 gasoline or a kilowatt hour of electricity or any other 20 form of product that consumes and uses those kinds of 21 energy for its production.

22 MR. PIERCE: Cary Pierce. Lake County Economic 23 Growth and Redevelopment. When I looked at this and 24 then some of the other items on the sheet and you were 25 asking whether it should be from the government or from

1 the market forces, I go back to an old saying I heard 2 awhile ago. Any accomplishment not a result of a goal is an accident. So with that being the case, if there 3 4 is no one single entity saying that we need to reach 5 this goal, if we reach it, it will be an accident. It б will not be the direct result of someone setting that 7 goal. So I totally believe there needs to be a goal 8 set. Setting a goal does not mean that you set the path to achieve that goal. That's what all these other 9 10 initiatives are out there. That's what the market does, they achieve the goal, but someone needs to set the 11 12 goal. 13 MS. BITTMAN NEVILLE: Thank you. We have time for 14 one more. 15 MR. LAROE: I'll try to be brief. Ken LaRoe, CEO 16 of First Green Bank. I think that we need to do this at 17 the state level. If there is an embellishment at the 18 local level, that's all the better. I think the goal of 19 20 percent by 2020 needs to be simple, needs to be 20 measurable, needs to be direct. Like Cary just said, 21 that all of the policy implications will flow down from 22 that. We need mandates. The -- as all of the stuff 23 that's happened in the financial industry in the last couple of years has shown, the market will not self 24 25 regulate despite what people want to think, and we need

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1 2 mandates and this needs to be put in place immediately.

MS. BITTMAN NEVILLE: Thank you.

MS. GRANJEAN: Second idea. The creation of a 3 Florida clean energy fund. Public benefits funds was 4 5 something mentioned during the last symposium by Dr. 6 Fenton. Most of the states now have public benefit 7 funds dedicated to energy efficiency and renewable 8 energy projects. Many states have determined that for 9 any idea to be successful, they have to be accompanied 10 by a clean energy fund. For instance, the Connecticut clean energy fund created in 2000 by state legislature 11 issued more than \$100 million in grants to businesses, 12 including hospitals and plants, that installed and 13 14 generated technology on their sites. The study by the 15 Owens Berkeley National Laboratory and the Clean Energy State Alliance estimated that out of 3.5 billion dollars 16 17 will be invested by public benefit funds and clean 18 energy businesses between 1998 and 2012. At least 15 19 U.S. states have publicly energy investment funds 20 investing billions of dollars into early stage companies 21 and Cleantech project findings.

The clean energy fund has been proposed by the Florida Renewable Energy Association. It is a nonprofit organization that is dedicated to expanding the use of clean renewable energy technologies. The Florida Solar

1 Energy Center is represented on this board of directors. 2 Under the proposal, an assessment will be made on the 3 electrical usage of each customer to record to about 60 4 cents for the month for the average electrical customer. 5 This money will be dedicated to spur investment in 6 renewable energy in Cleantech. The department within 7 the Florida Office of Energy and Climate Change would administer the fund. And based on Florida's 2006 total 8 9 energy consumption, it is estimated that this fund will 10 amount to about 114 million dollars a year. Uses of the energy fund will range from educating Floridians on 11 energy efficiency to providing financial incentive for 12 solar manufacturing companies that establish factories 13 in Florida. 14

15 So what do you think of this idea? How important 16 is it to establish a Florida clean energy fund? Is this 17 an achievable goal in the current economic environment? 18 MS. BITTMAN NEVILLE: Thank you. So, again, if you 19 would like to comment on this particular idea, idea No. 20 2, clean energy fund. The question is, of course, what 21 do you think. We are very interested in getting your 22 comments. How important do you feel that it is to 23 establish a Florida Clean Energy Fund and do we think 24 that it is actually achievable in this economic market. 25 Any comments, please step to the microphone.

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1 MS. CHADWICK: Well, as was brought up already --2 I'm sorry, Kirstie Chadwick with the UCF Venture Lab, 3 and as Carol Ann and I mentioned previously, the -- my concern here is that 114 million, when you're dealing 4 5 with larger corporate incentives, is actually not a 6 large number, but it's a very large number if you're 7 willing to dedicate a fair amount of that fund towards that innovation. And so to John's definition of 8 9 Cleantech, if you're talking about innovation -- the 10 innovation part of it, because we're so lacking in that GAP funding in that early stage, part of the -- you 11 know, the economic development, I think this is a good 12 13 idea if you can better define, you know, what percentage 14 of that would go to early stage versus, you know, 15 manufacturing and some of the ideas you brought up. And 16 I do think it's achievable based on taxes of energy 17 bills and stuff like that, of which other states --18 there's plenty of models out there to follow. 19 MS. BITTMAN NEVILLE: Thank you. 20 MR. BRUDERLY: Dave Bruderly, again. I will point 21 out that the City Commission basically voted to do this, 22 in effect, tax the utility customers a very small 23 amount, about 1 percent, to pay for a very specific 24 targeted program, which is putting solar panels on the rooftops in Gainesville. Original utility service area. 25

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1 The idea of a statewide fund is long overdue. Many of 2 us who have been active in this industry have had to go 3 to California and other places or the federal government 4 seeking funding just for research and development, let 5 alone commercialization. There is effectively no money 6 available for commercialization in the state of Florida. 7 It's accessible to small businesses and entrepreneurs. 8 A lot of the grant funding the state has put out has 9 gone to big blue chip companies to support technologies 10 which are worthy, but small businesses have a hard time competing for that. So I strongly support this 11 initiative. The only condition I would make to it is 12 that the award of the money really needs to be tied to a 13 14 performance criteria, something that's tangible. Like 15 with a goal towards zero carbon emissions. In other 16 words, the technology should move towards a carbon 17 footprint that is as low as it can possibly be taken 18 under the technologies that are available. And that 19 zero footprint is achievable. 20 MS. BITTMAN NEVILLE: Thank you. 21 MR. TELLAM: Mark Tellam again. Central Florida 22 Manufacturing Central Partnership. The State already

has a fund set up through the Sidowski Work Force
Housing Act that impacts affordable housing, and if you
were to look at a life cycle cost analysis for materials

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that go into work force housing or affordable housing, 1 2 and if you were to look at the total cost of ownership 3 of such housing, you know, that could be a good start 4 for developing some regulations at the state and local 5 level. The local governments pull down those funds. 6 For instance, the City of Orlando pulls down those funds 7 for affordable housing stipends for citizens already. So I think that would be a good start because that money 8 9 would be available to all the businesses locally who are 10 building homes, which are the single biggest source for energy consumption. 11 MS. BITTMAN NEVILLE: Thank you. 12 Anyone else wish to comment on our second idea? 13 14 All right. 15 MS. GRANJEAN: Third idea. This idea comes from 16 San Diego. Creation of a Cleantech challenge grant 17 program. San Diego has already awarded three grants 18 under this program. Its purpose would be to accelerate 19 the commercialization of environmentally friendly 20 technologies from academia to the private sector. It is 21 a joint effort of the City of San Diego, the University 22 of California, San Diego, and the San Diego EDC and other partners, such as Qualcom. Under this program, 23 24 there's a competition for Sid grants of up to \$50,000 25 for proof of concept and prototype construction.

Winners also receive business mentoring services similar
 to those we have here at the UCF technology incubator
 and venture lab.

4 The first three grants were awarded last October. One, as an example, was to an engineering professor for 5 6 a project to increase the efficiency of electricity 7 generating PV panels by using quantum wells and wave 8 quides to concentrate solar energy. For those of you 9 who do not understand this, I am sure you will agree 10 that at least it sounds very important. Our guest this morning, Mr. Chirazi, who represents the City of San 11 12 Diego in this program, says this program is very 13 important because angel and VC funds is not available at 14 the early stage of start up companies. Here, we will 15 need about from 150,000 to \$500,000 a year to establish 16 a Cleantech challenge program. A modest amount of money 17 compared with other ideas for promoting the growth of 18 Cleantech in our community.

So how important do you think this idea is to encouraging and growing Cleantech in Metro Orlando? MS. BITTMAN NEVILLE: Now, I would definitely say we have some individuals who would like to make comment on idea No. 3. So how important is this idea to encourage and grow Cleantech in Metro Orlando? If you would please step over to the mic and let us hear your

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1 comments.

2 MR. TELLAM: Some quick thoughts on this. First of 3 all, the Florida High Tech Corridor Council, which is USF, UCF and UF, has a matching grant program that's 4 5 funded by the State. The funds are intended to be poled 6 by a business partnership where a business comes into 7 the university and collaborates with the faculty and 8 graduate students to get a project done. And in the 9 weighing of those grants, when the community reviews the 10 proposals, they could skew that towards renewable energy just by incorporating a point system that takes that 11 into account. The most important thing is that it's 12 poled by business rather than initiated by IP that's 13 14 developed by faculty. If you look at the University of 15 Florida, what they're doing is they're taking money from 16 the research foundation there in Gainesville and 17 building proof of concept devices related to IP, and 18 then they're embedding the cost of those proof of 19 concept devices into licensing arrangements where 20 companies pick that up and then pay the foundation back 21 those funds. So, you know, that would be something 22 that's already in place that could be strengthened again 23 to accelerate the process. 24 MR. LEWIS: So because of that, Mark, would you

25 rate that goal of a higher importance or a lower

1 importance?

2	MR. TELLAM: I rated I didn't pick this up in my
3	two choices de jour, but I think that grants are
4	important. Actually, over at Moffett, there was a guy
5	I think it was David Hale from San Diego who was
6	talking a little bit about the medical incubators out
7	there having to do some things and he identified grants
8	it wasn't in his Powerpoint presentation, but he
9	identified grants as particularly important in these
10	economic times, John, because the banks aren't loaning
11	any money right now. We really need to look at grants.
12	And I would advocate for existing grants because the
13	state is also cutting back budgets right now. They just
14	hit UCF very hard this week with a budget cut, but
15	MS. BITTMAN NEVILLE: So, I think, John, I heard
16	the answer to that was, yes, right?
17	Thank you.
18	MS. CHADWICK: As always, of course, funding is
19	good, especially for early stage, but in this particular
20	case, I'm going to rearticulate the concerns I have on
21	the dollar amounts we're talking about being so small.
22	So if I had to choose, I would choose the previous one
23	over this one because of the amount of funding that
24	could go into the you know, the early stage projects.
25	To Mark's point, there's already a lot of projects going

1 on in the state and the region. And, again, many of 2 them are at risk because of the budget cuts, so with the 3 caveat that some of them may go away, that's based on 4 some of the dynamics going on in the economy right now, 5 but at least in the past the State has done and the 6 region has done a good job of providing incentives and 7 programs, you know, at the level of what these are 8 already. So I'd rather, you know, folks focus on, gee, 9 what happens after they win that 55 to 100K kind of a 10 grant because there is also SBIR funding, which comes from the federal government, but there's a lot of focus 11 on that here in our region as a source of funding for 12 these early stage companies as well. So I am actually 13 14 going to suggest we defer this and go for maybe a little 15 bit bigger fund.

16 Carol Ann's nodding. That's good.

17 MR. BRUDERLY: Dave Bruderly. One aspect on this 18 that has troubled me is that there are a lot of 19 opportunities out there for achieving green technology 20 that are not proprietary. There is no intellectual 21 property. It's just practices that are readily 22 available. I'll use the example of natural gas 23 vehicles. Off the shelf technology, cheap, efficient, 24 affordable, but not in common usage because there is no 25 culture to support gaseous fuels in motor vehicles in

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1 the state of Florida. There is no driver from a clean 2 air stand point because our air's clean because all the 3 pollution's blown out into the ocean everyday, and 4 unlike California, we don't have mountains to hold it 5 in. So there are green opportunities like that that are 6 not -- do not depend on breakthroughs in technology, 7 therefore, it's very difficult to get proof of concept 8 demonstration money in the environment that we have in 9 the state today.

10 So, again, performance -- award of any funds needs to be tied to actually performance that achieves public 11 12 policy goals. And we don't just want to socialize the risk just to privatize the profit. And that's part of 13 14 the danger of what you're talking about here is we are 15 socializing the risk of making investments, and unless 16 there's a clear public policy goal, you don't want to --17 you just don't want to go out and tie that to some 18 intellectual property that somebody else can own and 19 control and will make a whole lot of money with an up 20 front subsidy that doesn't have a clear public purpose. 21 And also you want to make sure that you don't overlook 22 something that's low hanging proof that could be easily 23 implemented, no property involved, no intellectual 24 property involved, but still a very high return on that 25 investment from a public policy perspective.

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1 MS. BITTMAN NEVILLE: Thank you. And, of course, 2 we heard the comment being made about, you know, where do we find that funding, that gap, and if anybody has 3 any comment on that, we'd like for you to step over to 4 5 the microphone as well. Where do we find some 6 additional grants or any other ideas for funding, which 7 I think is one of the major questions, right? MR. TELLAM: John, what I put down was 8 9 strengthening the enterprise season here in Orange 10 County is probably the No. 1 grant that we could afford small businesses because it would minimize or eliminate 11 overhead, and we can do that with county and city 12 resources, without asking for cash, I think. 13

MS. BITTMAN NEVILLE: Good. Thank you. Anyone lse?

MS. GRANJEAN: Our fourth idea. Green collar job 16 17 training programs. As you understand, new technologies 18 require new skills. Energy efficiency and renewable 19 energy industries will not succeed without qualified and 20 trained people who can do the job. We need green 21 workers to install millions of solar panels, to 22 implement alternative energy plans, make buildings more 23 energy efficient and maintain and repair hybrid 24 vehicles.

25 There are plenty of training programs throughout

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1 the country. For instance, in solar technology, we have 2 Austin Community College, New Mexico. Here in Central 3 Florida, we know that the solar energy center offers 4 some courses, but we're not sure they are for here. In 5 wind energy, there are courses offered in two places, 6 Iowa and Wisconsin. In green construction, there's a 7 community college that offers an online program, and the 8 green building certification institute is also offering 9 classes online, and the fuel cell technology, the Texas 10 State Technical College in Waco, Texas is offering a very interesting program. 11

But to make real progress on economic and work 12 force development opportunities, we need to focus more 13 14 carefully on Cleantech energy sectors. We know that the 15 energy efficiency sector is -- can be the fastest and 16 the cheapest way to address global warming, reduce 17 energy costs and sustain good jobs. Most jobs look like 18 traditional construction jobs; however, most 19 opportunities are available in retrofits, green building 20 and green manufacturing. The Regional Economic 21 Development Institute at the Los Angeles Trade-Technical 22 College identifies several emerging middle-skill 23 occupations among green construction jobs with the 24 highest employment potential. They range from energy 25 and indoor air quality auditor to HVAC operation and

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maintenance technicians to solar installer and
 technicians.

3 The wind sector is also important because of its 4 rapid and high profile growth in the U.S. and abroad. 5 Its potential in economic driver, its capacity for job creation, and manufacturing. Jobs in the wind sector 6 7 are comparable to those in the traditional 8 manufacturing. But component part manufacturing for 9 wind turbines holds particular promise. The Minnesota 10 West Community and Technical College found that employers wanted graduates of three related tracks: 11 Wind energy technicians, wind energy mechanics, and 12 windsmith. So the following key principals have been 13 14 identified as important in the process.

15 First, we need to target specific sectors. We need 16 to use good data to drive green job initiatives, we need 17 to identify the existing training in education programs, 18 and we also need to identify and fund the leading 19 programs that are not in existence. We also need to use 20 energy standards as green job creation tools. We need 21 to pull more green industry clusters and develop 22 Cleantech partnerships with schools. We also need to 23 save the existing jobs and create new ones through green 24 innovation.

25 So is this idea an important one to pursue, or

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1 2 should we let these training programs evolve in due time.

MS. BITTMAN NEVILLE:: You know, one of the things 3 that we heard this morning was talk, of course, about 4 5 all of these initiatives, the things that are being done 6 in San Diego, but where do we have the training. And, 7 you know, the question that was posed to you, and I 8 would just like to expand on that, is, one, is this an 9 important idea, to pursue the training aspects, or 10 should we just let the training programs evolve. My question would be, I know we've got a number of the 11 University of Central Florida individuals here who may 12 13 be able to speak on this and a number of maybe other 14 entities as well. You know, should our schools begin to 15 look at offering or beginning to develop a curriculum 16 for this type of training. And so if you do have a 17 comment on that, what are some ideas to really make this 18 happen? Who should we bring to the table to begin 19 developing the training, if, indeed, this is going to be 20 a strong initiative for our Metro Orlando area. So I 21 would invite you to step to the microphone and share 22 your thoughts. 23 Or I'll call on you. 24 MR. SNAITH: As a professor, I felt some duty to

25 step up.

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MS. BITTMAN NEVILLE: I thought so. I was looking
 at you, but --

3 MR. SNAITH: I think it's important. There is a little chicken/egg problem, I think, with these 4 5 programs. You know, partnerships between higher 6 education and industry here, I think, is very evident 7 when we're speaking about Entertainment Arts, EA, here 8 in town, maker of video games, and how they are having 9 problems with work force issues and how the interactive 10 academy at UCF's creating a village concept sort of evolved to keep them here and allow them to expand. 11 So, you know, we may want to look at existing companies that 12 13 are already here in Cleantech and see if their needs are 14 being met in terms of work force skills, and then, you 15 know, have that guide the programs, whether it's at UCF 16 or any of our community college partners or technical 17 schools. So I think that's a discussion that should be 18 held. You know, it should be a relatively low cost 19 thing because presumably we're going to provide a 20 product that has a market, that's in demand. So, you 21 know, in my opinion I'd rank it up there just because we 22 can still Cleantech without laying out a whole bunch of 23 money or legislature.

24 MS. BITTMAN NEVILLE: Others that would like to25 comment, if you will step to the mic.

MR. BRUDERLY: Dave Bruderly. I feel like I'm
 wearing out my welcome here, but --

3 MS. BITTMAN NEVILLE: You should sit a little4 closer. Just kidding.

5 MR. BRUDERLY: I have to use an example of about 10 years ago, there was a move away from liquid petroleum 6 7 fuels in the automotive sector to go to gaseous fuels, 8 natural gas, hydrogen, and here in Florida, what 9 happened was that, because we didn't develop culture to 10 go to these low carbon cleaner fuels, when there was a brief disruption in the marketplace due to extremely low 11 price of petroleum in 1999, 2000, 2001 and a blip in the 12 13 price of natural gas, the people who had stuck their 14 necks out and bought natural gas buses and vehicles, 15 such as Lynx and I believe Orange County government and 16 who had installed refueling infrastructure for natural 17 gas vehicles found that the only support contractor in 18 the state motor fuelers went out of business. And when 19 that one company went away, there was nobody left in the 20 entire state of Florida to service compressors, gas 21 compressors, a very basic fundamental technology. Not 22 high -- it's high tech, but that went away, and as soon 23 as it became more difficult to find a service provider, 24 the companies that had like Orange County and Broward 25 County and others who had made investments in trying

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1 this cleaner, safer, more efficient motor fuel gave up, 2 and they just let that machinery decay and did not 3 maintain it. And the reason for that was that they 4 didn't have mechanics on their own automotive staff. 5 They had many, many, many mechanics who could take care 6 of gasoline or diesel powered equipment, but they had 7 nobody who was really aware of how do you deal with a 8 high pressure gas in that environment. So there was a 9 failure here on the training side to fully educate 10 automotive mechanics on this technology. This is relevant today because what we're seeing today is a -- I 11 was in a meeting yesterday with T-Bone Pickens and Mike 12 Jackson, who's a CEO of automation. There is a massive 13 14 change happening in the auto industry throughout the 15 world. We just put two million dollars here in the 16 United States into advanced battery technologies to try 17 to develop the lithium ion battery and the all electric 18 car. There's discussions again about hydrogen and 19 natural gas and what the policy should be to incend, but 20 the bottom line is change is coming and our automotive 21 mechanics in the State of Florida are not ready for that 22 change. There needs to be education. And how do you 23 deal with battery electric vehicles, how do you deal 24 with high pressure gases. In addition to this, how do 25 you take care of the good old garden variety diesel

1 engines. If we don't educate these folks now, they're 2 not going to be ready for whatever comes out of the laboratories tomorrow. And I'm not talking 10 years 3 4 from now, I'm talking literally tomorrow. 5 MS. BITTMAN NEVILLE: Thank you. Anyone else wish to comment on the training? 6 7 Please. 8 MR. DOWNING: I'm Jim Downing with Bishops (sic.) 9 Florida. We've had such a parade of experts, I thought 10 it was time the uninformed and ignorant come up. We've been discussing, it seems to me, whether and how we 11 should implement Cleantech, and then how do we finance 12 it, and this to me sort of came out of left field 13 14 because it's almost sort of hinting at if we just had 15 the trained work force, then we could implement 16 Cleantech and then we could fund it. And it seems to me 17 that this is at the tail end of that cycle, and the 18 public institutions here in town, Valencia, Seminole and 19 UCF, in my view, have been very responsive to market 20 trends in terms of the courses they're offering, and 21 then the for profit schools that pop up for this kind of 22 training will be right there, it seems to me, once we 23 figure out whether and how to implement and how to 24 finance those companies. So I rated this relatively 25 low. And the fact that there are UCF people here, I

1 don't know if there's Valencia or Seminole people here, 2 they'll figure it out. When the companies -- when the 3 demand is there for these jobs, then I think it'll be 4 easy enough to train this work force.

MS. BITTMAN NEVILLE: Thank you.

5

MS. CHADWICK: I'm back. I just wanted to kind of б dig down a little bit to what Jim was hinting at. A 7 8 couple things. First of all, I don't know about wind in 9 Florida, so just take a tactical real quick that you 10 focus on solar mainly in your slides, and that's probably a nit, but, nonetheless, you know, the first 11 thing to do is to figure out what we're going to be 12 doing in Florida, and, of course, building and solar and 13 14 what not might be a little more, you know, tactical for 15 us to focus on. But that's, you know, without having 16 really researched the problem.

17 But then the other thing, too, kind of articulating 18 a little further what Jim was saying, the jobs won't 19 necessarily be there unless the incentives are put in 20 place to create the jobs. So I do agree that this is a 21 lower priority, not because I don't think we need to 22 have this trained work force, but because you don't want 23 to spend dollars training folks if the incentives aren't 24 in place to create the solar installations, because 25 those -- you can look at all the regions in the world

1 where solar has been adopted. And I would look at 2 Germany, because Germany started out with, you know, 3 very significant incentive programs and subsidies to 4 encourage people to do those installations, which, of 5 course, created jobs which required the training, but 6 they are just now weaning off that. So the market did 7 actually begin to bear itself out, but it took years. 8 So without those incentives, these jobs won't be created. So I think we need to put the cart before the 9 10 horse.

MS. BITTMAN NEVILLE: Good. Thank you.

11

Another version of that, having been 12 MR. WATTLES: involved with some work force development issues, 13 14 specifically surrounding stem and a couple other 15 industry initiatives more on the nuclear side, there's 16 different approaches to the marketplace training. One 17 is a push, one is a pull. And when we begin to try and 18 push people into this training when the market isn't 19 ready to accept it, we're really pushing people into, 20 you know, an area where there's going to be adequate 21 jobs to support that training. When we allow the market 22 to develop and have a process where they can pull, 23 meaning we have implemented measures that will incent an 24 institution or the public for-profit colleges to open 25 their doors for the type of program, they're ready to do

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that when the market is ready to pull those people into the industry. So kind of a different mentality or different approach there, but we've seen a lot more success in that pull type of approach. So when the market's ready, the training can open up and people can go in that direction.

7 MS. BITTMAN NEVILLE: Good. Thank you. We 8 certainly had some difference of opinions on that and 9 that's what we certainly like to see. So we'll move now 10 to idea No. 5.

MS. GRANJEAN: The fifth idea. Hiring or 11 12 designating a Cleantech program manager. In 2007, Mayor 13 Jerry Sanders from the City of San Diego hired the 14 Cleantech program manager, Jacques Chirazi, whom we are 15 glad to welcome here today. His responsibilities were 16 forming and promoting collaboration within government 17 agencies in the Cleantech sector as well as advising the 18 Mayor in the development of the San Diego clean 19 technologies advisory council. Okay. The local 20 government could hire a Cleantech program manager with 21 the overall responsibility to promote the development of 22 a Cleantech cluster in Orlando. The Cleantech program 23 manager could also help establish the following: The 24 Cleantech advisory council, made from government, 25 business, academia and non-profit organizations and its

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1 mission would be to develop a clear Cleantech strategy, 2 attract businesses in Metro Orlando, and create jobs. 3 It could also help establish a clean team for high value 4 Cleantech companies similar to the current miracle team 5 that we have in Orange County for high value projects. 6 So the clean team's mission would be to seek and support 7 Cleantech businesses in Metro Orlando. We could bring 8 together services of the UCF technology incubator, the 9 venture lab, the advisory board council program and 10 other programs for a year or two of concerted effort to assist such companies. For example, with start up 11 space, market research, and the customer networking 12 13 center.

14 Other cities have been taking similar initiatives. 15 For instance, in the City of Austin, Texas, with City 16 funding, the chamber of commerce even hired a full time 17 director of economic development, Laura Valentine, with 18 a specific task: To seek and support clean energy 19 companies. This initiative paid off since Austin was 20 named last year the No. 1 Cleantech city in 2007. In 21 2005, San Francisco's Mayor, Gavin Newsom, established a 22 16 member council whose mission was to promote and 23 create the City's Cleantech agenda, bring Cleantech 24 businesses to San Francisco, and create job 25 opportunities in high skill industries, and they have

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seen great results.

1

2 So what do you think? Could such initiatives help 3 promote Cleantech growth here in Metro Orlando and 4 create jobs and wealth? 5 MS. BITTMAN NEVILLE: So as you hear our idea No. 5, and, of course, I believe we've got representation 6 7 from a number of the organizations and groups that were 8 mentioned. Of course, we have government, business, our 9 members of academia, and some specifically mentioned the 10 UCF technology incubator, the venture lab, the advisory board council program and others. So for those of you 11 who were named, what do you feel of this initiative of 12 creating this Cleantech program manager that would help 13 14 to initiate some of the goals and objectives. So we'd 15 love to hear your thoughts, if you would, please, again, 16 step over to the microphone, announce your name and your 17 company and share with us your thoughts and ideas. 18 MR. LEWIS: Sort of a Jacques Chirazi clone. 19 MS. BITTMAN NEVILLE: We could try that. 20 Any ideas on creating such a position as we have 21 heard of Jacques' position in San Diego? Anybody want 22 to apply for the position? We have applications. Here's one coming now. All right. Good. 23 24 MR. PIERCE: Cary Pierce, Lake County Economic 25 Growth Redevelopment. I think the program manager would

1 be a nice position to have, but as Jacques had told in 2 his presentation, the one thing a program manager would 3 need would be the tools to complete the task. Without incentives, without a coordinated effort, if you're 4 5 doing this in Metro Orlando, you now have to go through 6 Metro EDC, through their vehicle. It would be something 7 implemented through their organization where you've got 8 buy-ins from all the different counties, financial 9 buy-ins, incentive buy-ins to do that. You've got 10 Enterprise Florida, which is already existing in the high tech corridor. All these different entities, you 11 would have to have a definitely coordinated effort just 12 to create the program and to create the incentives for 13 14 that individual to accomplish that task. So without 15 there being any of those things available from an 16 initiative standpoint, the tools to go out there and 17 recruit these businesses, to foster those businesses, to 18 allow them to grow, especially during a cluster type 19 situation, where you're doing your cluster analysis on 20 where these businesses are currently located, where 21 they're going to be located, where your verticals or 22 horizontals currently exist or are going to exist, it's 23 a huge, huge task to get that kind of orchestrated. 24 From a Metro Orlando perspective, that makes it even 25 that much more challenging. It would be easier to do it

from a local City of Orlando type aspect. But then you're going to sacrifice the type of technologies you can have because of the limited resources that are available within a city as opposed to a Metro format.

5 MS. BITTMAN NEVILLE: So we certainly hear you 6 saying leverage all of the geographic areas to create 7 some synergies?

MR. PIERCE: Absolutely. Use the assets that you 8 9 have available. You would have to. There would be 10 companies, biotech type of companies doing biodiesel fuels who would not want to be located right in downtown 11 12 Orlando. They have no advantage to being in downtown Orlando. They would much rather go to a low cost area 13 14 where they can have higher land use, where they can have 15 larger land use. When you get to the reverse, if you're 16 looking at Cleantech where it's really from a -- when 17 you're looking at plastics and you're looking at 18 polymers, you're looking at Blue Earth, the company Blue 19 Earth Solutions taking Styrofoam, processing it into 20 small little plastic pieces, that whole process they're 21 doing is completely nontoxic. It's earth friendly in 22 the name, but they are going to be the most remote. 23 They don't need high cost. They don't need anything 24 fancy. They just need the brick. That's all they need, 25 and the space. So that's where you would want to

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1 leverage what you have available outside of Metro 2 Orlando. But, again, if there's not incentives from a Metro Orlando standpoint, then the entity doesn't work. 3 4 MS. BITTMAN NEVILLE: Thank you. 5 MR. BRUDERLY: Dave Bruderly, consultant, Gainesville, speaking to the question do you need a 6 7 program manager, and the answer is, absolutely, yes. I 8 will quote T-Bone Pickens and Mike Jackson who appeared 9 yesterday at Nova Southeast University and Navy, and 10 T-Bone basically said that a fool with a good plan in business can defeat a genius with no plan. We have a 11 lot of geniuses in the state of Florida trying to come 12 up with a lot of really creative good ideas to solve 13 14 this problem, but we do not have a comprehensive 15 statewide energy plan. So if you don't have a statewide 16 plan or a national plan, then you've got to think 17 globally and act locally. If Orlando wants to prosper 18 in a carbon constrained economy, in a carbon constrained 19 world, which is what the Governor is telling us he wants 20 to see us do, then we have to act locally until the rest 21 of the state, the rest of the nation, the rest of the 22 planet catches up to us. So, yes, we need a program 23 manager to develop the plan.

24 MS. BITTMAN NEVILLE: All right. Any debate on25 that?

1 All right. Let's move to our next idea. 2 MS. GRANJEAN: Item No. 6. The creation of a clean 3 energy incubator using UCF technology incubator. 4 Cleantech incubation has become a hot topic as many 5 cities are competing to lead in combining Cleantech 6 investment infrastructure and supported policies in a 7 physical cluster. According to the National Alliance of 8 Clean Energy Business Incubators, 78 U.S. early stage 9 firms and 11 incubators commercialized 52 clean energy 10 technologies from 2002 to 2005. According to Sustainlane, the following cities were leading for 11 Cleantech incubators in 2007. 12 13 Austin, Texas. Austin's clean energy incubator was 14 created with the Austin technology incubator in 2001 at 15 the University of Texas, Austin. With seven companies 16 involved in incubating everything from Internet 17 controlled irrigation to wind and geothermal energy 18 technologies, the group works closely with city-owned 19 utility Austin Energy, according to the assistant 20 director Kurt Faulhaber. 21 San Jose, California. San Jose has been able to 22 attract a lot of venture capital funding alongside new Web 2.0 start ups. With long-time leadership in 23 engineering know-how, combined with semi-conductor, nano 24

25 technologies and optics research and development, San

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Jose has had the edge in renewable energy development
 particularly in solar energy applications.

3 Berkeley, California. The center for biofuels and energy research, the Energy Biosciences Institute, was 4 5 co-located at the University of California-Berkeley and 6 the University of Illinois at Urbana-Champaign in 7 January, 2006. Funded mostly by BP and partially by the 8 State of California, the Institute will also be managed 9 by the federal Lawrence Berkeley Laboratory, also 10 located in Berkeley.

I'm not going to talk much about Pasedona, but they 11 12 were in the forefront in greater Boston, Massachusetts. Okay. This state has been the most supportive in terms 13 14 of state policies in the nation for renewable energies 15 and energy efficiency. It also leads in Cleantech venture capital investment after California. Among 16 17 other sources of start ups, they draw from Cambridge, 18 home of MIT's Ignite Clean Energy Competition. It was 19 MIT grads who founded from research in MIT labs the two 20 leading advanced lithium ion battery companies, the 21 Boston area's A123 system and the Lilliputian Systems. 22 So as runner ups, in fifth position was San Francisco, 23 New York, Seattle, San Diego and Houston.

So creating a clean energy incubator within the UCFtechnology incubator would provide Metro Orlando start

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1 up companies with the testing and technology expertise 2 that they would need to succeed. The ideal model for 3 Cleantech incubation includes a start up or advanced 4 stage venture capital and investor network access, 5 including mentoring and coaching. Academic or federal research lab collaboration, active state and local 6 7 government participation for field testing, pilot 8 programs and incentives.

9 So what do you think of this idea? Would a
10 Cleantech incubator within the business incubator give
11 Metro Orlando an advantage in achieving a Cleantech
12 cluster?

13 MS. BITTMAN NEVILLE: I believe that one must bring 14 music to your ears, or eyes, I guess that is, right? 15 MS. DYKES: Maybe not quite so much as you think 16 because the reality is the UCF business incubation 17 network, which is composed of a number of different 18 facilities, but in particular the technology incubator 19 component of the program, which is all based in Research 20 Park, there is -- there is not anything that would be 21 centralized in the Cleantech incubator, per se, that we 22 don't already have. And, in fact, the value of having a 23 broader technology based incubation program such as UCF 24 already has, we're going into year No. 10 of the program 25 here, actually is because of some of what we've talked

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1 about this morning. The reality is that Cleantech is a 2 convergence and leveraging of a whole array of different 3 technologies. Some were are listed up there. Same ones 4 that we already have within the technology incubator 5 client company base and graduate base. Optics, bio, 6 semiconductors, electronics, advanced materials, nano 7 technology. So while having a section of our facilities 8 that was dedicated to perhaps specialized equipment with 9 lab facilities where companies could share equipment, 10 which is a common practice in many incubators, not ours because of the capital equipment cost, there would be 11 some value in that. But I would -- because we have such 12 a strong incubation program already in this community, 13 14 in Central Florida in general, I would not necessarily 15 be a strong advocate of a facility that's focused only 16 on Cleantech. The reality is it would end up being an 17 incubator facility with an array of different kinds of 18 companies that were bringing different technologies in 19 there. And that's very much what we already have. We 20 already have a very strong mentoring program, access to 21 capital. We already do angels, VC's. They come visit 22 us all the time anyway. So we already have all these 23 components. So it's an expansion of our resources to 24 provide all this. I think really what we need is 25 continued support from our great partners like Orange

1 County.

2 MS. BITTMAN NEVILLE: Thank you, Carol Ann. 3 MS. CHADWICK: I agree with Carol Ann a hundred 4 percent. I think -- and I'm glad she articulated that. 5 I was a little worried about not agreeing and having a 6 debate in real time on TV, but luckily we're all on the 7 same page on that. But what I wanted to, you know, 8 articulate for the purposes of what you're trying to 9 accomplish here is clarification of the definition of an 10 incubator, because I think Carol Ann would probably concur that that word now is a buzz word at, you know, a 11 national level on economic development, early stage kind 12 of stuff, and yet what you described up there is, you 13 14 know, what other folks are doing in other regions really 15 is more university R&D kind of centric. If you look at 16 every one of those I think that you had on your list was 17 related to a university, as are we, but in this case I 18 think Carol Ann will articulate that the criteria they 19 have for entrepreneurs coming into their incubator, it's 20 an established company already, versus R&D efforts, 21 which we do have one incubator in Creole out at UCF, 22 that Gordon runs. He's back there as well. He's right 23 behind me and he can talk about that. That's probably 24 more in line with what I think you're trying to 25 articulate here. So I would pay attention to the fact

that FSEC already exists, and there are already, you know, research centers, not just at UCF, but throughout the state that are already addressing and overlapping with what you've put on up on that slide. So maybe just double check your definition and then do some digging into what already exists before future dollars are allocated to these sorts of things.

8 MS. BITTMAN NEVILLE: Thank you.

9 MR. HOGAN: Gordon Hogan. I'm with the UCF 10 business incubation program. I'm going to take a little different approach here, because I think if you want to 11 emphasize something, it's a good idea to set aside a 12 special facility and a special program to promote that 13 14 particular effort, whatever it might be, and I think a 15 Cleantech emphasis would help emphasize that. If you 16 remember the chart that Jacques used in his 17 presentation, the money that's required to take it 18 through the various stages is an interesting thing that 19 you have to look at, and we at the photonics incubator, 20 we have adequate funding to do proof of concept work 21 through SBIR's and STTR's and other grants, and with the 22 Florida high tech corridor council matching funds, we 23 have the money there to develop that. But at some point 24 that technology is going to be ready for outside money, 25 and that's where we get into trouble here. And it's

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1 been mentioned already, but I have to emphasize it again 2 that we've put the money into the economic development 3 process, but what happens is we sometimes lose the benefit of having put that money in there because it 4 5 moves through another location to find venture capital 6 when the attention is needed to support the effort. So 7 I think I kind of like the idea of a Cleantech 8 incubator.

9 MS. BITTMAN NEVILLE: All right. Thank you,10 Gordon. Please.

MR. ROSS: Good morning. Mike Ross with Creative Technologies. I'm one of the dogs in the hunt here because I'm an incubator client currently out at the --MS. BITTMAN NEVILLE: Say that again.

15 MR. ROSS: I'm an incubator client. So I really 16 can testify to the value of incubation concept and 17 funding and even branding. I would reinforce Carol 18 Ann's message in that, what I found -- I've only been 19 there five, maybe going on six months -- is that the 20 blend of companies in high tech gain value by being 21 close to each other and sharing a lot of resources, you 22 get a lot more value as a client. And I'm in 23 communications technology, and I'm surrounded by IT and 24 bio and a variety of other nano technology CEO's and 25 other start ups, and you see a lot of value in that

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1 incubation process being sort of homogenized together. 2 So I would -- I'm kind of like -- I don't know if I said 3 anything specific there, but I endorse the incubator client -- the client value to being together with other 4 5 technologies as they emerge, and whether the branding be different or the same, I think it's the unification of 6 7 the incubator that has a lot of value to all the 8 clients.

9 MS. BITTMAN NEVILLE: Good. Thank you. So again 10 we get interesting perspective from a variety of 11 different companies and organizations on the Cleantech 12 incubator. So I think that was good feedback.

13 So we'll move to idea No. 7.

14 MS. GRANJEAN: Idea No. 7. The adoption of 15 comprehensive green buildings. We are hearing a lot 16 about green buildings these days, and most often this 17 means buildings that are LEED certified. LEED stands 18 for the Leadership in Energy and Environmental Design 19 green building rating system that provides a set of 20 standards for environmentally sustainable development. 21 Examples of LEED certified green buildings in Orange 22 County include the new medical examiner's office, a new fire station and a new urban center. Building green can 23 24 also mean making renovation and improvements to existing 25 buildings.

1 This slide was presented at the last symposium by 2 Mitsubishi, and it describes a PV demonstration system. 3 In it, they're installing it on the roof of an existing 4 building.

5 Many cities across the nation are going a step 6 beyond what we are here in adopting green building codes 7 and ordinances for new buildings and renovation from New 8 York City to Boston to Nashville and Carolina.

9 So when it comes to attracting, creating and 10 growing Cleantech companies in our community, how 11 important is it for us to formally adopt comprehensive 12 green building codes and ordinances?

MS. BITTMAN NEVILLE: So as we hear the question as 13 14 it relates to green buildings, when it comes to 15 attracting, creating and growing Cleantech companies in 16 our community, how important is it for us to formally 17 adopt comprehensive green building codes and various 18 ordinances. So for those of you who would like to 19 comment on that, if you wouldn't mind stepping over to 20 the microphone, please.

21 MR. LAROE: Ken LaRoe at First Green Bank again. I 22 think this is an imperative also. I've been at the 23 epicenter ground level of -- in a small community in 24 Eustis in Lake County of the revolution in the building 25 industry that can happen. We've had a very progressive

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1 city commission elected by an upheaval in the community 2 when an out of town developer controlled -- purchased 3 and optioned a thousand acres outside the city, out of 4 municipal services, and proposed a five-acre, what I 5 call, slash and burn development. It basically caused 6 an election that got rid of all the city commissioners, 7 all of the city staff, all of the -- from the city 8 manager down, and implemented progressive personnel in those positions. And now is the time to implement this, 9 10 when building is slow, when development is slow, and the building industry is generally in the plysistine 11 12 concerning anything sustainable. And, again, it's going to take mandates to do this, but we have to be very 13 careful, because it's hard for a citizen, it's hard for 14 15 the community, it's hard for society as a whole to 16 compete financially with money self-interested parties, 17 and when the worm turns and land is now again worth 18 \$50,000 an acre, they will do whatever it takes to 19 change the law makers and change the laws. So I would 20 think it needs to be implemented with some super majority type things to prevent it from being changed 21 22 once the worm turns again. 23 MS. BITTMAN NEVILLE: Good. Thank you.

24 MR. BRUDERLY: Dave Bruderly, green environmental 25 consultant from Gainesville, Florida. This is right on

1 the money. I mean, you've got to have a government 2 policy that is clearly understood and has a clearly 3 stated public benefit. And going back and revisiting 4 local development ordinances and building codes is now 5 the time -- is the time to do that. And I say this 6 because the Florida Solar Energy Center, with their zero 7 energy home, demonstrated that this is not an economic 8 disaster. This is actually a way to add value and 9 create value by making more efficient use of off the 10 shelf, readily available building materials and technologies. You just put them together more wisely 11 using better thought out construction technique, better 12 designs where you take advantage of the site conditions 13 14 and available resources. Not just energy, but also 15 water and the land. And waiting for this to happen from 16 a federal standpoint or from a state standpoint is going 17 to be a long wait because there's a lot of powerful 18 economic interests who don't want to see rapid change. 19 However, this is a case where if you have local 20 government that understands the problem, then we are 21 best positioned to solve that problem. And, again, I'll 22 use Gainesville Regional Utilities as the case in point. 23 The city commission voted to use our local economic 24 resources, our municipal utility, to instill a 25 sustainable energy program that's also, by the way,

closely tied to building efficiency, conservation,

1

2 demand management, and all the other good things that we
3 want to see about making wiser use of our energy
4 investment.

MS. BITTMAN NEVILLE: Thank you.
MR. HOLLER: Hello. Michael Holler with
CO2 Scorecard Group. I just have a couple of quick
points on this.

9 The first is I think that the green building codes 10 are important and reform to the building standards are important not only looking forward in terms of new 11 construction, but also in terms of renovation and in 12 retrofitting existing buildings. Just harping back to 13 14 something which Jim Fenton from the Florida Solar Energy 15 Center said at the last symposium, the vast majority of 16 our building stock, both here in Florida and around the 17 country that will be in 2050 is actually already built. 18 And so if you're going to make a significant dent in 19 energy efficiency or in any of these issues, you need to 20 look at our existing stock in renovations as much as you 21 need to look at your new building going forward. 22 MS. BITTMAN NEVILLE: Thank you. Anyone else? 23 All right. MS. GRANJEAN: Idea No. 8. The creation of a 24 25 Cleantech center at UCF. And faculty members and

1 graduate students from different departments of science, 2 engineering, business and economics could partner with 3 the technology incubator, the venture lab, the nano 4 technology center, the Florida solar energy center, 5 etc., to do research, develop policies, foster 6 innovation and economic growth. This initiative is 7 currently in existence at the Washington State 8 University. It includes a graduate study program and 9 clean technologies. Through dedicated Cleantech 10 programs, this center can be a cornerstone of the region's Cleantech business development and knowledge 11 advances for the mission. They have created a one-stop 12 shop, state of the art website with links to different 13 14 resources. Projects are currently being carried in the 15 following clean technology sectors. Advanced materials, 16 environmental policy, renewable energy biofuels, smart 17 grids, sustainable design, sustainable farming.

18 In New York, four academic institutions, University 19 of New York, Bronx Community College, Pratt Institute 20 and Pace University School of Law have been working 21 together with the City's office of long-term planning 22 and sustainability to formulate clean energy and 23 sustainable planning programs. Cities can benefit 24 tremendously by playing an active role in coordinating 25 efforts among their institutions.

So what a great opportunity to get a maximum bang
 for the buck. Is this a great idea for UCF in Metro
 Orlando?

MS. BITTMAN NEVILLE: Well, on this idea No. 8, the 4 5 question is: Cities, as she said, can benefit 6 tremendously by playing an active role in coordinating 7 Cleantech efforts among institutions. What a great 8 opportunity to get the maximum, as she quoted, bang for 9 the buck. And is this a good idea for UCF and Metro 10 Orlando. And, again, we know we have representation from UCF and many from both the government and the 11 business sectors. So what are your thoughts on idea No. 12 13 8?

14 DR. ANDERSON: Hi. I'm Dr. Jeff Anderson. I'm 15 associate director of the Nano Science Center. It's an 16 interesting proposition. It has -- it has value, 17 although it gets a little tricky as academic units. 18 That is, for in nano science, we have a number of people 19 who are -- who have joint appointments at Florida Solar 20 Energy Center, Jim Fenton's center, and respectively the 21 nano faculty also work closely with the people from the 22 Florida Solar Energy Center. So we have Cleantech research groups working. And, again, academia, you 23 24 know, you can name things, you can create a whole 25 spectrum of entities, but the question is, you know,

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1 what's their core funding and how are they organized. 2 So right now, I mean, my bias would be to -- you know, 3 as a representative of the nano science center, again, 4 with these somewhat loose terms, Cleantech, even nano 5 science. We have a lot of people that are working with 6 cellular systems, a lot of people that are working with 7 biological systems, medical devices, and so forth, so if 8 we, you know, renamed or relabeled ourselves, you know, 9 it would automatically exclude this very large part of 10 our group. So my bias would be at this point for UCF, in general, I don't think it would be helpful as a --11 12 you know, for an academic unit to be so named, although, you know, if you take a look at our website, you'll see 13 14 that there's a prominent energy focus that's part of it. 15 But we've been constructed as very much a 16 multi-disciplinary, multi-topical area center. 17 MS. BITTMAN NEVILLE: Okay. Thank you. Any other 18 thoughts on this idea? 19 MS. CHADWICK: I'll just concur with him, just 20 knowing the situation out at UCF. 21 MS. BITTMAN NEVILLE: Okay. So we've got a 22 concurrence. Any other? 23 Going once. Just kidding. MS. GRANJEAN: Idea No. 9. Creating a Cleantech 24 25 city. Incubation manufacturing and showcase building

1 here in Metro Orlando. Cleantech institutions can be a 2 good way to attract businesses in clean technology. 3 They can serve as business incubators for start ups, 4 work force development and training centers, or showcases for Cleantech products. 5 6 Metro Orlando could construct a free-standing 7 building in Research No. 2 in Innovation Way that would 8 include an incubator, a manufacturing, and a showcase 9 space for Cleantech products. 10 The construction of a 20 acre Cleantech manufacturing center in downtown Los Angeles will serve 11 to showcase the City's efforts to lead in Cleantech 12 business development. The building would be the 13 14 southern anchor of Los Angeles' Cleantech Corridor 15 extending four miles along the Los Angeles River. 16 The Cleantech manufacturing center seeks to attract 17 Cleantech companies and sustainable manufacturers. 18 In New York, the Saratoga Technology and Energy 19 Park in New York State is a true cleantech magnet 20 institution. 21 The Strong Skilled Workforce, for instance, in 22 2005, they said that New York institutions awarded 2,419 23 science and engineering doctorates, along with 1,700 engineering, 2,700 computer sciences, 2,700 physical and 24 25 biological sciences, 675 mathematical degrees. It is a

1 knowledge community for clean energy and environmental 2 technology companies in New York State Tech Valley. 3 Concentration of like industries in an area known 4 for innovation and creativity can generate great 5 opportunity for success. So do you think this is a 6 great idea for Metro Orlando? How does creating a 7 Cleantech city building translate in Cleantech research 8 and development?

9 MS. BITTMAN NEVILLE: So with our idea No. 9 being 10 a Cleantech city, what do you think of such an idea and how does creating this Cleantech city building translate 11 into a true commitment in clean technology research and 12 development? And, again, I know that we have a number 13 14 of different mindsets out there on this idea, so I would 15 invite you to step to the microphone and share your 16 thoughts.

17 See, sometimes the pregnant pause works.

18 AMANDA: Hi. My name is Amanda. I'm a research 19 assistant at the institute working on the Cleantech 20 study, and I read about the City of Destiny, Florida 21 trying to create the first sustainable city in America, 22 and I was interested if anybody here knew anything about that, about the creation. They even said they wanted to 23 24 create a Cleantech hub as well and they wanted it to be 25 like the --

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1 MS. BITTMAN NEVILLE: And the city name again? 2 AMANDA: Destiny. 3 MS. BITTMAN NEVILLE: Destiny, Florida; is that 4 correct? 5 AMANDA: Yes. MS. BITTMAN NEVILLE: Her question is open to 6 7 anyone here if you have any information on it. 8 We'll certainly try to do some research, get you in 9 some information. 10 Anyone else wish to comment? Yes. Please. Come on down. 11 MR. ROSS: Mike Ross with Greater Technologies. 12 Just an observation because I'm an entrepreneur and a 13 14 businessman, and, you know, I think the last couple of 15 ideas all focus in an area that are near and dear to my 16 heart in proving success of any ideas and they're 17 branding and marketing ideas. I think whether we talk 18 about like a Cleantech incubator or the department at 19 UCF or Cleantech City, I think these give our economic 20 development folks, like John Lewis and everybody else in 21 our area, a banner to draw and attract a lot of 22 interest. And I think you have to think along these 23 lines if you're trying to build a catalyst of that 24 everybody here is trying to build. So just that's the 25 observation that it makes good marketing sense to look

1 at opportunities like this. I don't think it's wasted 2 effort and, in fact, it's good money spent to get a 3 clear picture out there in the market as to what Orange 4 County's trying to do. 5 MS. BITTMAN NEVILLE: Good. Thank you. Please. б 7 MR. LAROE: Ken LaRoe. First Green Bank. A quick 8 comment on Destiny. I don't know a lot about them. 9 I've researched them some, I've met with the folks, the 10 principal players at Destiny. They've certainly got some people on staff that their hearts are green. But 11 one needs to look further into the genesis of the 12 development. It is a DRI that was approved by the State 13 14 of Florida. It's huge. I don't remember the size,

15 27,000 acres, 48,000 acres. It's huge. Encompasses a huge part of undeveloped Osceola County that some of the, you know, premiere undeveloped eco systems in the state of Florida. So just need to look very closely at what the genesis of it is and the ability of them to get a DRI for a project like that.

21 MS. BITTMAN NEVILLE: Thank you. Any other22 comments?

23 MR. LEWIS: That building, incidentally, in the 24 picture is the Infomart in Dallas, if you've ever been 25 out of Simmons, near -- just out of downtown. That

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1 really is a showcase for technology. It's a

2 million, six square feet.

3 MS. BITTMAN NEVILLE: Which one is it, John? Which 4 picture?

5 MR. LEWIS: So we could visualize something like that for Cleantech City. I mean, when we meet with 6 7 Cleantech companies, in addition to incentives and other 8 types of -- they're interested in having a place where 9 they can showcase their technologies. You know, we lack 10 preready manufacturing space for all incubator companies really when we get to that stage. The building won't 11 look exactly like that, but when you look at just 12 incubator space and manufacturing spaces for Cleantech 13 14 companies, especially showroom types of facilities, we 15 don't have anything like that. That's a huge development. And you think of Medical City, was that --16 17 what that's doing for us. This would be Cleantech city. 18 Something like Los Angeles is doing.

MS. CHADWICK: Now she segues right into what I was going to comment about. I was hesitating because this does look very expensive and very cool. There's no question that that would definitely be very jazzy, you know, from a brand new perspective, but, you know, I just go back to what all went into making the Lake Nona area, you know, the medical city that it's now becoming.

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1 And it was just so much more than a building or an 2 incubator. You know, the state put, what, hundreds of 3 millions of dollars into economic development incentives 4 to get Burnham here, and, of course, UCF Medical School was approved and is now a reality and what not, and so I 5 6 just would hesitate putting -- you know, this is 7 something I think will take maybe a stage two kind of a 8 thing, after we go through this earlier stage stuff that 9 we brought up in some of the other topic areas. I think maybe it goes in there as a long term, gee, if we get 10 this far, then definitely let's puts some dollars in. I 11 just would be concerned a little bit about putting the 12 cart before the horse. We're still working on some of 13 14 the fundamentals of incentives, and, you know, funding 15 for early stage companies, and we already do have 16 incubators. This would be something that would be 17 another incubator a few years down the road once all 18 these programs are established and working. So, again, 19 I like the idea. So I'm not saying that I don't. I 20 think it's a beautiful thing, but I think it maybe needs 21 to be a stage two, or if we can just get a big corporate 22 sponsor to come in and not let that come out of our tax 23 dollars, because I personally would rather see that go 24 towards some of the things we've talked about already in 25 the job creation and what not.

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1 MS. BITTMAN NEVILLE: Thank you. So the gentleman 2 who's in the incubator, where are you? There you are. 3 And, you know, mentioned that certainly it might be able 4 to give us a so-called banner, and sometimes it might be 5 just the thought of a -- of rebranding, so to speak, and 6 putting some marketing to what we have, and kind of 7 helping to create the perception to others that, yes, 8 we've got the reality of all the different resources 9 that we have. How are we actually marketing them. You 10 know, just a slight change in verbiage can certainly change what you have in existence. And maybe that might 11 be an idea that can help us to indicate that we do have 12 a Cleantech city, or an incubator, those types of 13 14 things. 15 So we shall now hear our last idea. 16 MS. GRANJEAN: Idea No. 10. 17 This is only if we're serious about Cleantech. We 18 should be. I mean, we should be walking the walk, as

incentives, such as a business location incentive, to
more recent policy innovations, specifically Cleantech.
For instance, in the City of Chicago, they offer

they say. Metro Orlando can enact many supporting

policies to attract more businesses to the region.

Policy levers vary from traditional business financial

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residential and commercial developers that build green

an expedited permitting process 30 days instead of 100,
 and a free design review which can cost from \$5,000 to
 \$50,000.

Procurement policies. Portland, Oregon was the
first U.S. city to require that all vehicle fuels sold
in the city contain biodiesel 5 percent or ethanol 10
percent starting in 2007. Some cities require all
government vehicles use those fuels.

9 Other policy initiatives, for instance, Simplified 10 Standardized Energy Efficiency incentive, like a 11 one-page instead of too many pages, that can be 12 confusing. Also extending and expanding solar rebates 13 to add stability to the market, businesses can benefit 14 greatly from that.

15 We could also wish for a statewide uniform green 16 building mandate. For instance, to have a minimum LEED 17 rating of silver for new commercial construction and a 18 minimal viewpoint rating center of 50 points for 19 residential construction. And they are the ones such as 20 renewable energy standards such as feed in tariff for 21 solar and other renewable energy. Allowing consumers 22 production to count to what utilities RPS, for instance. 23 So public policy is the key driver for Cleantech 24 businesses and investing. How can Metro Orlando attract

25 businesses here?

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1 MS. BITTMAN NEVILLE: As we end with idea No. 10, 2 the question is, public policy is key driver for 3 Cleantech businesses and investing. How can we attract 4 businesses here?

5 And I'm sure that we've certainly got some ideas 6 about that. So if you wouldn't mind stepping over to 7 the mic for one last time, at least in this segment of 8 the program. How do we attract businesses? What is 9 your one key idea that you would like to share with the 10 group?

11MR. BRUDERLY: Madam Chairman, Dave Bruderly.12MS. BITTMAN NEVILLE: Yes.

MR. BRUDERLY: Policy is what this is all about. 13 14 We have lots of technology, we have lots of people who 15 can implement technology. What we need is policy that 16 redirects investment into the most cost effective ways 17 of achieving your goals. In this case, a green economy. 18 And we need indicators of what defines green. And I 19 think there are indicators that work very well in the 20 field of energy, and in the field of water, in the field 21 of land. And I really think it's important that local 22 governments codify those policy goals into these very 23 simple performance-based indicators or sustainability 24 indicators, and then you modify your ordinances to 25 follow those, and that will then direct funding money

1 into achieving those goals. The Destiny project was 2 mentioned. I mean, it's a wonderful concept except for 3 the fact that it's out near Yeehaw Junction, which is a 4 long way from nowhere. And the reality is just driving 5 in here this morning -- and I had to drive because there is no affordable, convenient public transportation in 6 7 this region -- I saw a lot of empty office space that 8 had been built on a spec level. There are huge 9 opportunities to redevelop existing areas that have 10 already been paved over, that are underserved with sustainable infrastructure. And redevelopment of these 11 12 areas with sustainable infrastructure, both private sector and public sector investment, not into building 13 14 out into cow pastures and citrus groves, but into 15 redeveloping what we have, can only be implemented with local ordinances. And it's essential that we start to 16 17 have this debate. And I know in our community we're in 18 the AR review process right now, which is the 19 environmental assessment review for the comprehensive 20 plan. And I think these concepts need to be 21 communicated back to your elected officials at the city 22 and county level and integrated into the comprehensive 23 plans in ways that are easy to understand, they're not 24 archaic, and ways that you can take -- that a developer 25 and entrepreneur, a property owner, can take them to the

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bank and get financing to implement this stuff. And if we don't have money, we can't do anything. So we've got to be able to use what credit we have left to implement and to change our policies and implement these ideas in ways that make economic sense. And that's been missing in the State of Florida. We need to fix that.

Thank you.

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8 MS. BITTMAN NEVILLE: Thank you. Any comments?9 Please.

10 MR. LOGAN: Hi. Paul Logan. Calypso Building. I agree with Dave. I think that this might be the key for 11 the whole thing. And let me just use one example. 12 Hawaii last year, 100 percent of new buildings have to 13 14 have their hot water heated by the sun. So here's one 15 code that was changed, and out of that, if you look at 16 some of these green collar jobs, they're going to be 17 demanding more education that will pull that, reaching 18 No. 1, the renewable energy. That will go along. So we 19 need some kind of leadership from the state that can 20 turn most of these things on their head overnight and 21 produce a level playing field. For, as a builder, if I 22 go in, I'm competing against everyone who's not doing it 23 the same way. And so you get individuals who are 24 willing to invest in green, but as far as the 25 marketplace when you're building spec homes, you

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1 sometimes actually choose to put three electrical 2 outlets versus four because you know that will save you, 3 and it's a spec home and you're not going to get that 4 money back. So if you're -- you know, from a builder, 5 if you're looking at little things that cost a dollar or \$4 or things like that, and you're making decisions, and 6 7 then you look at, will you put a solar on the roof that 8 might be thousands or tens of thousands, it's not going 9 to happen. And the code will do that. 10 MS. BITTMAN NEVILLE: Thank you.

11 Please.

MR. PIERCE: Cary Pierce. You had mentioned how do 12 we bring the businesses. Being as that's my job, 13 14 bringing businesses to Lake County, looking at the 15 different policies that exist, not only in Lake County 16 but throughout Metro Orlando, a lot of different 17 government entities countrywide have a lot of incentives 18 that are already in place. They do have a lot of rapid, 19 fast permitting processes that are already in place. 20 It's for target industries that they want to identify to 21 bring into those areas. Some of the cities have these 22 same type of incentive programs that are there. I 23 really think what it comes down to is maybe the thing I 24 talked about earlier with the Cleantech program manager. 25 It needs to be more of a situation where you have an

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1 individual and/or entity that realizes the importance of 2 stressing this towards the Cleantech and structuring it 3 and designing it towards Cleantech. A lot of the things 4 that are currently there, these incentives, Cleantech 5 fits into what's currently there. So it's not a matter 6 of rewriting or totally abandoning existing policies and 7 putting in new ones, it's taking the ones that already 8 exist, and we need to tweak it a little bit, do we need 9 to adapt it, or just leave it the way it is and 10 recognize that Cleantech is an aspect of this and implement it from that standpoint. The other thing as 11 12 far as bringing businesses in, it's not so much having the policies in place, it's how you implement those 13 14 policies and also how you let these business entities 15 know that these policies are implemented. Information 16 is available to anyone through the Internet. There's a 17 lot of entities and organizations that exist to go find 18 places for businesses to go. And they read all of these 19 different incentives that are out there. And every 20 county has them, every state has them, every city has 21 them. So where the differentiation factor becomes is in 22 the work force development, is in the demographics that 23 exist, and also how these policies are implemented. If 24 they have a successful track record, then the business 25 is more likely to go. If they don't have a successful

1 track record, you're not even on the table anymore. So
2 it becomes how we implement for whether the businesses
3 come or not.

MS. BITTMAN NEVILLE: Thank you.

Please.

4

5

MR. LAROE: Ken LaRoe again. The last question was б 7 if there is any other ideas, and another idea that I would propose that kind of falls into the policy lever 8 9 is the fastest thing I think Orlando could do, or most 10 any municipality could do, would be to mandate, implement, however you want to look at it, an energy 11 upgrade to all of the buildings that are publicly owned. 12 This can be a school system, it can be a county 13 14 government, city government. And the programs are 15 already in place to do this. The State of Florida has 16 the local government energy retrofit program, and at the 17 worst case, these are revenue neutral. At the best 18 case, they're revenue enhancing. And then with the 19 current administrations leaning with the economic 20 recovery program, there is certainly going to be funds 21 flowing down federally, and I think this is something 22 that would instantly happen, it would instantly create 23 the training, it would instantly create everything else 24 we've been talking about.

25 MS. BITTMAN NEVILLE: Good. Thank you. That, of

1 course, ends the presentation of our 10 ideas, and the 2 only thing that I would just like to say is just, hats 3 off to all of you. Thank you very much. 4 We now will go into our open forum, and we invite you at this point to either continue to expand upon one 5 6 of the ideas that you have heard about, or if you and 7 your company would like to present what you have to 8 offer in this area and topic, you are more than welcome 9 to come down. We'll allow the individuals to have two 10 minutes. So, yes, ma'am. Please come on down. 11 12 MS. HOPCRAFT: My name is Cynthia Hopcraft with Eco Clean Solutions. 13 14 MS. BITTMAN NEVILLE: Just so that everyone can see 15 you, why don't you come over here, if you don't mind. 16 That way, everybody doesn't have to try to see you 17 around the corner. How's that? 18 MS. HOPCRAFT: Okay. My name is Cynthia Hopcraft 19 with Eco Clean Solutions. And to break the prejitter 20 public speaking moments, I'm a native Orlandoan. I've 21 been in the telecommunications industry for 35 plus 22 years, and the product that I am promoting is called 23 Symic Solutions, and the active ingredient in this product is titanium dioxide. It is suspended as nano 24 25 particles of TI02 in a proprietary solution, and is --

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1 TI02 is in many everyday products. Toothpaste, sun 2 block, gum. Everything you can imagine. Just start looking at your labels. It's in eye shadow. Anyhow, 3 it's a very extensive list of where titanium dioxide 4 5 exists. Titanium is a natural mineral. In a nutshell, Symic Solutions prevents mold, mildew, and algae growth. 6 7 It eliminates and/or controls bacteria and viruses. It 8 can be applied to any vertical or horizontal surface, 9 includes residential settings, commercial settings, such 10 as hospitals, schools, office buildings, government buildings, and this product has been approved for 11 government purchase orders. Symic Solutions works along 12 with the sunlight, indirect sunlight, indoor lighting 13 14 and oxygen is generated in the process. In many 15 applications, it will reduce greenhouse gas emissions, 16 and it has UV protection capabilities. The product can 17 be reformulated to remove the UV block capabilities. 18 The use of Symic creates self cleaning buildings, 19 automobiles, building roofs, sidewalks, and an endless 20 list of other vertical and horizontal surfaces, and it 21 can create jobs now. Some of the job opportunities just 22 off the top of my head are application technicians. We 23 can be very easily trained and quick and easy. 24 Supervisory positions, distributor and dealership 25 opportunities. And, in closing, Symic Solutions will

1 save millions of gallons of water. It will eliminate
2 hash and harmful cleaning agents currently used in many
3 different industries and residential settings and
4 markets. It saves times and money, and it will be a
5 large contributor to the Cleantech initiatives in Orange
6 County and around the world.

7 MR. LEWIS: Cynthia, can you share a couple of the 8 larger facilities where the product's already being used 9 or is slated to be used?

10 MS. HOPCRAFT: Yes. One of the test sites was at the Dolphin Stadium in Miami, and they tried just a 11 certain area for about three or four months, and now 12 they -- we have a statement from the head maintenance 13 14 engineer there to say that for the past three years 15 Symic Solutions has solved a lot of their problems. And 16 there's also been things down at University of Florida, 17 University of Central Florida from what I understand, 18 and hospitals around the country. 19 Any other questions?

20 MS. BITTMAN NEVILLE: Thank you.

21 MR. LAROE: Ken LaRoe. I'm the CEO of First Green 22 Bank. Anybody that's got my card, you'll see, in 23 organization. As of yesterday, we're no longer in 24 organization. We opened our first two offices in Eustis 25 and Clermont, so that was a really big day for us. Our

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1 initiative with the bank is we're a bank, we're a bank, 2 we're a bank. We loan money, we loan money. To a guy 3 that wants to do a slash and burn five acre development, 4 kicking and screaming, I'll loan him money, and I will try to educate him to the benefits of doing something 5 better. We are going to try to attempt to influence 6 behavior. Of course, we can't mandate it. We're 7 8 offering interest rate incentives to anybody who will 9 build a LEED building. And the incentive is deeper the 10 deeper you go into the certification, of course. The other thing we're involved with right now, I've got two 11 loan requests in front of me for green field solar in 12 the Gainesville, GRU feed in tariff thing. So I can 13 14 tell you firsthand, that absolutely works, because the 15 entrepreneurs are coming out of the woodwork to try to 16 do that type of project. It'll be new to us. I've never financed one before, nor do I know anyone who has. 17 18 So I'm working closely with my attorney to develop the 19 documentation necessary. We'd also like to try to 20 provide a packaged loan to preferably commercial 21 entities to do solar. We feel we've done some research, 22 and you guys who are in solar probably already know 23 this. I didn't, and it surprised me as a banker. 24 There's a very large ready market for used PV, and so 25 then the light bulb went off to me. You know, how do

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you finance this stuff? Well, you finance a pool for 1 2 somebody or a home improvement, do a kitchen remodel, 3 you can't go take their granite countertops, you can't 4 take their pool if they stop paying, but we can structure the documentation, I believe, with UCC 5 6 filings, and if somebody doesn't pay us, we can go send 7 a crew out and take the PV off the roof and resell the 8 darn thing. So I think we're going to be in the cutting 9 edge of that documentation legal/financial end of some 10 of the financing on this. Also, the Florida local government energy retrofit program is something that I 11 12 think we'll be hearing more about. There is, I think, 10 certified retrofitters that have been approved by the 13 14 State. They have to be approved because when they go in 15 and do the audit, if the entity does not experience the 16 savings that they say they will experience, then they 17 have to make up the difference. And these are not 18 little, you know, small bit players, they're companies 19 like Johnson Controls, and we were looking at a couple 20 projects for some cities to do that. And for us, as a 21 bank, that's easy because we can easily underwrite a 22 city. We can easily underwrite a county. It's no 23 different than bond underwriting. And what they're 24 finding is that, not only will the savings usually pay 25 the loan back, but there is enough savings to pay the

loan back plus embellish general revenue. So keep all that in mind. If anybody's got any ideas, please give me a call. We're on the -- we've got a website that -the good one just went live yesterday, so it's probably not going to work, but it's, you know, First Green Bank. Google it, we're there. So thanks.

7 MS. BITTMAN NEVILLE: Thank you. Anyone else? We
8 have two minutes.

9 Last two minutes, sir.

10 MR. ALLER: Hello. My name is Michael Aller. I'm with CO2 Scorecard Group. We're a group of researchers 11 and investors both here in Central Florida and quite a 12 few of us up in Washington, D.C. who are putting 13 14 together an initiative to create a website to create 15 benchmarks for energy efficiency and actually set up a 16 system whereby we can look at public available 17 information on states or on -- especially on public 18 utilities and help them help create a listing of how 19 they're doing on their energy efficiency, how they're 20 doing on there carbon emissions. And this is not 21 something which has so far been publicly available. So 22 we're in the process of setting up a prototype. And we 23 have a website. It's called CO2scorecard.com, all 24 together. And I'm happy to talk to anyone about it 25 afterward. Thanks very much.

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1 MS. BITTMAN NEVILLE: Thank you. 2 Well, it has been my pleasure to facilitate this 3 morning's activities in presenting you the 10 ideas. We 4 certainly appreciate your time, your participation and 5 your input, and we're done. So I'm going to turn it 6 back to John. 7 MR. LEWIS: Not quite. MS. BITTMAN NEVILLE: Not quite? And, again, thank 8 9 you so much. We hope that you will complete your survey 10 card and turn that in as you leave. We will be compiling that and then presenting the information. 11 So I'll turn it back over to John. 12 MR. LEWIS: Nyda, thank you very much. 13 14 MS. BITTMAN NEVILLE: Thank you. Thank you very 15 much. 16 MR. LEWIS: If you'd like to know more about what 17 Nyda does, her website is TNB Group. Tnbgroup.com. And 18 I would encourage you all to visit and find out all the 19 different kinds of things that she does. This is just 20 one small part of what she can contribute to your 21 organization. 22 I also want to thank Leslie Richmond. Leslie, 23 could you just raise your hand up? 24 She just missed a beat on what she's typing there. 25 But she's been here for all three symposiums, and

1 because of her good work -- she's with Zacco & 2 Associates, Z-A-C-C-O. I don't know the website for 3 that, but I -- that sounds like something that would come pretty easily to the top of Google if you want to 4 5 look at that. Because of her good work, we're able to 6 e-mail out to you the full written transcript of every 7 one of our symposiums. You know, you go to a lot of 8 conferences, and events, and symposiums, and it's 9 interesting and you make notes and so forth, but, you 10 know, a lot of times, we leave, go back to our jobs, and the next day we can't quite remember what was said, 11 especially a couple of months later. We want these 12 13 symposiums to have lasting value, so we have full 14 written transcripts of every symposium and a full video 15 of every presentation and every discussion session, and 16 we will e-mail -- we do e-mail out the links to those 17 videos. And as soon as we can, we're going to upload 18 all that to the Orange County website so you'll have 19 that.

I also want to thank Christa Santos. She has done
a lot of work in organizing these events, and she
deserves special recognition.

And I also want to, once again, if they're still here, recognize Jim Williams, Shawn Wattles. Are they still here?

1 Stand up so everybody can see you. With Mitsubishi 2 Power Systems. You saw some of the exciting things just 3 on the slide of what they're doing, and I would 4 encourage you to look at that website and just see all 5 the different kinds of things that Mitsubishi is doing 6 here. They monitor, for example, all of their power 7 systems in the western hemisphere from here. You don't 8 realize a lot of times what some of our major companies 9 are doing, but they're doing a lot and they're putting 10 us on the map. Also, Tom Bland with AquaFiber. Is Tom still here? 11 MS. BITTMAN NEVILLE: He left. 12 MR. LEWIS: He has helped us with each one of our 13 14 seminars, and we appreciate that. 15 And, of course, Jim Weaver with the Downtown Center 16 that hosts us, and Amy Edge -- Amy Edge Didgemore with 17 the EDC. 18 Jacques is here for the rest of the day, and 19 tomorrow we're going to be visiting Medical City. We're 20 going to be visiting UCF. And so he's going to be well 21 acquainted with what we do and we look forward to a 22 close relationship with Jacques as we move forward and 23 we learn from each other. 24 So thank you very much for coming, and I think the 25 next symposium, the dates not been set yet. We'll let

1 you know. It will probably be a presentation of the 2 draft of the Cleantech study on our assets, capabilities 3 and possibilities that we'll be preparing that hopefully 4 will provide guidance in helping our Mayor, Rich Crotty, 5 give one more punch to his lasting legacy, and also 6 provide a few ideas for the next mayor when he comes in. 7 So we look forward to this to be a very meaningful 8 process, and we could not do it without all of you here. 9 I think just in a discussion of the various ideas, some 10 of the ideas I thought were pretty popular, you all didn't think those were the highest priority, and maybe 11 we all felt that a little bit, but that feedback that we 12 got from you today really is going to help in providing 13 14 a sense of direction to Marielle and Sean as they move 15 forward and further develop their study. 16 And I think Marielle Granjean deserves special 17 recognition, too, for the great job she did in putting 18 together those 10 ideas culled out of dozens and dozens 19 and dozens of them. So I applaud you. 20 And thanks for coming and we'll see you next time. 21 (Meeting concluded at 11:45 a.m.) 22 23 24 25

CERTIFICATE OF REPORTER 2 STATE OF FLORIDA COUNTY OF ORANGE I, Leslie Richmond, Registered Professional Reporter, certify that I was authorized to and did stenographically 5 report the foregoing meeting, and that the foregoing transcript, including 134 pages, is a true and complete 6 record of my stenographic notes. Dated this 9th day of March, 2009. Leslie Richmond, RPR and Notary Public (This signature is valid only if signed in blue ink.) 

A	98:11 119:17	administration	agencies 90:17	65:2
abandoning 123:6	120:1	48:4 49:2 51:11	agenda 59:1 91:23	America 7:11
abatement 48:3	ACIC 21:21	administrations	agent 56:25	112:21
<b>ability</b> 114:19	AcquaFiber 3:6	124:19	agents 41:1 127:2	<b>amount</b> 28:13
able 7:7 19:11	acquainted	administrator	ago 25:20 27:1	29:9,20,25 45:9
21:23 38:4	133:21	8:11 55:20	45:21 53:17	51:22 53:13
42:19 48:10,11	acquisition 16:7	admit 54:18	55:16,16 57:6,6	56:5,7 57:12
56:8 66:15	43:11	adopt 104:11,17	69:2 85:6	71:10 72:7,23
83:13 96:21	acre 105:18	adopted 40:21	<b>agree</b> 47:18 75:9	75:16 77:23
117:3 121:3	111:10 128:3	64:23 89:1	88:20 100:3	amounts 77:21
132:5	acres 105:3	adopters 18:1	121:11	<b>Amy</b> 133:16,16
abroad 82:4	114:15,15	adopting 104:6	agreeing 100:5	analogy 55:15
	act 25:19 73:24	adoption 65:25	agreement 20:5	analysis 73:25
absolutely 94:8	95:17,20	103:14	ahead 2:3 19:19	93:19
95:7 128:14	<b>active</b> 41:2 73:2	advanced 15:15	41:19 54:14	anchor 111:14
<b>AB32</b> 25:19 29:1	98:6 108:24	22:14 35:17	air 37:12,12,16	<b>Anderson</b> 109:14
30:23 48:9,25	109:6 125:23	86:16 97:20	65:11 79:2	109:14
56:23	actively 52:9,18	98:3 99:6	81:25	and/or 123:1
<b>AB811</b> 18:7	activities 131:3	108:15	air's 79:2	126:7
academia 74:20	<b>actual</b> 39:10	advances 108:12	<b>aisle</b> 61:15	angel 29:10 75:13
90:25 92:9	Adam 62:2,2,2	advanteg 108.12 advantage 22:20	algae 3:9,10 33:7	Angeles 81:21
109:23	67:18	31:2,6 42:21	33:8 126:6	111:11,14,15
academic 98:5	adapt 34:8 123:9	94:12 98:11	<b>align</b> 15:1	115:18
108:18 109:17	adapt 34.8 123.9 add 19:10 50:11	106:13	Aller 130:10,10	angels 44:25
110:12	106:8 118:13	advantages 54:9	<b>Alliance</b> 32:22	99:21
academy 84:10	added 9:13,24	advantages 34.9 adverse 67:5	70:16 96:7	<b>animal</b> 34:14
accelerate 74:18	43:3 67:1	advises 14:22	alliances 14:19	38:20 39:15
76:23	<b>addition</b> 86:24			
accept 89:19		advising 16:9	allocated 101:7	animals 34:14
access 98:4 99:20	115:7	90:17	<b>allot</b> 61:25	<b>Ann</b> 41:18,20
accessible 73:7	additional 38:17	advisory 13:7	<b>allow</b> 10:3 44:11	72:3 100:2,3,10
<b>accident</b> 69:3,5	45:13 62:12,14	14:23 90:19,24	50:11 62:18	100:18
accolades 7:15	62:23 80:6	91:9 92:10	84:11 89:21	<b>announce</b> 19:3
accompanied 70:9	address 42:11	advocate 77:12	93:18 125:9	92:16
accomplish 93:14	45:2 47:6 68:6	99:15	allowance 51:22	announced 17:10
100:9	81:16	aerospace 17:15	allowances 51:18	17:10 18:3
accomplishment	addressed 68:5	23:13	Allowing 118:21	19:20
69:2	addressing 42:4	affect 6:23 10:9	allows 18:7,19	<b>Ann's</b> 78:16
account 76:12	101:3	10:23	39:17	102:18
achievahle 71:17	adequate 89:20	afford 80:10	alongside 96:22	answer 22:8 47:19
71:24 72:16	101:20	affordable 73:24	alternative 80:22	56:22 66:4
73:19	adhesive 39:20	74:1,7 78:24	Amanda 112:18	77:16 95:7
achieve 26:15	adjust 25:3	120:6	112:18 113:2,5	answered 37:1
46:23 69:9,11	adjustment 49:23	Africa 37:8	amazing 38:23	48:25 51:9
achieves 79:11	49:24	afterward 130:25	39:12,14 57:6	<b>answers</b> 34:9 35:5
achieving 78:19	administer 71:8	age 55:8	ambitious 64:9	anybody 80:3

92:21 112:22	72:25 83:20	assistance 43:12	automotive 85:7	<b>badge</b> 58:23
127:22 128:8	89:20 94:13	43:12	86:4,10,20	bag 21:19
anybody's 130:2	110:16 112:3	assistant 18:9	available 6:10	Bainbridge 15:6
anymore 39:12	113:15,21	96:19 112:19	17:25 18:1 73:6	balance 31:13
124:1	115:25 125:8	assisted 62:1	73:18 74:9	balanced 67:8
anytime 12:5	127:12	associate 109:15	75:13 78:22	ballpark 41:5
anyway 99:22	areas 22:17 23:9	Associates 1:23	81:19 93:15	bang 109:1,8
apart 53:18	25:16 35:19	11:17 132:2	94:4,9 95:1	Banius 35:3
apparent 39:12	36:16 38:7	Association 70:23	106:10,14	<b>bank</b> 69:16
appeared 95:8	50:16 57:15	atmosphere 58:11	123:16 130:16	104:21 114:7
applaud 134:19	59:10 67:5 94:6	Atomic 21:22	130:21	121:1 127:22
application	116.9 120.9,12	Atomics 16:5	average 18:12	128:1,1,1,2
126:22	122:21	attempt 128:6	19:1 20:22 25:9	129:21 130:5
applications 32:4	area's 97:21	attendance 12:7	71:4	banker 128:23
92:22 97:2	arguments 10:8	attention 56:2	avid 39:6	<b>banks</b> 77:10
126:15	arrangements	100:25 102:6	award 45:8 73:13	banned 38:21
applied 126:8	76:19	attorney 128:18	79:10	banner 113:21
applies 25:6	array 99:2,17	attract 14:21	awarded 17:2	117:4
apply 27:9 29:7	art 108:13	16:20 17:22	74:17 75:4	barriers 14:25
38:13 92:22	articulate 100:8	22:23 91:2	111:22	<b>base</b> 99:5,5
appointments	100:18,25	96:22 111:2,16	aware 86:7	<b>based</b> 29:23 30:18
109:19	articulated 100:4	113:21 117:20	awhile 69:2	37:18 38:19
appreciate 3:8	articulating 88:17	118:24 119:3,8	<b>a.m</b> 1:12,12 59:2,2	40:16 71:8
51:5 62:5,24	Arts 84:7	attracted 44:25	134:21	72:16 78:3
131:4 133:14	aside 101:12	attracting 10:1	A123 97:21	98:19,23
appreciated 54:22	asked 3:17 11:3	29:17 57:25		basic 29:7 85:21
approach 67:3	36:14	104:9,15	B	basically 21:2
90:3,4 101:11	asking 49:20	<b>audience</b> 6:1,17	bachelor's 15:10	26:25 32:5
approaches 89:16	58:25 68:25	7:9	back 9:21 10:10	38:13 40:6
approved 49:10	80:13	audit 19:12	10:12 12:4	49:20 50:11
114:13 116:5	aspect 7:4 16:8	129:15	14:10 18:21	51:3 72:21
126:11 129:13	31:15 36:18,19	auditor 81:25	26:18 29:1	95:10 105:5
129:14	41:16 47:23	Austin 9:17 12:23	32:21 33:13	<b>basis</b> 42:13 46:25
<b>April</b> 17:10	78:17 94:1	22:1,9,10 81:2	38:3 40:2 51:3	battery 86:16,17
AquaFiber 51:8	123:10	91:15,19 96:13	55:16 62:15,18	86:23 97:20
133:11	aspects 20:25 36:2	96:14,15,19	69:1 76:20	<b>battle</b> 44:13 53:15
AR 120:18	39:23 83:9	Austin's 96:13	77:13 88:6	Bay 22:3 37:20
archaic 120:24	assembly 18:6	Australia 59:12	100:22 106:3	bear 89:7
area 2:17 10:23	assessment 16:16	authorized 135:4	107:13 115:24	beat 131:24
12:15 14:16	18:8,19 21:12	autionized 135.4	120:21 122:4	beautiful 116:20
21:4 22:3,4	71:2 120:19	automatically	129:25 130:1	beauty 18:22
28:25 29:8 34:3	<b>assets</b> 12:14 17:19	110:9	131:6,12 132:10	becoming 57:24
34:22 37:20	41:23 94:8	automation 86:13	backside 62:20	115:25
39:23 53:5 55:3	134:2	automation 80.15	bacteria 126:7	beginning 3:7
56:1 58:7 66:3	assist 38:2 91:11	126:19	bad 5:6	8:23 83:15
30.1 30:7 00:3	assist 30:2 91:11	120.19		0.23 03.13

			<u> </u>	
behalf 8:4	billions 70:20	72:19 73:20	85:14	<b>brush</b> 61:1,2 67:4
behavior 128:7	bills 66:13 72:17	74:12 75:21	box 8:16	<b>buck</b> 109:2,9
believe 32:12	bio 34:1 99:5	77:15 80:1,14	<b>BP</b> 97:7	<b>bucket</b> 44:20
55:13 67:7 69:7	102:24	83:3 84:1,24	brag 3:4	<b>budget</b> 77:14 78:2
85:15 92:6	bioconversions	85:3 87:5 88:5	brains 8:3	<b>budgets</b> 6:20,20
98:13 129:5	23:15	89:11 90:7 92:5	brainstorming	77:13
benchmark 16:15	biodegradable	92:19 94:5 95:4	59:21	<b>build</b> 17:19 23:1
18:2 21:25	39:21	95:24 98:13	brand 59:18	26:16 113:23,24
56:17	biodiesel 33:7	100:2 101:8	115:23	117:25 128:9
benchmarks	94:10 118:6	102:9,14 103:9	branding 41:16	<b>builder</b> 121:21
130:15	biofuel 23:24	104:13 105:23	102:17 103:5	122:4
benefit 8:18 11:1	57:13	107:5,22 109:4	113:17	building 16:23
31:4 43:5 54:4	biofuels 22:15	110:17,21 112:9	break 15:3 23:15	22:14 24:5,11,12
68:10 70:6,17	23:15 97:3	113:1,3,6 114:5	37:11 51:21	25:5,6 43:9
102:4 106:3	108:16	114:21 115:3	58:21 59:2	53:18 56:24
108:23 109:5	biological 110:7	117:1 119:1,12	125:19	74:10 76:17
118:13	111:25	121:8 122:10	breakthroughs	81:8,19 88:13
benefits 52:21,23	biologist 33:6	124:4,25 125:14	79:6	103:19,23 104:4
65:9 70:4 128:5	biologists 37:4	127:20 130:7	brick 94:24	104:6,12,17,24
Berkeley 18:6	biology 35:22	131:1,8,14	brief 16:12 69:15	105:10,11 106:4
19:18 70:15	36:1	133:12	85:11	106:10 107:1,9
97:3,9,10	<b>biomass</b> 64:10	bi-local 13:3	briefly 4:13	107:10,16,21
best 2:17 4:23,25	biomimicry 17:3	<b>black</b> 67:11	bright 38:4	110:25 111:7,13
5:5 7:14 10:17	33:24,25 34:1,8	<b>Bland</b> 3:6 51:8,8	bring 8:7 33:13	112:7,11 114:23
13:12 43:2 55:8	34:15,17 35:4,21	52:4 133:11	59:10 83:18	115:11 116:1
55:14 65:15	35:22 36:5,13,15	<b>blend</b> 102:20	91:7,23 98:13	118:16 120:13
106:21 124:17	36:22 37:1	<b>blip</b> 85:12	122:13,21	121:10,25
<b>better</b> 6:4 7:21	39:22 47:4	block 126:2,17	bringing 37:2	126:19 128:9
14:6 55:11	<b>Biosciences</b> 97:4	<b>blown</b> 79:3	99:18 122:14	buildings 20:24
69:18 72:13	biotech 17:15	<b>blue</b> 73:9 94:18	123:12	23:19 24:1
106:12,12 128:6	23:11,14,23,25	94:18 135:11	<b>broad</b> 13:17 21:16	26:16 37:14
betting 34:25	27:17 54:24,25	<b>board</b> 13:7 71:1	61:1,2 67:4	40:7,8 57:12,13
beyond 14:4	94:10	91:9 92:11	broader 98:23	57:23 80:22
27:15 58:12	<b>bird</b> 39:6,8,10	<b>bond</b> 129:23	<b>Bronx</b> 108:19	103:15,16,17,21
104:6	Bishops 87:8	<b>book</b> 35:3	brought 72:1,15	103:25 104:7,14
<b>bias</b> 110:2,10	<b>bit</b> 16:22 24:18	<b>books</b> 27:7	116:9	107:13 121:13
<b>big</b> 15:2 20:19	52:22 53:15,16	<b>boom</b> 39:2,11	Broward 85:24	124:12 126:10
44:23 73:9	58:16 77:6	border 31:5	brown 37:21,22	126:11,18
116:21 127:25	78:15 88:7	borrowed 54:17	Bruderly 45:25	<b>built</b> 37:24 38:15
<b>bigger</b> 78:15	116:12 123:8	<b>Boston</b> 22:1 97:12	45:25 49:6,9	107:17 120:8
<b>biggest</b> 45:22 48:7	129:18 134:12	97:21 104:8	50:23 67:15,15	<b>bulb</b> 128:25
51:17,19 54:9	<b>Bittman</b> 59:3,8	<b>bottom</b> 29:15	72:20,20 78:17	<b>bullet</b> 22:8 38:24
56:4 74:10	65:23 66:24	37:13 39:16	78:17 85:1,1,5	39:1,6 45:23
<b>bill</b> 18:6	67:14 69:13	86:20	95:5,5 105:24,24	48:20
<b>billion</b> 34:4 70:16	70:2 71:18	<b>bought</b> 37:19	119:11,11,13	<b>bunch</b> 84:22
		 		l

<b>burn</b> 105:5 128:3	97:8,16	130:20	133:15	challenges 52:21
Burnham 116:4	California-Ber	card 18:17 127:22	centers 20:3 101:2	52:23 54:11
<b>bus</b> 46:13	97:5	131:10	111:4	challenging 93:25
<b>buses</b> 85:14	call 6:2,12 11:16	cardboard 23:16	Central 2:7 5:17	chamber 67:25
<b>business</b> 4:3 14:21	37:2 64:14	care 86:5,25	8:15 41:20,25	68:3 91:16
41:21 45:12	83:23 105:5	careful 105:14	73:21,22 81:2	chance 41:22
66:11 75:1 76:6	130:3	carefully 81:14	83:12 99:14	62:19
76:6,13 85:18	called 17:7,8 18:7	Carol 41:18,20	127:17 130:12	change 20:20 26:3
90:25 92:8	23:23 25:18	72:3 78:16	centralized 98:21	26:15 46:21
95:11 96:8	26:24 30:17	100:2,3,10,18	centric 100:15	47:14 48:15
98:10,16 101:10	31:16 33:24	102:17	cents 49:12 71:4	68:4 71:7 86:14
108:2,11 109:12	36:10 39:7	Carolina 104:8	CEO 59:8 69:15	86:20,22 105:19
111:3,13 117:21	45:19 46:1	carried 37:13	86:13 127:21	105:19 106:18
117:22 123:14	49:24,24 125:22	108:14	<b>CEO's</b> 102:24	117:10,11 121:4
123:24	130:23	carrot 57:17	certain 56:20 67:5	changed 17:6
businesses 6:5	calling 67:11	cars 48:23	127:12	105:21 121:15
66:9 70:12,18	Calypso 121:10	cart 89:9 116:13	certainly 7:14	charge 49:23,24
73:7,10 74:9	Cambridge 97:17	Cary 68:22 69:20	90:8,9 94:5	51:18
80:11 91:2,7,24	cameras 3:13	92:24 122:12	113:8 114:10	charged 64:25
93:17,17,20	campaigns 13:4	case 65:15 69:3	117:3,10 119:5	chart 29:5 101:16
111:2 117:20	Canada 59:12	77:20 100:17	124:20 131:4	charter 36:10
118:13,24,25	cancel 24:2	106:19,22	CERTIFICATE	<b>chat</b> 3:12
119:3,4,8 122:13	сар 47:25 49:3,6	119:17 124:17	135:1	chatted 43:22
122:14 123:12	49:15 51:10	124:18	certification	chatting 4:13
123:18 124:2	capabilities 12:15	cases 22:22 30:24	35:23 81:8	cheap 78:23
businessman	12:20 40:7	<b>cash</b> 80:13	128:10	cheaper 19:17
113:14	126:16,17 134:2	catalyst 113:23	certified 25:11	cheapest 81:16
butterfly 37:20,22	Capacitors 15:15	catches 95:22	103:17,21	<b>check</b> 101:5
buy 18:17,22,25	capacity 5:16 82:5	category 40:18	129:13	cheerleader 3:7
49:21 51:23,24	capital 20:7 21:16	cater 21:22	certify 135:4	chemical 40:24,25
68:18	23:3 45:2 96:22	caused 105:5	cetera 67:10	chemicals 36:25
buying 68:14,18	97:16 98:4	caveat 78:3	Chadwick 2:2,5	39:21
buy-ins 93:8,9,9	99:11,21 102:5	<b>cell</b> 35:11 81:9	43:20 44:1,15,19	chemistry 40:22
<b>buzz</b> 11:6 100:11	capitalism 67:20	cellular 110:6	44:22 45:16	chemists 37:3
	capitalists 47:15	cellulotic 3:10	58:20 72:1,2	Chicago 117:24
C	capitalize 23:10	<b>center</b> 1:13 4:2	77:18 88:6	chicken/egg 84:4
C 2:1	caps 56:20	16:25 26:25	100:3 110:19	<b>chief</b> 5:15
California 15:9	capture 61:18,20	27:1 28:6,15	115:19	children 6:25
18:5 20:21	62:12	71:1 81:3 91:13	Chairman 119:11	<b>chip</b> 73:9
22:21 25:2,9,18	<b>car</b> 33:4 86:18	97:3 103:23	challenge 17:1	<b>Chirazi</b> 2:16 4:16
30:20 40:21	carbon 20:17	106:6 107:15,25	25:7 31:1,16	14:14 15:21
48:9,16 50:18	46:16,17,19,24	108:4,4,10	42:18 43:17	40:11,14,18,21
52:1 56:13,22	47:8,21 48:2,3	109:15,20,20,22	45:3 53:13 54:2	41:6,8 42:12
65:3 73:3 74:22	68:17 73:15,16	110:3,16 111:11	68:8 74:16	43:25 44:5,18,21
79:4 96:21 97:3	85:10 95:18,18	111:16 118:18	75:16	45:4,18 47:18

Page	5
------	---

49:8 50:6 51:7	115:16,17,25	29:18 31:16,22	Clermont 127:25	<b>colors</b> 37:23
51:13 52:25	117:13,24 118:5	42:15,15,18	client 99:5 102:13	combination 37:3
55:5 56:21	118:6 120:21	43:17 44:8	102:15,22 103:4	48:19,22
75:11 90:14	123:20 124:14	45:20 52:11,12	103:4	<b>combined</b> 96:24
92:18	129:22 133:19	52:16,18,19 53:2	clients 59:11,13	combining 96:5
choice 59:15,15	<b>City's</b> 25:4 91:23	53:7,11,25 54:17	61:23 103:8	come 4:22 10:18
choices 77:3	108:21 111:12	54:24 55:7,25	climate 58:13	12:11 14:10
<b>choose</b> 77:22,22	city-owned 96:18	56:16,19 57:9,10	63:6 68:4 71:7	15:24 16:23
122:1	clarification	59:24 60:2,3,6,9	<b>climb</b> 61:16	20:5,7 26:18
<b>Christ</b> 64:20	100:9	63:10,11,20,21	<b>clone</b> 92:18	29:18 30:19,25
Christa 58:22	clarify 44:1	63:23,24 64:16	<b>close</b> 25:10,11	34:18 35:11
132:20	classes 81:9	65:21 66:3	102:21 133:22	36:21,21 37:12
circumstances	<b>clean</b> 6:19 9:12,13	70:21 71:6 72:9	closely 96:18	40:14 55:11
65:15	16:23 18:4 38:8	74:16 75:16,18	107:1 109:21	67:6 87:10
<b>cities</b> 10:13,16	46:1 50:6 52:10	75:20,24 81:14	114:18 128:18	95:12 99:21
16:18 18:1,5,7	53:8 63:6,17	82:22 84:13,22	closer 25:12 26:19	113:11 116:22
18:19 19:18	64:4,12 65:1,8	87:12,16 90:12	85:4	116:22 124:3
20:11 22:1 53:6	65:19,25 67:9	90:14,17,20,22	closing 126:25	125:9,11,15
56:3,16 57:8,25	70:4,10,11,15,17	90:22,24 91:1,4	<b>cluster</b> 15:2 17:19	132:4
63:15 64:15	70:22,25 71:16	91:7,20,23,23	63:25 90:22	comes 9:25 10:12
91:14 96:5,11	71:20,23 79:1,2	92:3,13 94:16	93:18,19 96:7	18:5,13 27:3
104:5 108:23	90:18 91:3,6,18	96:4,5,12 97:15	98:12	50:21 57:7
109:5 118:7	96:2,8,9,13	98:3,10,11,21	clusters 82:21	63:21 74:15
122:21 129:20	97:18,24 108:9	99:1,16 101:15	coaching 98:5	76:6 78:10 87:2
<b>citizen</b> 105:14	108:15,22 111:2	102:7 103:11	<b>coal</b> 67:9	104:9,14 122:23
citizens 66:13	112:1,12 125:13	104:10,15	<b>code</b> 121:15 122:9	134:6
67:25 74:7	125:19	107:25 108:9,11	codes 104:6,12,17	<b>coming</b> 2:16 23:2
<b>citrus</b> 120:14	cleaned 38:16	109:7,22 110:4	106:4 107:9	28:2 36:2 44:2
city 6:9 14:15	cleaner 65:11	110:24 111:1,5,9	codify 66:7	49:19 51:5
15:1,25 16:19,21	85:10 86:1	111:10,12,14,16	119:22	56:11 57:1 59:6
16:24 19:3,18,24	cleaning 40:5	111:17,19 112:7	collaborates 76:7	60:7 86:20
20:1,4,8,18 24:1	126:18 127:2	112:7,10,11,19	collaboration	92:23 100:19
27:21 42:5 44:2	cleantech 1:5 2:9	112:24 113:18	14:19 35:1	128:15 133:24
44:7 49:10 52:6	2:18,22 4:24	113:19 115:6,7	90:16 98:6	134:20
52:16 53:6	5:22 8:22,22,25	115:13,17	<b>collar</b> 64:9 80:16	<b>comment</b> 61:14
57:22 66:18	9:2,4,5,12,15,23	117:13,17,23	121:16	66:4 71:19
72:21 74:6,21	9:24 10:23 11:1	118:23 119:3	collate 3:24	74:13 75:22
75:11 80:12	11:6,7,10,13,13	122:24 123:2,3,4	collect 3:23	80:2,4 83:17
90:13 91:15,15	12:14,15 13:16	123:10 127:5	collecting 62:24	84:25 87:6
91:20 94:1,4	14:14,16,21,23	134:2	<b>college</b> 4:3 9:16	104:19 113:10
104:8 105:1,3,6	15:2,11,17 16:1	<b>clear</b> 24:24 61:23	9:16 81:2,7,10	114:8 115:20
105:7,7 106:23	16:4,11,13,20	79:16,20 91:1	81:22 82:10	comments 3:19
110:25 112:7,10	17:1,4,6,11,15	114:3	84:16 108:19	54:12 66:7
112:11,20,21	21:14 22:5,7,23	clearly 61:22	colleges 89:24	71:22,25 76:1
113:1,19 115:6	23:8 27:18,19	68:12 106:2,2	<b>color</b> 37:21	114:22 121:8
		_		

[				
commerce 68:1	companies 10:2	73:11 96:5	concerns 62:23	118:19
91:16	10:18 13:7 15:7	121:22	77:20	consultant 12:22
commercial 17:25	16:4,5,20 17:22	competition 74:24	concerted 91:10	95:5 105:25
20:24 25:5 28:6	20:5,6,6,14	97:18	concise 61:24	consultants 14:25
40:8 50:15,15	21:15,17,21,23	competitive 28:9	concluded 134:21	consultation
117:25 118:17	22:23 23:22	28:23 57:24	concrete 35:17	13:15
126:9 128:20	26:3 29:16,17,18	Competitiveness	concur 100:11	consulting 15:7
commercializati	30:8,9,11,12,16	4:20 12:17,25	110:19	46:1 59:9 67:15
26:25 36:19	30:25 31:2 32:2	compiled 62:25	concurrence	consumer 68:17
73:5,6 74:19	34:19 35:13	compiling 131:11	110:22	consumers 49:21
commercialized	36:20,23 42:1,14	<b>complete</b> 54:13,13	condition 73:12	64:25 118:21
27:4 96:9	42:15 50:18	62:21 93:3	conditioning	consumes 68:20
commission 25:2	58:1 60:3 70:20	131:9 135:5	37:16	consumption
52:9,13,15,16	71:13 73:9	completed 16:15	conditions 106:13	25:22 71:9
64:23 65:13	75:14 76:20	completely 26:15	conference 53:18	74:11
72:21 105:1	78:13 84:12	46:21 94:21	conferences 11:25	contact 16:3
106:23	85:24 87:24	complexity 43:19	132:8	<b>contain</b> 118:6
commissioners	88:2 91:4,11,19	component 56:4	confusing 118:12	content 3:23
105:6	94:10,10 96:15	82:8 98:19	Congress 49:2	contents 40:25
commitment	97:20 98:1 99:9	components 31:7	Connect 30:6	context 63:5 64:3
11:15 112:12	99:18 102:20	31:12 99:23	45:19	continue 6:22
committed 49:18	103:11 104:10	composed 14:23	Connecticut	7:15 20:23 32:3
<b>common</b> 37:6	104:15 111:17	98:17	70:10	125:5
78:24 99:10	112:2 115:7,10	comprehensive	consequences	continued 13:8
<b>commons</b> 67:22	115:14 116:15	95:14 103:15	67:6	99:25
communicate	129:18 133:8	104:11,17	conservation 50:9	continuing 20:12
59:16	company 23:23	120:19,22	107:1	continuity 8:24
communicated	23:25,25 27:13	compressors	consider 54:20	contract 44:9
120:21	28:18 30:1,16,18	85:20,21	55:3	contractor 85:17
communication	31:10 37:19	computer 111:24	consideration	contribute 63:24
59:11	38:8,13 39:19	concentrate 75:8	60:8 63:14	131:20
communications	44:24 46:1	Concentration		contributor 127:5
102:23	59:15 60:23	112:3	67:19	<b>control 57:19</b>
communities 7:1	61:18 85:19	concept 24:4	constant 37:14	79:19
10:16 13:3	92:17 94:18	27:15,22 32:21	constantly 31:2 constrained 95:18	<b>controlled</b> 96:17
<b>community</b> 6:4,23 7:1 9:4 10:24	99:5 100:20 125:7	37:2 38:5 50:24 74:25 76:17,19	95:18	105:2 <b>controls</b> 126:7
12:20 50:1,1	comparable 82:7	79:7 84:10	<b>construct</b> 111:6	129:19
60:3 65:9 75:18	comparable 82:7	101:20 102:16	constructed	<b>convenient</b> 120:6
76:9 81:2,7	compared 57:25	120:2	110:15	convergence 99:2
82:10 84:16	75:17	concepts 120:20	construction 25:7	convergent 55:5
99:13 104:10,16	compelling 61:24	concern 72:4	27:18 74:25	conversant 28:10
104:23 105:1,15	compete 16:17	concerned 116:12	81:6,18,23	29:2
104.23 103.1,15	23:8,9 105:16	concerning	106:12 107:12	conversation 6:14
120:17	competing 54:3	105:12	111:10 118:17	conversion 32:17
	•			

	· · · · · · · · · · · · · · · · · · ·			
<b>convert</b> 32:20,20	107:17 127:18	107:7 130:11	criteria 46:8 47:7	85:1 95:5
converted 32:15	countrywide	CO2scorecard	73:14 100:18	105:24 119:11
converting 33:2	122:17	130:23	crossover 23:21	121:11
cool 3:5 37:12	<b>county</b> 1:4 4:13	create 18:7,19	Crotty 5:19 6:10	<b>David</b> 77:5
115:21	5:11,16 6:14 7:8	21:7 22:9 24:23	6:21 7:19 8:5	day 9:20,21 12:2
cooling 21:5 37:7	7:16,20 8:4,12	25:14 29:15,16	11:3 13:4 134:4	127:25 132:11
coordinated 93:4	8:15,18 10:24,25	33:21 34:10,16	Crotty's 5:15 13:1	133:18 135:7
93:12	11:20 13:7	37:13 39:24	crucial 6:18	days 103:16 118:1
coordinating	15:22 19:23	43:7 53:21	<b>culled</b> 134:18	de 77:3
14:19 108:24	52:14,15 53:2,5	57:10 82:23	<b>culture</b> 78:25 85:9	deal 86:7,23,23
109:6	66:18 68:22	88:20,24 91:2,23	<b>curb</b> 19:14	dealership 126:24
core 110:1	80:10,12 85:15	91:24 92:4	current 44:3 67:9	dealing 66:10
<b>corner</b> 8:17	85:24,25 91:5	93:13,13 94:6	71:17 91:4	72:4
125:17	92:24 100:1	106:9 109:24	124:19	<b>dear</b> 113:15
cornerstone	103:22 104:24	112:21,24 117:7	currently 5:15	<b>debate</b> 67:16
108:10	114:16 120:22	124:22,23	93:20,22 102:13	95:24 100:6
corporate 15:5	122:14,15	126:21 130:14	108:7,14 123:4,5	120:17
32:1 33:19	123:20 124:13	130:14,18	127:2	<b>decay</b> 86:2
42:20,22 45:7	127:6 129:22	created 26:10	curriculum 36:9	December 16:15
72:5 116:21	132:18 135:2	27:8,22 30:11	83:15	18:3 19:21
<b>correct</b> 44:3 113:4	County's 5:19	33:3 39:3 70:11	customer 71:3,4	<b>decide</b> 18:23
corridor 76:3	114:4	89:5,9 96:14	91:12	decided 27:16
93:11 101:22	<b>couple</b> 2:13 6:24	108:12	customers 72:22	30:19
111:14	13:21,23 44:15	creates 53:12 56:7	<b>cut</b> 77:14	decisions 46:8
cost 9:8 51:21	66:6 69:24 88:8	126:18	<b>cuts</b> 48:5 78:2	68:13 122:6
55:12 73:25	89:14 107:7	creating 9:8 10:1	cutting 10:22	decrease 12:7
74:2 76:18	113:14 127:7	34:20 63:25	77:13 129:8	dedicate 72:7
84:18 94:13,23	129:19 132:12	64:8 84:10	<b>cycle</b> 44:20 46:2	dedicated 70:7,24
99:11 118:2	coupled 22:19	92:13,20 97:24	46:25 73:25	71:5 99:8 108:9
119:16 122:5	course 1:6 2:9 4:1	104:9,15 110:24	87:17	deeper 128:9,10
costly 21:8	5:18 36:13	112:6,11	Cynthia 40:4	defeat 95:11
costs 21:8 81:17	60:13 71:20	creation 42:16	125:12,18 127:7	defer 78:14
<b>council</b> 13:7 14:23	77:18 80:1 83:4	63:9 65:10	<b>D</b>	<b>define</b> 46:7 68:12
76:3 90:19,24	88:13 89:5 92:6	67:18 70:3	<b>D</b> 2:1	72:13
91:9,22 92:11	92:8 116:4	74:16 82:6,20	<b>D</b> 2:1 <b>Dallas</b> 114:24	defined 24:19
101:22	125:1 128:7,10	96:2 107:24	danger 79:14	<b>defines</b> 67:20
count 65:21 66:2	133:15	112:23 116:25	danger 79.14 darn 129:8	119:18
118:22	<b>courses</b> 36:3 81:4	creative 95:13	data 82:16	<b>definitely</b> 40:11
<b>counted</b> 40:15	81:5 87:20	102:11	date 1:11 14:9	41:6 42:22 44:21 75:21
countertops 129:3	<b>court</b> 11:16	<b>creativity</b> 6:5 112:4	Dated 135:7	44:21 /5:21 93:12 115:22
counties 93:8 countries 34:12	cover 5:10,11	credit 18:17 66:13	dates 133:25	116:11
47:23 63:15	13:17 <b>cow</b> 120:14	121:3	daunting 25:7,21	definition 8:21
	]	<b>Creole</b> 100:21	Dave 45:25 67:15	9:1,24 59:24
<b>country</b> 4:24 60:11 81:1	<b>co-located</b> 97:5 <b>CO2</b> 25:22 58:11	<b>crew</b> 129:7	72:20 78:17	67:17 72:8
00.11 0111	002 23.22 30.11	LIUW 127.1		07.1772.0
	l	l	l	I

		1	1	1
100:9 101:5	desire 59:18	102:2 103:20	99:2,17,18	distributor
<b>degree</b> 15:8,10	<b>despite</b> 63:6 69:25	105:5,10 106:4	101:11 103:6,11	126:24
degrees 35:24	destination 16:10	108:11 111:4,13	108:1,13 112:14	district 18:9
111:25	<b>Destiny</b> 112:20	112:8,13 113:20	117:8 122:15,16	districts 18:8
<b>demand</b> 25:14	113:2,3 114:8,10	114:13 115:16	123:19 127:3	dive 39:9
65:7 84:20 88:3	120:1	116:3 123:22	129:23 131:19	diverse 9:5
107:2	detail 28:6	128:3	133:5	diversify 36:4
demanding	details 60:5 61:1	devices 76:17,19	differentiation	diversity 47:5
121:17	determined 14:9	110:7	123:21	divided 16:2
demographics	59:4 70:8	Didgemore	difficult 9:10 30:2	doctorates 111:23
123:22	determining	133:16	31:1 79:7 85:23	document 11:6
demonstrated	10:13 65:20	<b>Diego</b> 2:16 4:17	difficulty 54:2	documentation
106:7	66:1	6:9 9:3 11:8,9	diffused 66:21	128:19 129:5,9
demonstration	develop 12:19	13:16 14:15,22	dig 88:7	dogs 102:12
79:8 104:2	14:20 17:21	14:22 15:2,9	digging 101:5	doing 4:10,11,21
<b>dent</b> 107:18	19:9 54:24	16:1,10 17:3,6	dinner 3:1 43:23	10:19,20 11:9,23
department 9:18	82:21 83:15	17:12 18:4	dioxide 41:3	12:20 13:3,18
24:16 71:6	85:9 86:17	19:24 21:2,14	125:24 126:4	16:19,24 19:22
113:18	89:22 91:1	22:24 23:7,10	direct 43:5 47:9	20:12,23 34:19
departments 9:19	95:23 101:23	29:18 30:8,13,19	67:2 69:6,20	39:23 41:10,10
108:1	108:5 128:18	31:4,9,13,14	119:25	45:5 50:13 54:1
depend 79:6	134:15	34:10,16 36:6,15	direction 47:2,10	57:3 58:4 76:15
depending 35:9	developed 23:5	36:21 41:24	68:16 90:6	88:13 93:5,19
depends 32:12	24:2 39:20	42:10 45:20	134:14	94:10,21 100:14
depth 13:13	76:14	50:3,17,19 52:8	directive 43:11	115:17,18
describe 55:7	developer 24:3	52:12,13,14,15	directly 20:4	121:22 128:5
described 100:13	105:2 120:24	52:16,18,20 53:2	32:20	130:19,20 133:3
describes 29:5	developers 24:24	53:5,25 54:18	director 2:6 91:17	133:5,9,9
104:2	117:25	57:21 59:6 60:7	96:20 109:15	dollar 77:21 122:5
describing 13:21	developing 11:1	74:16,17,21,22	directors 71:1	dollars 21:8 29:25
<b>Desert</b> 18:6 19:19	14:8 16:8 22:6	74:22 75:12	disagree 46:22	70:16,20 71:10
deserves 132:22	25:15 74:4	77:5 83:6 90:13	disaster 106:8	86:15 88:23
134:16	83:19	90:18 92:21	disconcerting	101:6 116:3,11
design 28:15	development 4:2	97:23	3:15	116:23
36:17 57:7	5:20,22 8:11,14	<b>diesel</b> 20:16 46:11	<b>discuss</b> 36:23 37:4	<b>Dolphin</b> 127:11
103:18 108:17	8:22 9:25 11:4	46:13,16,17 86:6	37:11 61:12	domain 3:12
118:2	13:9 14:23 15:5	86:25	64:3	doors 19:13 89:25
designating 90:12	17:12 43:11	difference 10:22	discussing 36:9	double 101:5
designed 21:13	44:20 52:9,13,14	90:8 129:17	87:11	Downing 87:8,8
27:1 37:15	52:16 53:8	differences 52:7	discussion 13:11	downtown 23:1
38:12,19 57:13	63:16 72:12	different 4:7 9:19	13:13 31:12	94:11,12 111:11
designer 37:2	73:4 81:13,21	11:12 20:13	43:14 84:17	114:25 133:15
designers 39:6	89:13 90:18,21	48:23 60:10	132:15 134:9	dozen 37:14
0	91:17 96:25		discussions 86:18	
designing 123:3		89:16 90:2,3		<b>dozens</b> 60:9,10,10
<b>designs</b> 106:13	97:1 100:12	93:8,11 98:17	disruption 85:11	134:18,18,19

29:22 132:4 st 1:23 sy 9:14 54:7 8:4 120:23 26:23 129:21 40:5 114:17 25:12,19 pnomic 2:19 :20 5:20,22 7:4 :11,14,22 9:25 1:4 13:9 17:12 3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18 06:23 108:6	119:16 effectively 59:14 73:5 efficiency 9:9 19:6 19:6,10,15 21:18 35:8 50:9 70:7 71:12 75:6 80:18 81:15 97:15 107:1,19 118:10 130:15 130:19 efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	eliminate 67:23 80:11 127:1 eliminates 126:7 embark 63:22 embedding 76:18 embellish 130:1 embellishment 69:17 embrace 24:25 36:11 53:25 63:18 embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	46:4,5 48:23           49:11 50:9,25           56:3,4,4,8 64:7           64:10,18,22 65:8           65:10,18,21,25           66:2,16 67:8           68:7,21 70:4,7,8           70:10,11,15,18           70:19,22,23,25           71:16,20,23           72:16 74:11           75:8 76:10           80:18,19,22,23           81:3,5,14,15,17           81:24 82:12,12           82:20 91:18
st 1:23 y 9:14 54:7 8:4 120:23 26:23 129:21 40:5 114:17 25:12,19 momic 2:19 :20 5:20,22 7:4 :11,14,22 9:25 1:4 13:9 17:12 3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	effectively 59:14 73:5 efficiency 9:9 19:6 19:6,10,15 21:18 35:8 50:9 70:7 71:12 75:6 80:18 81:15 97:15 107:1,19 118:10 130:15 130:19 efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	80:11 127:1 eliminates 126:7 embark 63:22 embedding 76:18 embellish 130:1 embellishment 69:17 embrace 24:25 36:11 53:25 63:18 embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	49:11 50:9,25           56:3,4,4,8 64:7           64:10,18,22 65:8           65:10,18,21,25           66:2,16 67:8           68:7,21 70:4,7,8           70:10,11,15,18           70:19,22,23,25           71:16,7,9,11,12           71:16,20,23           72:16 74:11           75:8 76:10           80:18,19,22,23           81:3,5,14,15,17           81:24 82:12,12
y 9:14 54:7 8:4 120:23 26:23 129:21 40:5 114:17 25:12,19 momic 2:19 :20 5:20,22 7:4 :11,14,22 9:25 1:4 13:9 17:12 3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	73:5 efficiency 9:9 19:6 19:6,10,15 21:18 35:8 50:9 70:7 71:12 75:6 80:18 81:15 97:15 107:1,19 118:10 130:15 130:19 efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	eliminates 126:7 embark 63:22 embedding 76:18 embellish 130:1 embellishment 69:17 embrace 24:25 36:11 53:25 63:18 embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	56:3,4,4,8 64:7 64:10,18,22 65:8 65:10,18,21,25 66:2,16 67:8 68:7,21 70:4,7,8 70:10,11,15,18 70:19,22,23,25 71:1,6,7,9,11,12 71:16,20,23 72:16 74:11 75:8 76:10 80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
8:4 120:23 26:23 129:21 40:5 114:17 25:12,19 <b>nomic</b> 2:19 :20 5:20,22 7:4 :11,14,22 9:25 1:4 13:9 17:12 3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	efficiency 9:9 19:6 19:6,10,15 21:18 35:8 50:9 70:7 71:12 75:6 80:18 81:15 97:15 107:1,19 118:10 130:15 130:19 efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	embark 63:22 embedding 76:18 embellish 130:1 embellishment 69:17 embrace 24:25 36:11 53:25 63:18 embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	64:10,18,22 65:8 65:10,18,21,25 66:2,16 67:8 68:7,21 70:4,7,8 70:10,11,15,18 70:19,22,23,25 71:1,6,7,9,11,12 71:16,20,23 72:16 74:11 75:8 76:10 80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
26:23 129:21 40:5 114:17 25:12,19 <b>momic</b> 2:19 :20 5:20,22 7:4 :11,14,22 9:25 1:4 13:9 17:12 3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	19:6,10,15 21:18 35:8 50:9 70:7 71:12 75:6 80:18 81:15 97:15 107:1,19 118:10 130:15 130:19 efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	embedding 76:18 embellish 130:1 embellishment 69:17 embrace 24:25 36:11 53:25 63:18 embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	65:10,18,21,25 66:2,16 67:8 68:7,21 70:4,7,8 70:10,11,15,18 70:19,22,23,25 71:1,6,7,9,11,12 71:16,20,23 72:16 74:11 75:8 76:10 80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
40:5 114:17 25:12,19 <b>momic</b> 2:19 :20 5:20,22 7:4 :11,14,22 9:25 1:4 13:9 17:12 3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	35:8 50:9 70:7 71:12 75:6 80:18 81:15 97:15 107:1,19 118:10 130:15 130:19 efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	embellish 130:1 embellishment 69:17 embrace 24:25 36:11 53:25 63:18 embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	66:2,16 67:8 68:7,21 70:4,7,8 70:10,11,15,18 70:19,22,23,25 71:1,6,7,9,11,12 71:16,20,23 72:16 74:11 75:8 76:10 80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
25:12,19 <b>nomic</b> 2:19 :20 5:20,22 7:4 :11,14,22 9:25 1:4 13:9 17:12 3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	71:12 75:6 80:18 81:15 97:15 107:1,19 118:10 130:15 130:19 efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	embellishment 69:17 embrace 24:25 36:11 53:25 63:18 embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	68:7,21 70:4,7,8 70:10,11,15,18 70:19,22,23,25 71:1,6,7,9,11,12 71:16,20,23 72:16 74:11 75:8 76:10 80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
nomic 2:19 :20 5:20,22 7:4 :11,14,22 9:25 1:4 13:9 17:12 3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	80:18 81:15 97:15 107:1,19 118:10 130:15 130:19 efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	69:17 embrace 24:25 36:11 53:25 63:18 embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	70:10,11,15,18 70:19,22,23,25 71:1,6,7,9,11,12 71:16,20,23 72:16 74:11 75:8 76:10 80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
:20 5:20,22 7:4 :11,14,22 9:25 1:4 13:9 17:12 3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	97:15 107:1,19 118:10 130:15 130:19 efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	embrace 24:25 36:11 53:25 63:18 embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	70:19,22,23,25 71:1,6,7,9,11,12 71:16,20,23 72:16 74:11 75:8 76:10 80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
:11,14,22 9:25 1:4 13:9 17:12 3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	118:10 130:15 130:19 efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	36:11 53:25 63:18 embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	71:1,6,7,9,11,12 71:16,20,23 72:16 74:11 75:8 76:10 80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
1:4 13:9 17:12 3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	130:19 efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	63:18 embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	71:16,20,23 72:16 74:11 75:8 76:10 80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
3:5,10 47:1,12 2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	efficient 20:21 25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	embracing 63:16 emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	72:16 74:11 75:8 76:10 80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
2:8,13,14,15 6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	25:8 33:7 35:5 38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	emerge 103:5 emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	75:8 76:10 80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
6:5 63:6 68:22 1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	38:20 68:11,11 78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	emerging 81:22 emissions 20:17 46:14,24 47:22 73:15 126:15	80:18,19,22,23 81:3,5,14,15,17 81:24 82:12,12
1:17,24 72:12 7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	78:23 80:23 86:1 106:9 efficiently 59:16 effort 25:8 60:12	emissions 20:17 46:14,24 47:22 73:15 126:15	81:3,5,14,15,17 81:24 82:12,12
7:10 81:12,20 2:5 91:17 2:24 100:12 02:2 106:7,18	86:1 106:9 efficiently 59:16 effort 25:8 60:12	46:14,24 47:22 73:15 126:15	81:24 82:12,12
2:5 91:17 2:24 100:12 02:2 106:7,18	efficiently 59:16 effort 25:8 60:12	73:15 126:15	-
2:24 100:12 02:2 106:7,18	effort 25:8 60:12		02.20 91 10
02:2 106:7,18		130:20	95:15 96:3,8,9
,	74.21.01.10		
UD'73 HUA'D	74:21 91:10	emphasis 101:15	96:13,17,19 97:1
	93:4,12 101:14	emphasize 12:13	97:2,4,4,15,18
13:19 116:3	102:6 114:2	101:12,15 102:1	97:24 103:18
21:5 124:19	efforts 4:17 6:22	employers 82:11	106:6,7,14,25
nomics 9:17	11:10 13:9	employment	107:3,14,19
:21 108:2	22:13 52:10	81:24	108:4,16,22
nomist 9:20	100:20 108:25	empty 120:7	109:20,22
<b>nomy</b> 49:6	109:7 111:12	enact 117:19	110:14 111:18
8:4 95:18	either 28:2 30:6	enacted 25:20	112:1 118:10,20
19:17	32:20 49:14	encompasses 9:5	118:21 119:20
C 2:25 3:2	57:1 125:5	114:15	121:18 124:11
4:9 53:1,2	elected 5:18 105:1	encompassing	124:16 129:11
4:22 93:6	120:21	14:17	130:15,19
33:17	election 105:6	encourage 75:24	engage 42:13,14
			42:22
			engaging 42:15
,		encouraging	engine 46:13,13
			engineer 35:25
28:5	64:7 71:3,4	endless 126:19	46:1 67:15
icating 71:11	122:1	<b>endorse</b> 103:3	127:14
ication 35:20	electricity 33:2	<b>ends</b> 125:1	engineering 28:7
6:6,12 82:17	35:12 49:22	energies 97:14	35:25 46:2 75:5
4:6 86:22	64:18 68:19	energy 19:6,6,10	96:24 108:2
21:17	75:6	19:12,15 20:6,21	111:23,24
icators 14.24	electronics 99:6	21:17 22:11	engineers 37:3
	electrons 32:16	24:20,20,21 25:2	engines 48:23
ect 49:17 72:22	elements 56:19	25:8 32:17,21	87:1
	<b>ge</b> 10:22 38:22 7:1 129:9 33:16,16 <b>icate</b> 86:9 87:1 28:5 <b>icating</b> 71:11 <b>ication</b> 35:20 6:6,12 82:17 4:6 86:22 21:17 <b>icators</b> 14:24	ge 10:22 38:22elective 36:37:1 129:9electric 64:2133:16,1666:13 86:17,23acate 86:9 87:1electrical 48:2328:564:7 71:3,4122:1122:1acating 71:11122:1acation 35:20electricity 33:26:6,12 82:1735:12 49:224:6 86:2264:18 68:1921:1775:6electronics 99:6electrons 32:16	ge 10:22 38:22elective 36:389:4 131:187:1 129:9electric 64:21133:433:16,1666:13 86:17,23encouragingreate 86:9 87:1electrical 48:2375:2028:564:7 71:3,4endless 126:19reation 35:20electricity 33:2ends 125:166:6,12 82:1735:12 49:22energi 97:144:6 86:2264:18 68:1919:12,15 20:6,2121:1775:619:12,15 20:6,21et 49:17 72:22electronics 99:621:17 22:11

enhancing 124:18	10:6 29:18	<b>evolve</b> 83:1,10	21:9 29:19	fair 22:7 72:7
enjoy 7:10	37:15 42:24	evolved 84:11	33:10,10 115:21	fairly 26:4
enterprise 22:21	46:16 50:15,16	evolving 63:11	experience 28:18	fall 21:15
80:9 93:10	58:1 77:19	exactly 24:12,19	129:15,16	falls 124:8
Entertainment	93:18 115:14	41:14 61:12	expertise 98:1	familiar 33:25
84:7	130:17 132:12	115:12	experts 14:16	fancy 94:24
entire 51:1 85:20	essence 13:21	exalt 7:15	87:9	fantastic 3:11
entities 60:2 83:14	essential 120:16	examiner's	explain 17:5	far 22:4 26:19
93:11 109:25	establish 59:17	103:22	exported 50:3	66:12 116:11
122:17 123:14	71:13,16,23	example 12:23	exposure 36:1	121:24 123:12
123:17 128:21	75:15 90:23	46:11 55:15	extending 111:15	130:21
entity 69:4 95:3	91:3	57:4 75:5 78:22	118:12	farming 108:17
123:1 129:15	established 16:4	85:5 91:11	extensive 126:4	fast 122:19
entrepreneur	21:21 91:21	121:12 133:6	externally 59:17	fastest 63:8 81:15
28:16,17 113:13	100:20 116:18	examples 37:6	extract 33:7	124:9
120:25	estimate 65:16	54:25 103:21	extraction 33:8	Faulhaber 96:20
entrepreneurial	estimated 70:16	exciting 133:2	extremely 85:11	February 1:11
28:11	71:9	exclude 110:9	eye 126:3	federal 14:20
entrepreneurs	<b>et</b> 67:10	execute 14:21	eyes 98:14	18:14 47:25
10:17 50:4,4	ethanol 118:6	executive 1:13 4:2	e-mail 6:11 132:6	63:12 73:3
73:7 100:19	<b>Europe</b> 59:12	25:24	132:16,16	78:11 97:9 98:5
128:15	Euros 30:18	exist 54:23 93:22	e-mailed 11:22	106:16
entrepreneurship	<b>Eustis</b> 104:24	93:22 122:15		federally 124:21
10:15	127:24	123:8,17,23	F	feed 49:11 50:24
environment 7:2	evaluation 28:20	existence 82:19	facilitate 59:19	118:20 128:13
11:2 66:10	36:15	108:7 117:11	131:2	feedback 5:4,9
71:17 79:8 86:8	evens 47:20	existing 40:6 65:5	<b>facilities</b> 4:4 20:18	13:25 49:10
environmental	event 1:6 3:18	77:12 82:17,23	98:18 99:7,9	103:12 134:12
9:7 24:16 30:22	4:18 11:24 32:6	84:12 93:10	115:14 127:8	feel 66:22 71:22
103:18 105:24	36:7	103:24 104:3	facility 23:1 24:6	85:1 92:12
108:16 112:1	events 3:7,24 4:9	107:13,20 120:9	99:15,17 101:13	128:21
120:19	4:10 12:2 132:8	123:6	facing 54:11	feet 20:19 39:16
environmentally	132:21	exists 101:1,6	57:21	50:21 115:2
74:19 103:20	eventually 51:22	126:5	fact 6:11 87:25	felt 68:4 83:24
environments	everybody 2:3	expand 31:19	98:22 100:25	134:12
2:19	3:11 47:21 48:8	83:8 84:11	114:2 120:3	Fenton 70:6
enzymes 23:15	51:24 113:20,24	125:5	factor 65:20 66:2	107:14
epicenter 104:23	125:16 133:1	expanding 31:25	123:21	Fenton's 109:20
equal 9:13	everyday 41:4	70:24 118:12	factories 71:13	<b>fiber</b> 32:18
equipment 20:10	79:3 126:1	expansion 99:23	factors 63:23	field 47:21 87:13
86:6 99:8,9,11	everytime 39:1,1	expecting 48:25	faculties 36:8	98:7 119:20,20
equity 18:16	39:8 68:18	expedite 24:3,6,10	<b>faculty</b> 31:17,20	119:20 121:21
Ernst 9:1	evident 84:6	24:14	76:7,14 107:25	128:12
<b>ESD 24</b> :16	evolution 56:15	expedited 118:1	109:21	fields 49:14
especially 3:17	evolutions 34:5	expensive 18:11	failure 86:9	<b>fifth</b> 7:12,12
cspecially 5.17	C. OIGHIOINS 5 110			· · · ·
				, , , , , , , , , , , , , , , , , , ,

			 I	
90:11 97:22	firsthand 128:14	focused 22:11	forms 5:8 45:11	friends 5:25
<b>figure</b> 23:6 27:7	fiscal 44:14	27:17 46:2	formula 9:11,14	front 8:14 20:7
39:5 41:14	fit 5:2	53:10 99:15	9:24 51:16	29:6 79:20
54:14 87:23	<b>fits</b> 123:5	focusing 2:8 22:13	formulate 108:22	128:12
88:2,12	five 5:3 10:12	29:1	<b>forth</b> 110:7 132:9	<b>frontier</b> 17:4,16
filings 129:6	19:2 32:11 43:6	folks 2:12 3:2,25	fortunate 12:17	<b>FSEC</b> 101:1
<b>final</b> 14:11	62:7 102:19	4:19 5:12 36:22	31:23	<b>fuel</b> 20:16 46:12
finalize 49:1	128:3	68:6 78:8 87:1	Fortune 15:7	46:16,17,19
finalized 41:13	five-acre 105:4	88:23 100:14	36:20	49:23,24 81:9
finance 87:12,24	fix 48:12 121:6	113:20 114:9	<b>forum</b> 3:18 4:1,19	86:1
129:1,1	<b>floor</b> 5:3,14	follow 37:16	7:13 62:14	fuelers 85:18
financed 20:3	<b>Florida</b> 1:13,24	72:18 119:25	125:4	<b>fuels</b> 78:25 85:7,7
128:17	2:7 8:15 41:21	following 19:18	forums 7:8	85:10 94:11
financial 55:22	41:25 51:4	65:18 82:13	forward 15:19	118:5,8
69:23 71:12	64:22 65:12,19	90:23 96:11	16:9 25:1 48:18	<b>full</b> 11.1,18,19
93:8 117:21	66:1,19 67:16,25	108:15	52:6 54:8 55:4	12:5,5 23:23
financially 105:16	68:3 70:4,23,25	<b>fool</b> 95:10	57:3 107:11,21	28:13 91:16
financiers 48:1	71:7,14,16,23	foot 22:25	133:21,22 134:7	132:6,13,14
financing 121:1	73:6,21 76:3,15	footprint 68:17	134:15	<b>fully</b> 39:21 40:16
129:10	79:1 81:3 83:12	73:17,19	for-profit 89:24	54:22 86:9
<b>find</b> 6:3,15 8:7	85:8,20 86:21	force 40:24 73:23	<b>foster</b> 93:17 108:5	function 5:20
21:14 22:17	87:9 88:9,13	74:1 81:13 84:9	fostering 14:18	<b>fund</b> 13:8 42:9
42:22 45:13	93:10 95:12	84:14 87:15	41:15	70:4,10,11,22
46:3 54:7 80:3,5	99:14 101:22	88:4,22 89:13	<b>found</b> 11:5,7 22:4	71:8,9,11,16,20
85:23 102:5	105:25 106:6	111:4 123:22	45:23 59:25	71:23 72:7 73:1
123:17 131:18	107:14,16 108:4	forces 66:1 67:17	68:2 82:10	73:23 78:15
finding 129:24	109:19,22	69:1	85:17 102:18	82:18 87:16
findings 70:21	112:20 113:3	forefront 57:5,11	foundation 42:5,8	fundamental
<b>finish</b> 62:4,6,13	114:14,18 121:6	97:12	43:8 76:16,20	47:14 85:21
fire 103:23	124:15 127:16	foregoing 135:5,5	founded 97:19	fundamentals
firm 15:7 59:9	127:17 129:10	foreign 30:16	<b>four</b> 35:24 108:18	116:14
<b>firms</b> 96:9	130:12 135:2	forestry 9:18	111:15 122:2	<b>funded</b> 30:9 33:11
first 2:3,13 9:11	Florida's 5:18	forget 12:1	127:12	49:21 54:8 76:5
9:16 11:6 17:17	64:6,21 71:8	form 13:24,25	<b>fourth</b> 7:13 80:16	97:7
19:5 21:12 33:1	Floridians 71:11	35:14,16 58:24	framework 25:18	<b>funding</b> 23:2 28:4
36:5 44:16	<b>flow</b> 37:12,14,18	58:24 68:20	Francisco 22:2,3	28:8 30:8 33:1
49:15 54:13	69:21	formalizing 17:9	22:11 91:24	33:18,18 42:2,5
59:23 60:18	flower 38:6,6,8	formally 104:11	97:22	44:2,10,11,12
63:3 64:6 65:24	flowing 124:21	104:16	Francisco's 91:21	45:5,9,13 50:10
69:16 75:4 76:2	flurry 66:22	format 4:7 61:20	free 13:6 67:19	53:20 54:3
82:15 88:8,11	<b>focus</b> 19:4 47:11	94:4	118:2	72:11 73:4,8
104:21 107:9	54:10 59:10	formation 63:13	free-standing	77:18.23 78:10
112:21 114:7	78:8,11 81:13	formed 27:12	111:6	78:12 80:3,6
118:5 127:21,24	88:10,15 110:14	45:20	friendly 74:19	91:16 96:22
130:5	113:15	forming 90:16	94:21	101:20 102:17
	l		l	

				<u> </u>
110:1 116:14	gee 12:8 78:8	117:4 130:2	47:17 48:11	124:20 128:6
119:25	116:10	134:5	57:10 64:9	129:8 130:5
<b>funds</b> 23:2 29:10	general 16:5	given 24:6 25:8	79:12 92:14	131:5 132:17
29:10 70:4,7,17	21:22 43:3 44:8	26:5 45:3	119:17,22 120:1	133:19,20,20
70:19 74:5,6	46:7 99:14	gives 18:12 21:24	godfather 67:19	134:13
75:13 76:5,21	110:11 130:1	giving 3:2	goes 35:18 46:9	golden 19:5
79:10 101:22	generally 105:11	glad 2:9 59:4	116:10	good 2:12 5:6
124:20	generate 26:17	90:15 100:4	going 2:2,10,17,19	6:16 12:1 20:9
further 14:8 19:7	35:6 112:4	glass 59:10	3:23,25 4:7,15	45:4 47:19
55:14 88:18	generated 26:19	global 25:19 53:4	4:23 5:2,25	56:10,21 57:4
114:12 134:15	26:19,21 64:18	58:8,9 64:8	10:10,14,20,23	59:3 65:9 66:22
<b>future</b> 26:12	70:14 126:14	81:16	16:12 17:18	66:23 72:12
30:15 34:24	generating 64:10	globally 95:17	19:4,10,17 20:23	74:3,8 77:19
66:14 101:6	64:21 75:7	gloomy 63:6	23:8,9,20 24:19	78:6,16 80:14
00.14 101.0		go 2:2 4:6 10:4	24:21,23 25:7	81:17 82:16
G	generation 18:4 22:11 39:25	<b>go</b> 2.2 4.6 10.4 11:24 12:4,6,9	27:6 28:12 29:3	86:25 89:11
G 2:1	50:7 56:3	12:22 14:7 24:4	29:4 30:1 32:24	90:7 92:23
gain 102:20	generations 48:24	24:9 25:13 29:1	32:25 33:9,12,13	95:10,13 101:12
Gainesville 49:10	generously 2:14	30:4,6 32:11	36:6,7,13,14	102:11 103:9,12
72:25 76:16	0	41:18 49:14,16	41:15,15 42:18	102:11 103:9,12
95:6 105:25	genesis 114:12,19	51:19,24 52:6	42:19 43:4 45:2	109:9 111:2
106:22 128:13	genius 32:18 95:11	54:14 57:20		
gaining 60:17			45:2,16,21 46:15	113:25 114:2,5 124:25 130:4
gallon 68:18	geniuses 95:12	60:18 62:9,15,18 69:1 72:14 73:2	46:20 47:24,25	
gallons 127:1	gentleman 33:6 67:1 117:1	74:1 77:24 78:3	48:1,10,10,11,12	132:1,5
game 22:8	-		48:19,20,22	<b>Google</b> 130:6 132:4
games 84:8	gentlemen 3:17	78:14 79:17	50:12,13 51:3,17	
gap 28:8 42:2	geographic 94:6	85:7,10 90:6	51:18,20,21,23	Gordon 100:22
44:23 72:11	George 4:12 5:14	93:5,16 94:13	51:24 52:1,3	101:9 102:10
80:3	5:15,23 8:10,12	115:24 116:8,23	53:19,19 55:10 55:25 56:14	<b>government</b> 7:8
garden 86:25	8:13	121:18,22		14:24 15:23
garner 5:4	geothermal 26:6	123:17,18,25	58:21,24,25	18:14 25:18
gas 46:12,12	96:17	125:4 128:10	59:22 60:20	26:3 42:17
65:10 67:10	German 38:8	129:3,6,14 132:7	62:1,3 63:1 64:3	56:12,20 57:16
78:22 85:8,13,14	Germany 89:2,2	132:10	66:20 77:20,25	67:17,20,21,23
85:17,20 86:8,19	getting 30:15 44:7	<b>goal</b> 6:22 17:21	78:4,14 83:19	68:8,25 73:3
126:15	49:25 57:9	25:4 26:8,12,15	84:19 87:2	78:11 85:15
gaseous 78:25	58:14 66:21	29:2 31:19	88:12 89:20	90:16,20,24 92:8
85:7	71:21	33:21 64:20,23	93:21,22 94:2,22	98:7 106:1,20
gases 86:24	give 5:9 6:22 7:15	64:24 65:4,6	97:11 98:24	109:11 118:8
gases 80.24 gasoline 68:19	21:13 26:1,2	67:10 69:2,5,7,7	101:10,24	122:17 124:14
86:6	29:21 31:24	69:8,9,11,12,18	102:19 104:5	124:14,16
<b>Gavin</b> 91:21	33:14 37:25	71:17 73:15	105:12 106:3,16	126:10,12
Gavin 91.21 GDP 56:7	38:22 41:8 49:9	76:25 79:16	107:18,21	129:11
<b>gecko</b> 39:14,18	51:17,20,21 62:2	goals 4:14 12:19	110:23 115:20	governmental
geenu 37.14,10	98:10 113:19	26:4 46:21	121:16 122:3,8	6:20
	1			

r				
governments 74:5	9:12 10:4 11:4	growth 30:14 56:5	happens 20:8 78:9	35:20 36:4,12
119:22	20:24 22:14,14	63:16 68:23	102:3	49:1 59:13,16,17
government's	23:19 24:1,25	75:17 82:4 92:3	happy 12:10,16	59:19 65:21
42:6	40:22 46:7,9	92:25 108:6	15:18 17:5	66:3 90:23 91:3
Governor 10:5	49:14 53:17	126:6	34:21 40:14	92:2,13 101:15
25:23 64:20	56:24 57:12,12	<b>GRU</b> 49:22	130:24	117:12 130:18
65:3,5 95:19	57:23 64:8	128:13	hard 46:21 73:10	130:18 134:13
graciously 4:3	69:16 78:19	guess 46:13,22	77:14 105:14,14	helped 2:25 13:5
grad 31:18 32:23	79:5 80:16,20	98:14	105:15	30:16 133:13
grads 97:19	81:6,8,19,20,23	guest 75:10	harmful 127:2	helpful 14:7 25:17
graduate 15:9	82:16,20,21,23	guidance 134:4	harming 36:24	54:13 110:11
28:2 30:5 45:14	103:15,16,19,21	guide 84:15	harping 107:13	helping 2:7 117:7
76:8 99:5 108:1	103:23 104:6,12	guides 75:8	hash 127:2	134:4
108:8	104:14,17,21	Guild 34:15,18	hate 3:16	helps 55:1
graduates 82:11	105:24 107:9	guinea 33:20	hats 125:2	hemisphere 133:7
grandchildren	114:7,11 117:25	gum 126:2	Hawaii 121:13	hesitate 116:6
7:1	118:15 119:17	gun 120.2 guy 32:17 33:4	head 121:20	hesitating 115:20
granite 129:3	119:18 121:16	39:14 77:4	126:22 127:13	Hi 45:25 51:8
Granjean 13:14	121:24 127:21	128:2	heading 12:18	109:14 112:18
63:4 70:3 74:15	128:12 130:5	guys 4:8 38:18	26:13	121:10
80:16 90:11	greener 16:21	44:25 128:22	heads 41:8	high 4:14 10:2
96:2 103:14	greenest 57:22	11.23 120.22	health 53:12	29:10 35:23
107:24 110:24	greenhouse 65:10	H	healthcare 55:25	36:10,10 46:15
117:16 134:16	126:15	habits 26:4	hear 2:3 6:7 62:7	76:3 79:24 82:4
grant 44:4,23	grids 108:17	hairs 39:15,16	75:25 92:5,15	85:22,22 86:8,24
45:12 73:8	ground 104:23	Hale 77:5	94:5 104:13	91:3,5,25 93:11
74:16 76:4	group 4:20 5:3	half 45:21 49:3	117:15	94:23 101:22
78:10 80:10	9:2 30:6 45:19	51:12,15 53:17	heard 12:2 60:5	102:20
grants 42:23	59:9 60:12	62:10	60:13 61:4	higher 45:9 51:20
45:11 70:12	96:18 107:7	hand 5:7 62:2,21	65:23 69:1	58:5 76:25 84:5
74:17,24 75:4	110:10 119:10	131:23	77:15 80:2 83:4	94:14
76:9 77:3,7,9,11	130:11,11	handful 41:9	92:21 125:6	highest 5:18 81:24
77:12 80:6	131:17	handle 46:10	hearing 103:15	134:11
101:21	groups 28:24	hanging 79:22	129:12	highly 46:4,16
great 20:11 26:1	32:23 45:20	happen 10:10	heart 113:16	highway 48:16
27:2,3,6 38:25	92:7 109:23	29:4 56:14	hearts 114:11	<b>hinting</b> 87:14 88:7
38:25 52:5	groves 120:14	83:18 104:25	heat 33:2,3	hire 90:20
54:21 92:1	grow 15:1 38:7	106:15 122:9	heated 121:14	hired 17:16 90:13
99:25 109:1,2,7	64:4 65:21 66:3	124:22	<b>held</b> 84:18	91:16
112:4,6 134:17	75:24 93:18	happened 26:20	<b>Hello</b> 107:6	Hiring 90:11
greater 97:12	growing 5:21 10:1	69:23 85:9	130:10	<b>hit</b> 77:14
113:12	40:18 60:2,9	happening 25:15	help 3:3 6:5 16:6	hits 35:11
greatly 3:8 62:24	63:8 75:20	26:22 29:7	17:17,22 18:18	Hogan 101:9,9
118:14	104:10,15	55:13,21 56:14	23:6 25:14 28:3	hold 79:4
green 6:23 7:4,4,5	grown 29:5	56:25 86:14	29:15 33:21	holding 51:3
	~			Ĭ

holds 82:9	housing 73:24,24	74:13,15,15	<b>imitate</b> 34:2 38:1	improvements
Holler 107:6,6	74:1,1,3,7	75:19,23,23	immediately 38:2	103:24
home 18:11,12	Houston 97:23	80:16 82:25	70:1	improving 9:9
19:2,7 51:2	How's 125:17	83:9 90:10,11	impact 9:7 10:9	incend 86:19
97:18 106:7	hub 17:3 22:15	92:5 96:1 98:9	57:24 66:21	incent 89:23
122:3 129:2	34:17 112:24	101:12 102:7	67:3	incentive 22:18,19
homes 25:9 74:10	hubs 22:5	101:12 102.7	impacts 67:5,12	22:19 26:2
121:25	huge 23:18 29:20	107:24 109:2,4,9	73:24	71:12 89:3 93:9
	31:6 34:3 93:23	107:24 109:2,4,9		
homogenized			imperative 104:22	117:22 118:10
103:1	93:23 114:14,15	110:24 112:6,9	implement 48:10	122:22 128:9
honest 44:5	114:16 115:15	112:10,14	80:22 87:12,15	incentives 17:21
honor 59:18	120:8	116:19 117:12	87:23 105:9	19:10 22:20
Hopcraft 40:4,4	hundred 31:24	117:15,16 119:1	119:15 121:1,3,4	57:18 72:5 78:6
40:12,17,20 41:2	34:20 35:13	119:9 124:7	123:11,13 124:2	88:19,23 89:8
41:7 125:12,12	44:2 45:6 48:21	ideal 43:2 98:2	124:11	93:4,13 95:2
125:18,18	100:3	ideas 13:14,17,22	implementation	98:8 115:7
127:10	hundreds 116:2	14:6 27:3,6,20	63:13 64:1	116:3,14 117:22
hope 59:4 61:12	<b>hunt</b> 102:12	28:20 39:25	implemented	122:17 123:4,19
131:9	<b>hurry</b> 58:16	50:22 54:16,18	60:11,15 68:16	128:8
hopefully 6:15,16	HVAC 81:25	54:20 55:17	79:23 89:23	incidentally
48:14 134:3	<b>hybrid</b> 80:23	59:22,22 60:8,10	93:7 105:8,20	114:23
hopes 64:8	hydrocarbons	60:14,19 61:3,5	120:15 123:15	include 11:4
hoping 12:6 19:22	48:13	61:6,7,9,10	123:23	53:11 65:9 67:9
24:23,24 31:19	hydrogen 31:11	62:16 64:3	Implementing	103:22 111:8
33:12,17 34:17	46:19 48:14,16	72:15 75:17	67:4	includes 98:3
36:2 42:20 45:5	48:21 85:8	80:6 83:17	implications	108:8 126:9
45:6 49:1 50:13	86:18	92:17,20 95:13	69:21	including 29:24
51:14	hydrophonic	113:15,16,17	importance 76:25	70:13 98:5
horizontal 126:8	38:11	119:5 121:4	77:1 123:1	135:5
126:20	hypocrisy 51:2	124:7 125:1,6	important 13:8	inconvenient 39:3
horizontals 93:22		130:2 131:3	14:1,2,3,4 56:15	Incorporated
horse 89:10	<u>I</u>	134:6,9,10,18	60:1,2 61:6,8,21	15:6
116:13	<b>ICT</b> 17:14	identified 77:7,9	66:17 71:15,22	incorporating
hospitals 40:8	idea 18:9 19:8	82:14	75:10,13,19,23	76:11
70:13 126:10	25:21 27:2,10	identifies 81:22	76:12 77:4,9	increase 75:6
127:18	28:4 29:16 30:3	identify 17:18	82:3,14,25 83:9	incredible 48:15
hosts 133:16	32:14,24 33:11	59:14 60:12	84:3 104:11,16	incredibly 42:6
hot 96:4 121:14	34:16 35:24	62:15,22 82:17	107:10,11	incubating 96:16
hour 49:12 68:19	38:25 48:16	82:18 122:20	119:21	incubation 41:21
house 18:23,23,24	50:6 54:6 56:8	<b>Ignite</b> 97:18	imposing 56:20	96:4 98:3,16,23
50:11	60:24 61:13,23	ignorant 87:10	58:4	99:13 101:10
housecleaning	62:8,9 63:3 64:6	Illinois 97:6	impressed 6:8	102:16 103:1
40:7	65:24 70:3,9	image 59:11,17	impression 37:25	110:25
housekeeping	71:15,19,19	64:1	improvement	incubator 13:6
2:11	72:13 73:1	imagine 126:2	48:6 129:2	75:2 91:8 92:10

-				<u></u>
96:3,3,13,14	information	input 56:6 58:24	23:20 30:15	investments 27:8
97:24,25 98:10	62:13 113:7,9	60:17 131:5	32:2 38:18	47:2 79:15
98:10,18,21 99:4	123:15 130:17	Inside 37:9	49:18 67:22	85:25
99:17 100:10,19	131:11	inspiration 34:19	68:9 113:22	investor 33:19
100:21 101:19	infrastructure	install 24:8 80:21	128:8	50:23 98:4
102:8,13,15	22:7,14 23:19	installations	interested 19:22	investors 49:13
103:3,7,12 108:3	26:16 57:7	88:24 89:4	35:1 71:21	130:12
111:8 113:18	85:16 96:6	installed 19:25	112:22 115:8	invite 36:21 83:21
115:10,13 116:2	120:11,12	70:13 85:16	interesting 22:6	112:15 125:4
116:17 117:2,13	ingredient 41:2	installer 82:1	22:17 23:10	involved 42:8
incubators 77:6	125:23	installing 104:3	25:13 31:14	43:18,19 52:9,18
96:8,9,12 99:10	<b>initial</b> 14:5 31:23	installments	34:22 36:14	79:23,24 89:13
111:3 116:16	45:3	28:14	38:6 42:4 59:25	96:16 128:11
indicate 13:24	initiate 92:14	instance 22:9,25	81:11 101:18	ion 86:17 97:20
117:12	initiated 76:13	23:24 65:3	103:10 109:16	Iowa 81:6
indication 14:5	initiative 5:23	70:10 74:6 81:1	132:9	<b>IP</b> 76:13,17
indicators 119:18	11:5 12:13	91:15 111:21	interests 54:10	irrigation 96:17
119:19,23,24	14:14 16:2,13	117:24 118:9,16	106:18	issue 18:16 21:6
indirect 126:13	17:7,9 30:21	118:22	internal 12:20	42:11 44:6
individual 62:1	52:11 73:12	instances 30:25	internally 59:16	50:17 68:4
93:14 123:1	83:20 91:19	50:20	international 15:9	<b>issued</b> 70:12
individuals 62:16	92:12 93:16	instantly 124:22	57:15	issues 45:14 46:3
62:19 75:22	108:6 128:1	124:22,23	Internet 11:7	53:7 54:4 84:9
83:12 121:23	130:14	instill 106:24	96:16 123:16	89:13 107:19
125:9	initiatives 2:23	<b>institute</b> 12:17,25	interpreter 32:7	item 44:7 96:2
<b>indoor</b> 81:25	5:20 12:18 60:6	34:15,18 81:8,21	interview 3:16	items 68:24
126:13	63:22 69:10	97:4,8 108:19	introduce 5:2 8:2	it'll 88:3 128:16
industrial 21:5	82:16 83:5	112:19	invasive 41:1	-
industries 51:20	89:15 91:14	institution 89:24	invented 35:7	J
55:11,14 80:19	92:2 118:9	111:20	invention 10:15	Jackson 86:13
91:25 112:3	127:5	institutions 14:20	inventions 10:19	95:8
122:20 127:3	<b>ink</b> 135:11	43:18 87:18	40:15	Jacobs 28:7
industry 10:25	innovation 6:4	108:18,25 109:7	<b>invest</b> 19:13 47:15	Jacques 2:15 3:1
14:24 15:23	9:13,23 10:15	111:1,22	121:24	3:3 4:16 6:7,9
17:8,14,14 18:20	17:1 26:10,11	insulation 19:14	invested 70:17	14:13 15:5,18
23:12,13,21	29:4,4,15,17	insurance 66:14	<b>investing</b> 29:11,11	52:5 54:19
41:15 42:7 55:9	30:4 31:16	integrate 3:24	70:20 118:24	58:20,23 59:5
55:11,16 63:8,11	42:18 43:13,17	integrated 120:22	119:3	90:14 92:18,21
69:23 73:2	72:8,9,10 82:24	intellectual 78:20	investment 19:1,7	93:1 101:16
82:21 84:6	108:6 111:7	79:18,23	20:4,11 29:13	133:18,22 Jane 35:2
86:14 89:15	112:4	intended 76:5	43:23 46:9 47:9	
90:2 104:25	innovations 33:22	intensity 56:8	47:10 70:19	<b>January</b> 64:22 97:7
105:11 125:21	117:23	interaction 54:2	71:5 79:25 96:6	<b>Japan</b> 38:24
influence 128:6	innovative 9:5	interactive 84:9	97:16 107:4	<b>jazzy</b> 115:22
Infomart 114:24	10:2,16	interest 3:9 20:13	119:16 120:13	Jacey 113.22
	 		l	l

{				_0
Jeff 109:14	32:19 60:25	<b>Kirstie</b> 2:5 5:24	112:1	134:5
<b>Jerry</b> 90:13	84:11 130:1	13:10 72:2	known 17:12	lastly 17:2
<b>Jim</b> 2:21 87:8	Ken 69:15 104:21	kitchen 129:2	112:3	late 35:7
88:7,18 107:14	114:7 124:6	knew 112:22	know-how 96:24	launched 17:1
109:20 132:24	127:21	<b>know</b> 3:10 4:14	Kurt 96:20	26:23 28:5
133:15	kept 7:14	5:21 6:2,15 7:22		<b>Laura</b> 91:17
job 2:22 8:19 9:16	key 47:4 49:25	8:8,13,13 11:24	L	law 28:3 32:23
14:18 15:2,3,5	56:13 60:19	15:17 24:18	LA 22:24 23:1	64:25 65:21,25
42:16 63:9	82:13 118:23	26:17 29:6,20	lab 2:6 12:18,25	66:3 67:6
65:10 78:6	119:2,9 121:11	32:9 33:9,20,24	13:6 27:15	105:19 108:20
80:16,20 82:5,16	keynote 2:15	39:13,13 40:23	28:21 72:2 75:3	Lawrence 97:9
82:20 91:24	15:15	40:25 42:8	91:9 92:10 98:6	laws 65:18 66:8
116:25 122:13	kicking 14:13	43:15,21 46:20	99:9 108:3	105:19
126:21 134:17	128:4	47:3,12,22 48:5	labeled 46:9	lay 3:3
jobs 22:9 55:17	kidding 85:4	48:13,24 51:13	labels 126:3	laying 84:22
64:9 81:17,17,18	110:23	51:16 54:5 55:3	laboratories 87:3	lead 19:15 96:5
81:23 82:6,23	kids 36:13	55:7,18,18,19,20	Laboratory 70:15	111:12
88:3,18,20 89:5	kilowatt 49:12	56:6 58:12	97:9	leader 13:14
89:8,21 91:2	68:19	61:15,24 62:11	labs 28:1 97:19	53:24 58:2
92:4 121:16	<b>kind</b> 4:14,21	66:9,12 67:5	lack 115:9	63:10
126:21 132:10	12:21,21 13:17	72:12,13,14 74:3	lacking 72:10	leaders 14:24
<b>John</b> 4:12 5:11	17:4 18:24	76:21 77:24	lady 35:2	63:19,21 64:16
7:22,23,23,24	19:19 21:24	78:7,8 80:2 81:3	Lake 68:22 92:24	leadership 63:25
8:2,9,10 15:21	22:16 23:6 25:4	81:14 83:3,7,11	104:24 115:24	96:23 103:18
15:25 16:14	29:14 31:21	83:14 84:5,12,15		121:19
21:12 43:9	33:14 35:4,21	84:18,21 88:1,8	land 3:4 16:7	leading 22:5
60:13 61:4	36:4,13 39:22	88:11,14,15 89:2	29:20,24 43:11	82:18 96:11
77:10,15 80:8	40:22,23 43:2,22	89:20 100:7,11	94:14,15 105:17	97:20
113:20 115:3	44:15 46:8 47:7	100:14 101:2	106:15 119:21	leads 97:15
131:6,12	47:9,20 48:4	103:2 109:10,24	large 17:13,14	leaning 124:19
<b>Johnson</b> 129:19	53:3,7,24 54:1	109:25 110:2,8,8	22:4 36:20 60:4	learn 35:2 133:23
<b>John's</b> 72:8	55:6,19 56:24	110:12,13	65:7 72:6,6	learned 11:11
joint 74:21 109:19	57:16,18,19 58:6	112:13 113:14	110:9 127:5	59:23
<b>Jose</b> 22:10 29:23	61:16 66:9,21	114:8,17 115:9	128:24	learning 15:19
96:21,21 97:1	78:9 87:21 88:6	115:23,23,25	larger 72:5 94:15 127:8	leave 6:25 62:21
jour 77:3	88:17 90:2	116:2,6,14 117:3	largest 7:11 19:3	123:9 131:10
judgment 67:23	93:23 100:12,15	117:10 120:17	50:25 57:12	132:10
<b>July</b> 41:13	102:7 103:2	122:2,4 123:15	LaRoe 69:15,15	<b>LEED</b> 20:19
jumpstart 65:1	116:7 117:6	128:17,22,25	104:21,21 114:7	25:11 103:17,17 103:21 118:16
Junction 120:3	121:19 124:8	129:18 130:5	114:7 124:6,6	128:9
К	kinds 3:10 68:20 99:17 131:19	131:16 132:2,7 132:10 134:1	127:21,21	left 18:14 30:3
K 31:24 35:23	133:5		Las 29:23	85:19 87:13
44:2 45:6	<b>king</b> 41:14	knowing 110:20 knowledge 34:13	lasting 6:23 11:24	121:3 133:12
keep 3:15 8:19	King41.14 Kingfisher 39:8	53:14 108:11	12:4 132:13	legacy 6:25 134:5
	INITELISICI 39.0	55.14 100.11		10gacy 0.25 154.5
	l	1	I	1

legal/financial	light 32:20 37:25	14:20 22:19	107:21 110:13	79:19 90:3
129:9	38:1,3 128:25	29:22 31:20	113:25 114:12	95:12,13 96:22
legislation 18:19	lighter 26:7	32:2 33:22	114:18 115:12	102:21,22,25
56:12,20	lighting 126:13	34:19 36:8,10	115:12,21	102:21,22,25
legislature 47:20	lights 3:14	42:6,7,10,14	121:15 122:7	110:5,6 113:21
64:24 70:11	Lilliputian 97:21	50:1 63:12,21	124:11 130:16	114:8 120:7
84:23	limited 44:17 94:3	67:2 69:18 74:4	132:5 133:4,21	122:16,17,18
Leslie 1:14 11:16	line 34:23 43:6	74:5 90:19 94:1	134:7	123:3,17 127:15
131:22,22 135:4	44:7 62:11	98:6 106:4,19,23	looked 23:19	132:7,10,21
135:10	86:20 100:24	119:21 120:16	29:14 38:9,10	133:8,9
let's 5:10 96:1	lines 8:14 18:16	124:16 129:10	39:7 67:7 68:23	lots 119:14,14
116:11	113:23	locally 26:21	looking 11:5	lotus 38:6,6
level 4:14 16:25	links 108:13	66:20,21 74:9	12:14 14:2	love 92:15
25:12,23,25 29:3	132:16	95:17,20	15:13 19:6	low 20:10,16
30:7 33:18,22	liquid 85:6	located 64:16	20:24 21:25	23:18 46:11
38:10 47:25	list 4:23 21:16	93:20,21 94:11	20.24 21.25	73:17 79:22
50:14 57:2	35:18 100:16	97:10	26:11 29:12	84:18 85:10,11
66:22 67:2	126:4,20	location 1:13	31:9.24 34:8	87:25 94:13
69:17,18 74:5	listed 27:21 99:3	102:5 117:22	35:23 36:24	lower 46:14,17
· ·	listen 41:22	locked 20:8	37:20 40:1 42:9	58:6 76:25
78:7 100:12				
104:23 120:8,22	listening 4:11	Logan 121:10,10	43:1 45:11 48:8	88:21
121:21	listing 61:10	long 13:13,19	51:11,25 55:6	lowering 9:8
levels 25:22	130:18	25:12 47:11,12	84:1 94:16,17,17	<b>luckily</b> 100:6
lever 124:8	literally 87:4	47:15 48:11	94:18 107:11	lured 29:23
leverage 94:6 95:1	lithium 86:17	58:8 67:12 73:1	122:5,14 126:3	Lynx 85:15
leveraging 99:2	97:20	106:17 116:10	129:19	M
levers 117:21	little 3:15 4:7 8:1	120:4	loose 110:4	machinery 86:2
Lewis 4:12 7:22	8:6 9:20 11:12	longer 17:7 47:3,6	Los 81:21 111:11	Madam 119:11
		1 1 1 X 1 7 1 7 X	I III'I'' I''	
8:3,10,10 41:18	16:18,21,22	47:8 127:23	111:14,15	
52:5 54:12	24:18 28:6	longest 21:10 48:7	115:18	magic 42:2
52:5 54:12 56:10 76:24	24:18 28:6 52:22 53:15,16	longest 21:10 48:7 long-term 108:21	115:18 lose 102:3	<b>magic</b> 42:2 <b>magnet</b> 111:19
52:5 54:12 56:10 76:24 92:18 113:20	24:18 28:6 52:22 53:15,16 58:16 60:13	longest 21:10 48:7 long-term 108:21 long-time 96:23	115:18 lose 102:3 loss 32:17 65:17	magic 42:2 magnet 111:19 magnifying 59:9
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19	magic 42:2 magnet 111:19 magnifying 59:9 main 16:3,8 19:20
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5 127:7 131:7,13	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14 84:4 85:3 88:7	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15 14:17 15:12,19	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19 19:21 20:1,13,13	<b>magic</b> 42:2 <b>magnet</b> 111:19 <b>magnifying</b> 59:9 <b>main</b> 16:3,8 19:20 21:24 30:20
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5 127:7 131:7,13 131:16 133:13	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14 84:4 85:3 88:7 88:14,18 94:20	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15 14:17 15:12,19 21:1 35:12,21	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19 19:21 20:1,13,13 21:19 22:13,18	<b>magic</b> 42:2 <b>magnet</b> 111:19 <b>magnifying</b> 59:9 <b>main</b> 16:3,8 19:20 21:24 30:20 31:19 53:22
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5 127:7 131:7,13 131:16 133:13 <b>licensing</b> 76:19	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14 84:4 85:3 88:7 88:14,18 94:20 100:5 101:10	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15 14:17 15:12,19 21:1 35:12,21 39:10 40:25	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19 19:21 20:1,13,13 21:19 22:13,18 23:14,20,21,22	<b>magic</b> 42:2 <b>magnet</b> 111:19 <b>magnifying</b> 59:9 <b>main</b> 16:3,8 19:20 21:24 30:20 31:19 53:22 56:24 58:9
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5 127:7 131:7,13 131:16 133:13 licensing 76:19 Liebig 16:25	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14 84:4 85:3 88:7 88:14,18 94:20 100:5 101:10 109:17 116:12	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15 14:17 15:12,19 21:1 35:12,21 39:10 40:25 47:23 48:18	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19 19:21 20:1,13,13 21:19 22:13,18 23:14,20,21,22 24:7,13 25:8	<pre>magic 42:2 magnet 111:19 magnifying 59:9 main 16:3,8 19:20 21:24 30:20 31:19 53:22 56:24 58:9 maintain 80:23</pre>
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5 127:7 131:7,13 131:16 133:13 licensing 76:19 Liebig 16:25 26:25 27:8,17	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14 84:4 85:3 88:7 88:14,18 94:20 100:5 101:10 109:17 116:12 122:5 123:8	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15 14:17 15:12,19 21:1 35:12,21 39:10 40:25 47:23 48:18 55:15 57:15	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19 19:21 20:1,13,13 21:19 22:13,18 23:14,20,21,22 24:7,13 25:8 26:13,17 27:2,4	<pre>magic 42:2 magnet 111:19 magnifying 59:9 main 16:3,8 19:20 21:24 30:20 31:19 53:22 56:24 58:9 maintain 80:23 86:3</pre>
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5 127:7 131:7,13 131:16 133:13 licensing 76:19 Liebig 16:25 26:25 27:8,17 28:15 30:10	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14 84:4 85:3 88:7 88:14,18 94:20 100:5 101:10 109:17 116:12 122:5 123:8 129:18 134:12	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15 14:17 15:12,19 21:1 35:12,21 39:10 40:25 47:23 48:18 55:15 57:15 58:8 61:9,11	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19 19:21 20:1,13,13 21:19 22:13,18 23:14,20,21,22 24:7,13 25:8 26:13,17 27:2,4 27:5 30:14 33:3	<pre>magic 42:2 magnet 111:19 magnifying 59:9 main 16:3,8 19:20 21:24 30:20 31:19 53:22 56:24 58:9 maintain 80:23 86:3 maintaining</pre>
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5 127:7 131:7,13 131:16 133:13 <b>licensing</b> 76:19 <b>Liebig</b> 16:25 26:25 27:8,17 28:15 30:10 31:15	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14 84:4 85:3 88:7 88:14,18 94:20 100:5 101:10 109:17 116:12 122:5 123:8 129:18 134:12 <b>live</b> 130:4	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15 14:17 15:12,19 21:1 35:12,21 39:10 40:25 47:23 48:18 55:15 57:15 58:8 61:9,11 62:9 73:25 74:2	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19 19:21 20:1,13,13 21:19 22:13,18 23:14,20,21,22 24:7,13 25:8 26:13,17 27:2,4 27:5 30:14 33:3 36:12 39:24	<pre>magic 42:2 magnet 111:19 magnifying 59:9 main 16:3,8 19:20 21:24 30:20 31:19 53:22 56:24 58:9 maintain 80:23 86:3 maintaining 48:14</pre>
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5 127:7 131:7,13 131:16 133:13 <b>licensing</b> 76:19 <b>Liebig</b> 16:25 26:25 27:8,17 28:15 30:10 31:15 <b>lien</b> 50:11	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14 84:4 85:3 88:7 88:14,18 94:20 100:5 101:10 109:17 116:12 122:5 123:8 129:18 134:12 live 130:4 loan 128:2,2,4,12	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15 14:17 15:12,19 21:1 35:12,21 39:10 40:25 47:23 48:18 55:15 57:15 58:8 61:9,11 62:9 73:25 74:2 76:14 77:11	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19 19:21 20:1,13,13 21:19 22:13,18 23:14,20,21,22 24:7,13 25:8 26:13,17 27:2,4 27:5 30:14 33:3 36:12 39:24 40:24 42:3 48:5	<pre>magic 42:2 magnet 111:19 magnifying 59:9 main 16:3,8 19:20 21:24 30:20 31:19 53:22 56:24 58:9 maintain 80:23 86:3 maintaining 48:14 maintenance 82:1</pre>
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5 127:7 131:7,13 131:16 133:13 licensing 76:19 Liebig 16:25 26:25 27:8,17 28:15 30:10 31:15 lien 50:11 life 34:2,2,8 46:2	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14 84:4 85:3 88:7 88:14,18 94:20 100:5 101:10 109:17 116:12 122:5 123:8 129:18 134:12 live 130:4 loan 128:2,2,4,12 128:20 129:25	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15 14:17 15:12,19 21:1 35:12,21 39:10 40:25 47:23 48:18 55:15 57:15 58:8 61:9,11 62:9 73:25 74:2 76:14 77:11 81:17 83:15	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19 19:21 20:1,13,13 21:19 22:13,18 23:14,20,21,22 24:7,13 25:8 26:13,17 27:2,4 27:5 30:14 33:3 36:12 39:24 40:24 42:3 48:5 50:16 52:19	<pre>magic 42:2 magnet 111:19 magnifying 59:9 main 16:3,8 19:20 21:24 30:20 31:19 53:22 56:24 58:9 maintain 80:23 86:3 maintaining 48:14 maintenance 82:1 127:13</pre>
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5 127:7 131:7,13 131:16 133:13 licensing 76:19 Liebig 16:25 26:25 27:8,17 28:15 30:10 31:15 lien 50:11 life 34:2,2,8 46:2 46:24 73:25	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14 84:4 85:3 88:7 88:14,18 94:20 100:5 101:10 109:17 116:12 122:5 123:8 129:18 134:12 live 130:4 loan 128:2,2,4,12 128:20 129:25 130:1	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15 14:17 15:12,19 21:1 35:12,21 39:10 40:25 47:23 48:18 55:15 57:15 58:8 61:9,11 62:9 73:25 74:2 76:14 77:11 81:17 83:15 84:12 88:25	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19 19:21 20:1,13,13 21:19 22:13,18 23:14,20,21,22 24:7,13 25:8 26:13,17 27:2,4 27:5 30:14 33:3 36:12 39:24 40:24 42:3 48:5 50:16 52:19 54:3 55:5,16,17	<pre>magic 42:2 magnet 111:19 magnifying 59:9 main 16:3,8 19:20 21:24 30:20 31:19 53:22 56:24 58:9 maintain 80:23 86:3 maintaining 48:14 maintenance 82:1 127:13 major 50:18,23</pre>
52:5 54:12 56:10 76:24 92:18 113:20 114:23 115:5 127:7 131:7,13 131:16 133:13 licensing 76:19 Liebig 16:25 26:25 27:8,17 28:15 30:10 31:15 lien 50:11 life 34:2,2,8 46:2	24:18 28:6 52:22 53:15,16 58:16 60:13 62:3 77:6 78:14 84:4 85:3 88:7 88:14,18 94:20 100:5 101:10 109:17 116:12 122:5 123:8 129:18 134:12 live 130:4 loan 128:2,2,4,12 128:20 129:25	longest 21:10 48:7 long-term 108:21 long-time 96:23 look 10:5 13:15 14:17 15:12,19 21:1 35:12,21 39:10 40:25 47:23 48:18 55:15 57:15 58:8 61:9,11 62:9 73:25 74:2 76:14 77:11 81:17 83:15	115:18 lose 102:3 loss 32:17 65:17 lot 8:8 13:3 15:19 19:21 20:1,13,13 21:19 22:13,18 23:14,20,21,22 24:7,13 25:8 26:13,17 27:2,4 27:5 30:14 33:3 36:12 39:24 40:24 42:3 48:5 50:16 52:19	<pre>magic 42:2 magnet 111:19 magnifying 59:9 main 16:3,8 19:20 21:24 30:20 31:19 53:22 56:24 58:9 maintain 80:23 86:3 maintaining 48:14 maintenance 82:1 127:13</pre>

		_		
105:21 107:15	63:2 134:14,16	17:10 19:20	31:5 43:25	middle-skill 81:22
maker 84:8	Mark 66:6 73:21	58:2 90:12,18	54:16 60:13	midrange 65:16
makers 68:8	76:24	91:21 134:4,6	61:4	Mike 86:12 95:8
105:19	market 4:21 23:3	Mayor's 53:23	mentioned 4:18	102:11 113:12
making 10:22	23:18 28:22	ma'am 125:11	13:11 15:25	mildew 126:6
79:15 103:24	30:24 32:11,13	mean 23:7 26:9	16:14 18:2	mile 21:9
106:9 107:3	32:25 59:14	34:23 39:14,15	21:12 41:9,11	miles 111:15
115:24 122:6	65:1,20 66:1	40:18 41:13	53:9 70:5 72:3	milestones 28:15
<b>тападе</b> 23:6	67:17,20 69:1,10	42:5 43:15 52:2	92:8,9 102:1	million 21:8 29:25
45:16	69:24 71:24	54:6 55:18	117:3 120:2	30:17 58:10
managed 97:8	84:20 87:19	56:22,23 57:8	122:12	70:12 71:10
management 15:7	89:6,18,21 90:1	58:10,11 69:8	mentor 2:7	72:4 86:15
107:2	91:12 114:3	103:24 106:1	mentoring 75:1	115:2
manager 14:14	118:13 128:24	110:2 115:6	98:5 99:20	millions 39:15
15:5 16:1 90:12	marketability	117:18 120:2	message 6:21	80:21 116:3
90:14,20,23	28:20	meaning 7:4 34:2	102:18	127:1
92:13,25 93:2	marketing 15:11	34:2 89:23	<b>met</b> 84:14 114:9	mimic 34:2
95:7,23 105:8	59:11 113:17,25	meaningful 134:7	Metaruse 18:8	mimicking 47:4
122:24	117:6,9	means 6:13 8:22	methane 46:18	mind 48:17 57:14
<b>mandate</b> 57:20	marketplace 46:4	9:1 35:10 65:7	Metro 41:25 60:4	60:25 104:19
118:16 124:10	85:11 89:16	103:17	61:6 63:10,23	119:6 125:15
128:7	121:25	measurable 69:20	64:4 65:22 66:3	130:2
mandates 57:23	markets 49:4	measures 89:23	75:20,24 83:20	mindsets 112:14
69:22 70:1	127:4	mechanics 82:12	91:2,7 92:3 93:5	mineral 41:3
105:13	market's 90:5	86:4,5,10,21	93:6,24 94:4	126:5
mandating 20:17	Mark's 77:25	mechanism 50:10	95:1,3 97:25	minimal 118:18
manufactured	Massachusetts	57:19	98:11 109:2,9	minimize 80:11
31:8	97:12	medical 55:24	111:1,6 112:6	<b>minimum</b> 118:16
manufacturer	massive 86:13	77:6 103:22	117:19 118:24	minion 30:21
29:22 32:1	master's 15:8	110:7 115:16,25	122:16	Minnesota 82:9
manufacturers	<b>match</b> 9:21	116:4 133:19	<b>Mexico</b> 31:6,8,13	<b>minute</b> 13:20
40:24,24 111:17	matching 76:4	meet 12:11 36:22	81:2	58:21 62:1
manufacturing	101:22	47:16 115:6	<b>Miami</b> 127:11	<b>minutes</b> 5:4 13:24
31:7 71:13	materials 26:7,8	meeting 40:13	mic 60:21 61:21	54:17 62:7
72:15 73:22	27:18 35:16	46:21 86:12	66:5 75:25	125:10 130:8,9
81:20 82:6,8,8	73:25 99:6	134:21 135:5	84:25 119:7	miracle 91:4
110:25 111:8,11	106:10 108:15	meetings 11:25	Michael 107:6	mirrors 37:24
111:16 115:10	mathematical	megawatt 49:18	130:10	missed 131:24
115:13	111:25	megawatts 19:25	microphone 2:4	missing 47:23
map 133:10	matter 40:1 123:5	49:15	63:2 71:25 80:5	121:5
March 49:17	maximum 109:1,8	member 91:22	83:21 92:16	mission 91:1,6,22
135:7	mayor 5:15,23	members 92:9	104:20 112:15	108:12
marginal 51:21	6:10,21 7:19,19	107:25	microphones 3:20	MIT 97:19,19
Marielle 13:14	8:5 11:3 13:1,4	mentality 90:2	microscopic 37:23	<b>Mitsubishi</b> 2:14
14:7,10 60:18	14:22 16:9	mention 28:25	39:15	2:24 66:25
	l	1	l	I

104:2 133:1,5	85:18 86:1	108:3 109:15,18	89:9 93:3 94:23	113:1,3,6 114:5
Mitsubishi's 2:22	mountains 79:4	109:21 110:3,4	94:23,24,24 95:6	114:21 115:3
MIT's 97:18	mouth 37:9,19	125:24	95:22 98:2	117:1 119:1,12
mixed 21:19	mouths 37:7,8	Nashville 104:8	99:24 107:19,21	121:8 122:10
mixture 22:19	move 21:11 25:1	nation 51:10 60:7	114:18 119:15	124:4,25 125:14
57:17	30:1 43:7 45:15	95:21 97:14	119:18 120:20	127:20 130:7
model 11:8 19:23	48:12 50:9 54:8	104:5	121:6,19 123:8,8	131:1.8,14
36:11 37:16	55:4 58:7 61:15	national 20:22	<b>needed</b> 68:5 102:6	133:12
38:23,25 40:22	73:16 85:6 90:9	70:15 95:16	needs 15:3 21:23	<b>new</b> 10:18,19,19
53:25 98:2	96:1 103:13	96:7 100:12	43:14 45:2 67:7	25:6,11 26:7,9
models 58:13	133:22 134:14	nations 10:14	68:16 69:7,11,19	27:17 32:13
72:18	<b>moved</b> 20:16	67:19	69:19,20 70:1	34:20 35:14
moderate 2:8	55:23	nationwide 49:3	73:13 79:10	39:20 49:2
modest 75:16	moves 68:15	<b>nation's</b> 14:16	84:13 86:22	50:22 55:3
modify 119:24	102:5	native 125:20	105:20 114:12	63:22 65:5
Moffett 77:4	moving 16:9 17:8	natural 9:6 34:17	116:20 122:25	80:17,18 81:2
mold 126:6	19:19 48:13,18	37:12 41:3	negative 9:7 67:12	82:23 96:22
molecule 38:10	50:14 57:3	46:12,12 67:10	nest 43:7	97:23 103:22,22
moment 46:6	muddy 38:7	78:22 85:8,13,14	<b>network</b> 21:7,16	103:23 104:7,7
moments 125:20	multi-disciplina	85:16 86:19	98:4,17	107:11,21
money 29:9 42:25	110:16	126:5	networking 55:19	107:11,21
49:25 50:2 71:5	multi-topical	<b>nature</b> 34:4 35:4	58:22 59:21	111:18,19,22
73:5,13 74:8	110:16	35:5 37:20,21	91:12	112:2 115:23
75:16 76:15	<b>municipal</b> 105:4	39:25 40:16	net-zero-energy	112.2 113.23
77:11 79:8,19	106:24	47:4,5	25:3	123:7 128:16
84:23 101:17,23	municipalities	<b>nature's</b> 36:16	neutral 124:17	newly 45:20
101:24 102:2,4	57:2	Navy 95:9	never 18:25 27:20	<b>news</b> 6:16
105:16 106:1	municipality	near 113:15	55:17 128:17	Newsom 91:21
114:2 119:25	124:10	114:25 120:3		nice 93:1
121:2 122:4			Neville 59:3,8	
	<b>music</b> 98:14	<b>necessarily</b> 60:16	65:23 66:24	<b>night</b> 3:2 43:22
127:4 128:2,2,4	N	88:19 99:14	67:14 69:13	<b>nit</b> 88:11
monitor 133:6	N 2:1	necessary 128:19	70:2 71:18	<b>nitrogen</b> 46:14
month 12:3 71:4	name 31:15 35:2	<b>necks</b> 85:14	72:19 73:20	<b>nodding</b> 78:16
months 4:5	38:13 40:4	need 7:15 8:25	74:12 75:21	non 21:3 41:1
102:19 127:12	60:22 61:18	12:8 17:20 21:7	77:15 80:1,14	42:15 46:5
132:12	92:16 94:22	26:15 27:14	83:3 84:1,24	52:17
morning 6:1,6,10	109:24 112:18	29:15 35:21	85:3 87:5 88:5	Nona 115:24
6:11,12 7:18,24	113:1 125:12,18	43:6,10,13 55:3	89:11 90:7 92:5	nongovernmental
7:25 12:9 14:13	130:10	56:5 58:16	92:19 94:5 95:4	53:10
54:22 59:3,20,25	named 91:20	63:22 69:4,16,22	95:24 98:13	nonprofit 70:23
60:5,22 61:4	92:12 110:12	69:25 75:15	100:2 101:8	<b>nontoxic</b> 94:21
- · / <b>6</b> · [ ] V 2 · / ()() [ ]		77:11 80:20	102:9,14 103:9	non-profit 90:25
75:11 83:4 99:1		I 81+13 82+15 15	104:13 105:23	North 52:14 53:1
102:11 120:5	name's 2:5	81:13 82:15,15		
	<b>nano</b> 33:5 96:24 99:6 102:24	82:16,18,19,20 82:22 88:21	107:5,22 109:4 110:17,21 112:9	Notary 135:11 notch 58:5,5

<b>notes</b> 47:5 132:9	128:8	operational 7:21	60:23 61:19	overlook 79:21
135:6	offers 81:3,7	operations 8:4	70:24 93:7	overnight 121:20
<b>noticed</b> 46:10	office 6:24 71:7	15:1	127:23,24	overview 16:12
62:15	103:22 108:21	operator 51:1	131:21	33:14
Nova 95:9	120:7 126:10	opinion 84:21	organizations	overwhelming
nox 47:7	offices 127:24	opinions 90:8	52:24 53:10,17	53:13
nuclear 67:9	officials 5:18	opportunities	60:1 90:25 92:7	<b>Owens</b> 70:15
89:15	14:24 120:21	63:9,16 78:19	103:11 123:17	owned 124:12
nugget 19:5	offs 46:10 47:6	79:5 81:13,19	organized 110:1	owner 120:25
<b>number</b> 17:21	<b>Oh</b> 41:18	91:25 114:1	organizing 54:15	ownership 74:2
21:4,17 31:25	oil 23:16 56:6	120:9 126:21,25	132:21	oxide 46:14
36:7,23 42:23	<b>oils</b> 3:10	opportunity	Original 72:25	oxygen 126:14
43:18 62:22	okay 2:2,5 5:13	31:21 62:17	<b>Orlando</b> 1:13,24	o'clock 6:12 12:9
72:6,6 83:11,13	51:21 90:19	109:1,8 112:5	2:25 3:4 15:4	12:9
92:7 98:17	97:13 110:17,21	opposed 50:24	17:13 41:25	
109:18 112:13	125:18	51:1 66:19 94:4	52:8 60:4 61:6	Р
nurture 30:3	old 10:20 30:18	opt 18:20,20	63:10,24 64:5	<b>P</b> 2:1
43:13	69:1 86:25	optic 32:18	65:22 66:3,18	Pace 108:20
nurtured 29:5	older 51:20	optics 96:25 99:5	74:6 75:20,24	package 6:13 8:7
nutshell 34:4	Olympics 38:21	optimism 63:7	83:20 90:22	10:5 13:2 29:24
126:5	once 15:3 30:5	optimize 9:6	91:2,7 92:3 93:5	42:24
Nyda 59:8 131:13	54:6 63:20	optioned 105:3	93:24 94:1,12,13	packaged 128:20
131:17	87:22 105:22	orange 1:4 3:13	95:2,3,17 97:25	page 100:7
	110:23 116:17	4:13 5:11,16	98:11 109:3,10	pages 118:11
	132:23	6:13 7:16 8:4,11	111:1,6 112:6	135:5
<b>O</b> 2:1	ones 9:2,3 10:17	8:14,18 10:24,25	117:19 118:24	paid 91:19
<b>Obama</b> 10:6 49:2	10:20 14:6	11:4,19,20 13:7	122:16 124:9	painstaking 60:12
51:11	23:13 57:3	15:22 53:5	Orlandoan	paint 38:12,14
objective 68:12	82:23 99:3	66:18 80:9	125:20	pair 28:16 45:10
objectives 4:15	118:19 123:7,7	85:15,24 91:5	Orlando's 63:23	<b>Palm</b> 18:6 19:19
92:14	one's 14:3	99:25 103:21	<b>Osceola</b> 114:16	panel 19:8 24:9
observation	one-page 118:11	114:3 127:5	OUC 66:22	29:22 35:8
113:13,25	one-stop 108:12	132:18 135:2	ought 14:2 66:15	<b>panels</b> 18:10
obviously 15:23	ongoing 63:14	orchestrated	outcome 33:21	19:11 32:15
23:14 50:7 53:1	online 81:7,9	93:23	outlets 122:2	35:7,15 72:24
53:22 56:13	open 3:18 4:19	order 17:20 25:24	outside 12:22 95:1	75:7 80:21
occupations 81:23	5:3 31:17,20	26:14 35:20	101:24 105:3	parade 87:9
occur 12:8	60:20 62:14	61:17 65:1	outsider 31:18	paradigm 47:14
ocean 79:3	89:24 90:5	orders 126:12	overall 17:23	park 34:14 98:20
<b>October</b> 36:6 75:4	113:6 125:4	ordinances 104:7	19:14,16 25:4	111:19
offer 63:7 64:3	opened 27:24,25	104:12,18 106:4	65:8 90:21	part 3:16 4:2 13:1
117:24 125:8	127:24	119:24 120:16	overdue 73:1	13:9,10 19:5
offered 63:17 81:5	opening 31:17	<b>Oregon</b> 118:4	overhead 80:12	22:10,24 25:13
offering 81:8,10	operation 5:17	organization	overlapping	26:23 28:7,11
83:15 87:20	81:25	52:17 53:4	101:3	29:11 33:8,10

		_		
37:13 47:19	72:23 76:20	24:3,6,10 43:12	30:23 31:14	plenty 62:21
51:25 72:10,11	100:25 129:6,24	118:1 122:19	37:24 46:25	72:18 80:25
79:13 82:8	129:25	person 7:18 12:11	58:14 70:1	plug-and-play
110:9,14 114:16	paying 49:12	19:1	76:22 88:20,24	31:11
131:20	66:12 129:4	personal 43:21	115:8 122:18,19	plus 9:13,13
partially 97:7	payment 49:12	personally 116:23	123:13 124:15	125:21 130:1
participate 49:20	pending 40:6	personnel 105:8	places 42:9 57:21	plysistine 105:11
participation 98:7	people 7:6 12:1	perspective 26:1	73:3 81:5	pocket 18:15
131:4	18:16 19:11,21	28:2 53:23	123:18	point 6:21 16:3
particles 125:25	21:20 24:10,14	79:25 93:24	plan 24:19 41:14	22:8 27:21
particular 4:22	25:15 33:24	103:10 115:23	66:10 95:10,11	31:18 33:20
7:18 16:16 31:9	34:17 35:20	petroleum 85:6	95:15,16,16,23	44:6 51:25
39:8 71:19	49:19 51:14	85:12	120:20	58:13,21 72:20
77:19 82:9	53:21,24 54:4,7	photon 32:19	planet 95:22	76:11 77:25
98:18 101:14	55:7 56:1 58:7	35:10	planning 25:15	79:2 101:23
particularly 77:9	68:13 69:25	photonics 101:19	108:21,23	106:22 110:10
97:2	80:20 85:13	photons 32:15	plans 66:14 80:22	125:5
parties 105:16	87:25 88:1 89:4	photosynthesis	120:23	points 51:19
partner 7:16,22	89:18,19 90:1,5	35:12,14	plant 38:11 51:1	60:20 107:8
8:2 36:20 108:2	109:18,21 110:5	photovoltaic	plants 20:2 21:2	118:18
partnered 34:15	110:6 114:11	49:13	34:5,13 66:14	poled 76:5,13
partnering 45:18	119:14	phrase 42:2	70:13	police 20:2
partners 74:23	percent 19:15	physical 96:7	plastic 36:25	policies 15:1 16:9
84:16 99:25	20:22 25:24	111:24	94:20	16:23 17:21
partnership 34:10	29:3 30:12 35:9	pick 62:18 76:20	plastics 94:17	63:12,18 64:2
73:22 76:6	35:10,11,13	77:2	plateau 12:24	96:6 97:14
partnerships	48:21 49:22	Pickens 86:12	plausible 23:17	108:5 117:20
82:22 84:5	64:6,21,25 65:4	95:8	<b>play</b> 30:2 64:2	118:4 121:4
parts 12:13 16:2	65:5,6,14,15,16	<b>pickup</b> 20:15	67:6	122:15 123:6,13
29:19 37:17	67:11 68:2	58:23	players 52:19	123:14,15,23
47:24 58:10	69:19 72:23	<b>picture</b> 114:3,24	114:10 129:18	policy 24:2,17
Pasedona 97:11	100:4 118:6,7	115:4	playing 47:20	46:25 47:10
passed 13:25	121:13	piece 42:1	108:24 109:6	56:18,23 64:1,12
25:20	percentage 12:1	<b>pieces</b> 94:20	121:21	66:22 67:21,23
passion 43:22	64:17 72:13	<b>Pierce</b> 68:22,22	please 3:20 66:4	68:8,8,12,15
61:11	perception 117:7	92:24,24 94:8	71:25 75:25	69:21 79:12,16
pastures 120:14	perfect 30:23 57:8	122:12,12	87:7 92:15	79:25 86:19
patent 40:6	performance 9:9	<b>pig</b> 33:20	102:10 104:20	106:2 108:16
path 69:8	25:3 73:14	Piggybacking	113:11 114:6	117:21,23 118:9
Patterson 65:6	79:10,11	67:1	121:9 122:11	118:23 119:2,13
Paul 121:10	performance-b	<b>pillar</b> 17:11	124:5 125:11	119:15,22 124:8
pause 112:17	119:23	<b>pilot</b> 98:7	130:2	poll 68:1,3
paved 120:10	period 61:25	<b>piping</b> 21:7	pleasure 6:6	<b>pollution</b> 67:23
<b>pay</b> 18:21 50:12	permicity 19:21	<b>place</b> 6:4 8:21	12:12 15:21	68:10
66:13 68:6	permitting 16:7	9:21 10:21 11:8	58:18 131:2	pollution's 79:3
	l	l	l	I

polymers 94:18	practice 99:10	prevent 105:21	134:8	101:13 106:25
pool 129:1,4	practices 2:17	prevents 126:6	processes 122:19	108:8 119:8
pop 87:21	4:23 13:12	previous 77:22	processing 94:19	122:24 124:16
popular 134:10	16:19 19:24	previously 72:3	Procurement	124:20 129:11
portfolio 64:13,15	24:5,25 78:21	price 28:22 32:25	118:4	programs 13:1
67:8 68:15	Pratt 108:19	48:2 85:12,13	produce 10:2	15:1 17:8,22
portion 58:25	precompanies	principal 114:10	121:21	35:23 36:3 43:4
<b>Portland</b> 22:1,13	27:11	principals 82:13	produced 46:14	44:8,13 45:17
57:4,4,11 118:4	preferably 128:20	prior 15:4 19:12	product 13:14	53:7 78:7 80:17
posed 83:7	pregnant 112:17	priority 88:21	38:17 40:5	80:25 82:17,19
position 63:23	prejitter 125:19	134:11	68:20 84:20	83:1,10 84:5,15
67:24 92:20,21	premiere 2:18	private 49:13	125:22,24	89:3 91:10 98:8
92:22 93:1	60:6 114:17	74:20 120:12	126:11,16	108:10,23
97:22	preparing 134:3	privatize 79:13	production 33:8	116:18 122:22
positioned 106:21	preready 115:10	privilege 59:18	68:21 118:22	124:14
positions 105:9	present 14:10	probably 15:2,4	products 9:6 10:3	progress 41:12
126:24	41:11 52:11	18:12,15 23:8	17:24 25:16	51:4 81:12
<b>positive</b> 49:9	59:22 62:8	32:11 34:6	27:20 34:20,21	progressive 56:18
possibilities 12:15	125:7	35:25 37:14	41:4 111:5,9	63:18 104:25
13:12 37:5		41:13 42:9	126:1	105:8
134:3	presentation 11:20 41:23	52:22 54:9 67:3		
		J	product's 127:8	<b>project</b> 19:5 28:9
<b>possible</b> 26:5,12	77:8 93:2	80:10 88:11	Professional	44:19,24 70:21
36:25 68:11	101:17 125:1	100:10,23	135:4	75:6 76:8
possibly 42:9 61:7	132:15 134:1	128:22 130:4	professor 75:5	114:20 120:1
73:17	presentations	134:1	83:24	128:16
potable 21:3	11:22 12:6	problem 24:7	professors 17:2	projects 28:8 41:9
potential 27:8,12	15:14	36:18 38:25	profile 5:18 82:4	43:23 45:8 70:8
29:20 31:7 34:3	presented 60:24	54:9 57:21 68:7	profit 52:17 79:13	77:24,25 91:5
39:24 42:16	104:1	84:4 88:16	87:21	108:14 129:20
53:14 57:24	presenting 2:22	95:14 106:20,21	program 16:1	prominent 37:21
81:24 82:5	4:16 53:3 61:23	problems 34:9	17:9 18:4,5 19:4	110:14
potentially 5:1	131:3,11	36:23 84:9	19:9,20 22:21,22	promise 82:9
23:17 27:14	presents 60:18	127:15	26:23 31:15	promote 90:21
30:2,14 37:1	61:13	process 4:15 16:6	32:3 40:10	91:22 92:3
44:24	preserve 7:2	19:3 21:10 24:3	41:21 45:15	101:13
pounds 39:18	pressure 26:3	24:7,7,10,15,23	50:7 52:17	promoting 14:18
power 2:14 20:1,5	39:18 86:8,24	28:10,12 29:19	72:24 74:17,18	54:17 75:17
26:6,17,18,21	presumably 84:19	30:4 31:25	74:23 75:12,12	90:16 125:22
32:16 35:6 46:1	pretty 3:5 12:3	33:16 42:19	75:16 76:4 81:7	proof 27:15 74:25
64:7,10,21 65:14	22:5,6 28:1	58:6 63:14,19	81:11 89:25	76:17,18 79:7,22
66:14,25 133:2,6	38:23 39:12,14	76:23 82:14	90:12,14,20,22	101:20
powered 23:18	39:16,19 44:14	89:22 94:20	91:9 92:11,13,25	properties 38:11
86:6	48:15 57:14	102:3 103:1	93:2,13 95:7,22	property 20:1
powerful 106:17	58:13 62:6	118:1 120:18	98:19,23,24	78:21 79:18,23
			99:13,20 101:10	

proposal 44:10	89:24 106:3	Qualcam 37:19	60:14 71:11	55:13 57:5
48:16 71:2	118:23 119:2	Qualcom 16:5	81:24	68:17 73:13
proposals 76:10	120:6,13 125:20	21:21 31:23	rank 84:21	77:11 83:17
propose 47:9	130:16,17	42:5 74:23	rapid 82:4 106:18	86:7 88:16
124:8	135:11	<b>qualified</b> 80:19	122:18	89:19 94:16
proposed 64:20	<b>publicly</b> 70:19	quality 81:25	rate 20:9,10 35:8	95:13 99:24
65:4 70:22	124:12 130:21	quantum 32:14	76:25 128:8	100:14 102:15
105:4	<b>pull</b> 74:5 82:21	75:7	rated 77:2 87:24	115:1,11 119:21
proposing 10:1	89:17,22 90:1,4	quarter 38:23	rating 103:19	122:23 127:25
65:6	121:17	question 43:20	118:17,18	122.23 127.23
proposition	<b>pulling</b> 36:11	44:22 45:4,23	reach 69:4,5	rearticulate 77:20
109:16	<b>pulls</b> 74:6	44:22 45:4,23	reached 12:24	
	puns 74:0 punch 134:5	48:25 51:9,17		reason 30:20 34:7 86:3
proprietary 78:20	-	48:25 51:9,17	reaching 121:17	
125:25	purchase 18:10	· · · · · · · · · · · · · · · · · · ·	reaction 60:16	rebate 18:14
prosper 95:17	20:5 126:12	66:4 71:20 83:7 83:11 05:6	read 12:5,10	rebates 18:13
protect 67:22	purchased 105:2	83:11 95:6	112:20 123:18	118:12
protection 126:16	purchasing 68:13	104:13 109:5,25	readily 78:21	rebranding 117:5
prototype 74:25	<b>purpose</b> 11:23	113:6 115:22	106:10	rec 20:3
130:22	58:10 59:20	119:2 124:6	ready 49:5 86:21	receive 75:1
<b>prototyping</b> 27:10	61:17 74:18	questions 3:19	87:2 89:19,25	received 32:4
33:16 45:14	79:20	40:3 62:15 80:7	90:1,5 101:24	recession 13:2,3
provide 10:3	purposes 21:4,5	127:19	128:24	recipients 32:4
11:18,19 17:23	100:8	quick 2:10 76:2	real 12:12 59:20	reclaimed 21:1
28:4 43:5 84:19	<b>pursue</b> 82:25 83:9	88:9 107:7	81:12 88:9	recognition
97:25 99:24	<b>push</b> 89:17,18	114:7 126:23	100:6	132:22 134:17
128:20 134:4,6	pushed 55:24	quicker 24:15	reality 98:16 99:1	recognize 5:25
provider 85:23	pushing 21:5	quickly 2:11 4:6	99:16 116:5	123:10 132:24
providers 65:7	89:19	11:5 45:15 54:5	117:8 120:4	recognized 14:16
provides 22:18	<b>put</b> 29:9 40:10	56:11	realize 16:20	recommended
47:1 103:19	45:1 53:17 70:1	quite 9:21 18:11	19:13 37:11	25:2
providing 9:9	73:8 80:8 86:15	21:9 59:25	133:8	record 71:3
27:11 28:19	88:19 89:9	98:15 130:12	realized 24:14	123:24 124:1
55:12 71:12	101:4 102:2,4	131:7,8 132:11	38:10	135:6
78:6 134:13	106:11 116:2	quote 95:8	realizes 123:1	recoup 18:25
proving 28:8	122:1,7	quoted 109:8	really 10:12 11:8	29:13
113:16	<b>puts</b> 7:3 116:11	<b>Q&amp;A</b> 60:16	16:3 17:17	recovery 124:20
proximity 31:5	<b>putting</b> 25:4 56:2		19:18 20:4,12	recreate 35:14
public 18:21	72:24 116:6,12	R	22:11,12 25:17	recruit 93:17
28:18 43:3	117:6 123:7	<b>R</b> 2:1	26:11 27:19	recurring 44:17
47:10 50:19	130:13 133:9	race 63:19	28:7,8 31:17,20	recycling 21:18
53:11 64:1,23	134:17	radiant 33:3	32:11,12 34:1	redevelop 120:9
65:12 67:21	<b>PV</b> 75:7 104:2	rains 38:14	35:19 42:12,17	redeveloping
68:2,9,10 70:4,6	128:24 129:7	raise 45:6 54:3	42:21 44:13	120:15
70:17 79:11,16		62:2 131:23	45:23 46:23	redevelopment
79:20,25 87:18	Q	range 9:5 13:17	48:13 54:2 55:1	23:2 68:23

Γ				
92:25 120:11	relatively 13:19	63:21	resource 3:11	revisiting 106:3
redirects 119:16	13:19 84:18	represent 60:14	<b>resources</b> 9:7 67:9	revolution 104:24
reduce 9:7 20:17	87:24	representation	80:13 94:3	reward 47:12
25:22 29:2,21	release 68:1	92:6 109:10	99:23 102:21	rewards 47:13
36:24,24 40:25	relevant 86:11	representative	106:14,24	rewriting 123:6
47:21 48:3 56:8	reluctance 58:1	24:8 110:3	108:14 117:8	<b>RFP</b> 19:3
81:16 126:15	rely 56:19	represented 71:1	respected 15:6	<b>RFO</b> 19:2
reducing 68:10	remain 30:8,12	represents 63:8	respectively	<b>Rich</b> 134:4
reduction 65:19	remember 8:21	75:11	109:20	Richard 5:19
reductions 46:24	8:25 9:10,15	requests 128:12	respondents 68:3	Richmond 1:14
65:10	38:12 55:2	require 38:3	responsibilities	11:17 131:22
refined 46:17	62:19 101:16	40:23 64:17	90:15	135:4,10
reflect 37:24	114:14 132:11	80:18 118:5,7	responsibility	<b>rid</b> 105:6
<b>reform</b> 107:10	remodel 129:2	required 89:5	90:21	<b>right</b> 3:6 4:1 5:13
reformulated	remote 94:22	101:17	responsible 5:17	26:13 28:13
126:17	remove 14:25	requirements	5:19 14:18	31:24 34:5
refueling 85:16	36:25 39:17	20:21	24:17	35:10 39:13
regards 6:12	126:17	requires 30:21	responsive 21:23	40:17 41:5 45:5
region 2:18 5:2,7	renamed 110:8	48:14	87:19	47:2 48:4,6
19:23 53:21	renewable 49:11	requiring 24:18	<b>rest</b> 4:18 10:4	49:22 50:8,14
78:1,6,12 117:20	50:25 64:7,10,11	research 4:21	18:13 51:23	53:4.22 54:4,9
120:7	64:13,14,18,22	23:14,25 27:9	59:20 95:20,21	55:23,24 56:2,5
regional 14:20	65:18,21,24 66:2	28:1 29:7,8	95:21 133:18	60:9 63:25 68:9
81:20 106:22	66:16 68:14	32:18 34:11	restate 8:23	74:14 77:11,13
regions 4:24	70:7,23,25 71:6	44:23 73:4	result 69:2,6	77:16 78:4 80:7
10:13 63:15	76:10 80:18	76:16 91:12	results 92:1	87:22 92:23
64:15 88:25	97:1,14 108:16	96:25 97:4,19	<b>resume</b> 14:17	94:11 95:24
100:14	118:20,21	98:6,19 101:2	15:12	96:1 98:14
region's 108:11	121:18	108:5 109:23	retrofit 124:16	100:22 102:9
Registered 135:4	renewables 21:18	111:7 112:7,12	129:11	105:25 107:23
regulate 69:25	30:17 65:14	112:18 113:8	retrofits 81:19	110:2 115:19
regulations 74:4	renovation	128:21	retrofitters	120:18 128:11
regulatory 14:25	103:24 104:7	researched 88:16	129:13	<b>risk</b> 78:2 79:13,15
16:6 57:19	107:12	114:9	retrofitting	<b>risks</b> 29:9
reinforce 102:17	renovations	researchers	107:13	<b>River</b> 111:15
reintroduce 35:21	107:20	130:11	return 79:24	road 14:8 116:17
relabeled 110:8	repair 80:23	resell 129:7	<b>revenue</b> 124:17	Robinson 1:23
related 11:10	repeated 43:15	reservoirs 20:2	124:18 130:1	<b>rocket</b> 15:11,16
43:20 76:17	report 135:5	residence 28:16	reverse 94:15	<b>Rodon</b> 5:24 8:12
82:11 100:17	Reported 1:14	residential 17:25	reversed 66:9	<b>Rodone</b> 4:12 5:14
relates 104:14	reporter 11:16	20:25 25:5 50:8	<b>review</b> 24:22	role 15:25 16:2,3
Relations 15:10	135:1,4	50:14 117:25	28:11 32:5	16:6,8 30:2
relationship 7:10	REPORTING	118:19 126:9	118:2 120:18,19	56:12 64:2
54:23 55:1,2	1:23	127:3	reviews 76:9	67:20,21 108:24
133:22	<b>reports</b> 13:16	residents 39:3	revisions 24:18	109:6
		-		

<b>F</b>				
roles 53:20	53:5,25 54:18	scientists 26:14	90:9 95:20	series 1:5 2:8
roll 67:17	57:21 59:6 60:7	58:15	102:25 106:18	12:16 52:12
rolled 54:5	74:16,17,21,22	Scorecard 107:7	107:3 110:13	54:14 63:20
<b>roof</b> 19:16 30:21	74:22 75:11	130:11	112:17 116:23	serious 9:4 117:17
104:3 122:7	77:5 83:6 90:13	scorecards 5:8	125:14,16	serve 67:21,22
129:7	90:18 91:21,24	screaming 128:4	127:22 133:1,4	68:9 111:3,11
roofs 126:19	92:21 96:21,21	screen 38:4	134:20	service 64:23
rooftops 49:14	96:25 97:22,23	screens 38:3	seed 42:19	65:12 72:25
72:25	<b>Sanders</b> 90:13	Scripps 58:15	seeded 27:22	85:20,23
<b>room</b> 62:10	Santos 132:20	<b>SDSU</b> 27:25	seeding 31:22	services 1:23 9:6
<b>Ross</b> 102:11,11,15	Saratoga 111:18	se 37:21 53:7 55:9	seeing 86:11	10:3 24:14,16
113:12,12	save 24:21 82:23	57:3 98:21	seek 91:6,18	55:12 65:8 75:1
,	122:2 127:1	<b>Sean</b> 4:19 10:6	seeking 73:4	91:8 105:4
round 11:9			0	
<b>RPR</b> 1:14 135:10	saves 127:4	14:7,10 134:14	seeks 111:16	serving 5:15
<b>RPS</b> 64:14 65:2,7	savings 129:16,24	seashells 35:16	seen 23:22 54:19	session 3:18 59:21
65:8,17 118:22	129:25	season 80:9	54:21 56:16,25	132:15
<b>rules</b> 30:23	saw 59:24 120:7	seat 61:15	90:3 92:1	set 49:14 67:21
<b>run</b> 2:10 67:13	133:2	Seattle 22:2 97:23	segment 119:7	69:8,8,11 73:23
runner 97:22	saying 26:14	second 13:10	segue 57:9	101:12 103:19
running 43:17	47:21 51:21	33:13 38:23	segues 115:19	130:15 133:25
runs 100:22	62:5 69:1,4	62:13 66:11	selected 4:25	sets 36:4
<b>R&amp;D</b> 31:13	88:18 94:6	70:3 74:13	28:12 32:5,8	setting 1:6 64:9
100:15,20	116:19	secrets 7:14	60:14	67:10 69:6,8
s	says 75:12	section 99:7	self 37:7 69:24	130:22
S 2-1	<b>SBIR</b> 78:10	sector 4:22 5:22	126:18	settings 126:9,9
<b>S</b> 2:1	SBIR's 101:21	10:24 46:4	self-interested	127:3
Sacramento 22:2	scenario 65:16	49:13 54:25	105:16	seven 30:18 96:15
22:15	scenes 8:16	55:9,25 56:18	sell 18:23 19:1	shadow 126:3
sacrifice 94:2	schedule 15:14	57:11 60:9	semiconductors	shame 3:22
safer 86:1	school 15:9 28:7	74:20 81:15	99:6	share 3:20 59:6
San 2:16 4:17 6:9	35:23 36:10	82:3,6 85:7	seminars 11:25	83:21 92:17
9:3 11:8,9 13:16	108:20 116:4	90:17 120:13,13	133:14	99:9 112:15
14:15,21,22 15:2	124:13	sectors 55:23	Seminole 87:18	119:9 127:7
15:9,25 16:10	schools 35:25	81:14 82:15	88:1	shared 60:19
17:3,6,12 18:4	82:22 83:14	108:15 109:12	semi-conductor	sharing 6:9 51:5
19:24 21:2,13	84:17 87:21	<b>secure</b> 48:11	96:24	102:21
22:2,2,10,10,23	126:10	security 65:11	send 129:6	shark 38:19,20
23:7,10 29:18,23	Schwarzenegger	see 3:13 5:10 8:6	sends 6:21	Shaun 2:23
30:8,13,19 31:4	65:3	15:12 32:24	sense 21:13,25	<b>Shawn</b> 66:25
31:8,13,14 34:10	science 108:1	34:19 37:22	53:12 61:5 63:7	132:24
34:16 36:6,15,21	109:15,18 110:3	38:4 40:2 42:21	113:25 121:5	sheet 61:10 68:24
41:24 42:10	110:5 111:23	50:3 52:1,3	134:14	<b>shelf</b> 78:23 106:10
45:20 50:3,16,19	sciences 111:24	54:15 58:22	sensor 23:18	<b>shop</b> 108:13
52:8,12,13,14,15	111:25	64:4 66:19	sentence 62:4	short 5:5 13:19
52:16,18,19 53:2	scientist 15:11,17	67:16 84:13	serial 28:17	47:6,7,13,16

48:5,6 56:22	sister 52:6	Snaith's 4:20	34:16,23,25	82:15 91:18
61:25	sit 8:5 85:3	socialize 79:12	38:11 41:12	103:3
<b>shortly</b> 6:7 11:21	site 35:20 106:13	socializing 79:15	52:6 55:21,25	specifically 36:9
<b>show</b> 31:21	sites 70:14 127:10	society 105:15	56:7,18 61:16	89:14 92:9
showcase 110:25	sitting 27:5	solar 18:4,10 19:4	84:10 87:13,14	117:23
111:8,12 115:1,9	situation 44:14	19:8,11,16 22:16	92:18 103:1	specifics 51:12
showcases 111:5	58:9 93:19	24:9 26:6 29:22	sorts 101:7	spectrum 37:25
showcasing 22:16	110:20 122:25	30:20 32:1,13,15	sound 39:9 62:7	109:25
showing 13:21	six 22:1 27:1	35:7,14 50:8	<b>sounds</b> 2:4 75:10	<b>speed</b> 38:21 63:18
42:16	30:11 32:11	64:10 70:25	132:3	65:18,25
<b>shown</b> 69:24	43:6 102:19	71:13 72:24	<b>source</b> 74:10	Speedo 38:18
showroom 115:14	115:2	75:8 80:21 81:1	78:12	spend 13:20 88:23
<b>shows</b> 65:13	<b>sixth</b> 7:11	81:3 82:1 88:10	sources 53:14	spent 114:2
sic 18:8 87:8	size 43:23 114:14	88:13,24 89:1	64:7,11,18 97:17	spirited 67:16
Sid 74:24	<b>skew</b> 76:10	97:2 106:6	South 52:15 53:1	spokesperson
side 86:9 89:15	skewed 46:5	107:14 108:4	Southeast 95:9	53:24
sides 10:8	skill 36:4 91:25	109:19,22	southern 22:24	sponsor 2:25
sidewalks 40:8	Skilled 111:21	118:12,21 122:7	111:14	27:16 116:22
126:19	skills 80:18 84:14	128:12,21,22	so-called 117:4	sponsored 2:15
Sidowski 73:23	slash 105:5 128:3	sold 118:5	space 4:24 31:22	sponsors 2:14
sign 62:3	slated 127:9	solicitation 30:10	57:9 58:3 62:22	32:1 45:7
signal 48:1 49:4	slide 39:22 101:4	solid 39:19	91:12 94:25	spot 22:12 23:7
signature 135:11	104:1 133:3	solution 17:24	111:9 115:10,13	<b>spur</b> 71:5
signed 10:6 25:23	slides 13:21 88:10	25:19 125:25	120:7	square 20:19
135:11	slight 117:10	solutions 17:23	spaces 115:13	22:25 115:2
significant 46:24	slightly 46:14	40:5 46:3 47:11	<b>Spain</b> 30:19	<b>SSU</b> 33:6
89:3 107:18	58:5	94:19 125:13,19	Spanish 30:16	stability 118:13
silicon 30:17 35:8	slow 105:10,10	125:23 126:6,12	speak 9:19 61:21	Stadium 127:11
silver 20:19 22:8	slowing 64:8	126:25 127:15	62:17,19 83:13	staff 5:16 7:20
25:12 45:23	small 21:19 27:25	solve 95:13	117:5	86:4 105:7
48:20 118:17	38:22 45:12,19	106:21	speaker 2:15 6:7	114:11
similar 9:2,3	50:15 58:3 60:5	solved 127:15	15:15	stage 27:10 28:5
17:13 18:8	65:7 72:22 73:7	solving 36:17	speakers 53:19	29:12 32:9
28:21 41:24	73:10 77:21	somebody 7:11	speaking 84:7	33:12,15,16
66:16 75:1 91:4	80:11 94:20	12:8 28:17	95:6 125:20	35:22 40:23
91:14	104:23 129:18	79:18 129:2,6	<b>spec</b> 120:8 121:25	63:13 70:20
Simmons 114:25	131:20	somewhat 20:20	122:3	72:11,14 75:14
simple 9:14 18:10	smaller 19:16	25:10 110:4	special 18:7,19	77:19,24 78:13
29:17 69:19	24:13	sonic 39:2,11	27:22 30:24	96:8 98:4
119:23	smallest 50:20	soon 8:7 62:6	44:7 101:13,13	100:12 115:11
Simplified 118:9	smart 108:16	85:22 132:17	132:22 134:16	116:7,8,15,21
simply 46:25	<b>Smith</b> 67:18	sorry 72:2	specialized 99:8	stages 101:18
single 55:10 69:4	smokestack 49:7	sort 16:7 17:23	species 34:5 47:5	stand 7:25 10:10
74:10	<b>SNAITH</b> 56:11	19:20 22:7	<b>specific</b> 28:14,15	79:2 133:1
<b>sir</b> 130:9	83:24 84:3	28:21 33:19	64:17 72:23	standard 47:22

				1 ugo 2 /
68:15	108:7,13 111:19	   stipends 74:7	14:8,11 16:13,14	support 3:8 11:14
Standardized	112:2 114:13,18	stock 107:16,20	16:15 18:2	27:11 50:3,4
118:10	116:2 121:6,19	stood 15:13	21:12,24,25 23:4	73:9,11 78:25
standards 56:24	123:20 124:15	stop 129:4	52:12 54:13	85:17 89:21
64:14,15 67:4	129:14 135:2	story 29:22	63:21 65:12	91:6,18 99:25
82:20 103:20	stated 106:3	strategic 14:19	70:14 108:8	102:6
107:10 118:20	statement 46:20	15:6 33:18	112:20 134:2,15	supported 67:24
standing 3:14,21	127:13	strategies 66:11	stuff 2:12 3:5,11	96:6
62:10,17	states 2:20 10:14	strategy 14:21	38:15 69:22	supporting 26:11
standpoint 30:13	49:5 56:17 57:1	23:6 41:14 45:1	72:17 100:13	52:10 117:19
67:8 93:16 95:3	59:12 64:9,16	91:1	116:8 121:1	supportive 42:6
106:16,16	70:6,8,19 72:17	Street 1:23	129:1	97:13
123:11	86:16 130:17	strengthen 63:22	Styrofoam 94:19	supposed 24:12
stands 103:17	statewide 64:13	strengthened	subsidies 89:3	sure 10:25 40:20
start 13:5 16:5	64:14 67:4 73:1	76:22	subsidized 46:5	52:20,25 58:23
21:19 29:12	95:15,15 118:15	strengthening	subsidy 79:20	61:19 75:9
31:23 43:13	state's 64:17	80:9	substantial 29:3	79:21 81:4
54:16 63:4	stating 60:22	stress 6:20	29:25 30:22	119:5
66:18,23 74:3,8	station 103:23	stressing 123:2	substantially 45:9	surface 14:5
75:14 91:11	stations 20:3	strict 57:23	substantive 13:5	126:8
96:23 97:17,25	48:17	strong 5:22 23:11	succeed 6:6 10:21	surfaces 39:17
98:3 102:25	stays 18:23,24	23:12,12 30:2	80:19 98:2	126:20
111:3 120:16	50:1	54:23 55:2	success 63:24 90:4	surprised 128:23
126:2	stem 89:14	83:20 99:13,15	112:5 113:16	surrounded
started 2:3 11:3	stenographic	99:20 111:21	successful 10:14	102:23
11:12 13:5	135.6	stronger 35:17	17:20 19:9	surrounding 60:6
23:25 55:22	stenographically	66:20	33:15,17 48:9	89:14
63:1 89:2	135:4	strongly 73:11	54:7 57:14 70:9	survey 5:8 13:24
starting 8:21 11:8	step 16:16 48:15	structure 39:10	123:24,25	61:9 62:20
53:5 67:2 118:7	60:21 61:21	129:5	suggest 78:14	131:9
state 9:17 16:23	66:5 71:25	structuring 123:2	suggestions 42:7	survive 34:7
18:12,18 20:12	75:25 80:4	struggled 42:3	42:10	suspect 6:3
22:19,20,22 26:1	83:21,25 84:25	STTR's 101:21	Suite 1:23	suspended 125:24
40:21 50:24	92:16 104:5	stuck 85:13	sulfur 20:16 46:11	sustain 81:17
51:2,4 57:2 58:4	112:15	student 31:18	Summit 15:16	sustainability
63:12 66:19,22	stepping 104:19	students 28:3	sun 50:17 121:14	47:16 53:11
67:25 69:17	119:6	32:23,23 76:8	126:1	57:5,10 108:22
70:11,16 73:6,8	steps 58:3	108:1	sunlight 38:4	119:23
73:22 74:4 76:5	stick 39:17	student's 28:2	126:13,13	sustainable 16:18
77:13 78:1,5	sticks 39:19 57:17	Studied 39:9	super 2:5 5:13	17:23 19:24
79:1,9 81:10	sticky 51:19,25	studies 12:21	50:11 105:20	24:5,20 46:5
85:18,20 86:21	stimulates 56:18	15:10 21:11	superior 9:9	53:8 103:20
95:12,21 97:8,13	stimulus 6:13 8:6	57:16	Supervisory	105:12 106:25
97:14 98:6	10:5 13:2 42:24	study 11:7,13	126:24	108:17,17,23
101:3 106:16	47:1	12:14 13:16	supplied 4:4	111:17 112:21
<u> </u>				

120:11,12	tail 87:17	targets 65:2	48:21,22 50:10	57:25 58:16
Sustainlane 96:11	take 6:1 7:3,20	tariff 49:11 50:24	52:10 55:6 64:4	84:14 87:20
Sweden 31:10	11:1 16:10 19:7	118:20 128:13	64:12 65:8	97:13 107:11,12
47:24	21:2 25:8,22	task 25:21 91:18	70:14 73:16	110:4
sweet 22:12 23:7	29:20 32:11	93:3,14,23	75:2 78:19,23	test 127:10
swiect 22:12 25:7	42:21 58:3,21	tax 18:14 29:21	79:6 81:1,9	testify 102:16
Symic 125:23	63:2 86:5,25	49:21,23,24 50:2	85:21 86:10	testing 98:1,7
126:6,12,18,25	88:9 101:10,17	72:22 116:22	91:8 92:10 96:3	<b>Texas</b> 9:18 22:1
120:0,12,18,25	105:13 106:13	taxes 18:21 29:24	96:14 97:25	81:9,10 91:15
	110:13 116:7	72:16		96:13,15
symposium 1:5			98:1,18,23 99:4 99:7 101:24	<i>'</i>
8:5,20,24 9:11	120:24,25 129:3	teach 31:20		thank 2:13 5:24
12:16 13:10	129:4,7	teaching 9:16,17	102:23,24 108:3	5:24 6:8 7:6,18
14:9 36:5 42:13	taken 59:2 73:17	team 28:11 32:6,7	108:4,15 111:2	8:8,10 15:20,21
52:12 54:14	takes 32:15 46:18	32:7,22 91:3,4	111:18 112:2,12	41:7 51:6,7 52:4
63:20 70:5	48:7 76:11	team's 91:6	115:1 119:14,15	58:18,20 59:5
104:1 107:15	105:18	tech 27:5 36:10	telecom 23:12	62:3 63:4 65:22
132:14 133:25	talk 2:16 16:13,14	76:3 85:22	27:18	66:24 67:14
symposiums 2:8	16:18,21,22,25	93:11 101:22	telecommunicat	69:13 70:2
11:10,13,18,23	17:3 33:23	102:20 112:2	23:17 125:21	71:18 72:19
12:21 59:23	34:21 35:9	technical 28:10	telephone 6:12	73:20 74:12
131:25 132:7,8	40:14 41:22	32:6,7 81:10	tell 10:6 13:23	77:17 80:1,14
132:13	42:3 52:22 63:5	82:10 84:16	25:25 62:3	87:5 88:5 89:11
synergies 94:7	83:4 97:11	technically 37:22	128:14	90:7 95:4 100:2
system 18:22,22	100:23 113:17	44:9	<b>Tellam</b> 66:6,6	101:8 102:9
18:25 19:16	130:24	technicians 82:1,2	73:21,21 76:2	103:9 105:23
21:8 24:9,11,13	talked 37:7 41:17	82:12 126:22	77:2 80:8	107:5,22 110:17
37:8,18 47:12,25	43:9 51:14	technique 106:12	telling 95:19	114:5,21 117:1
49:4 76:11	98:25 116:24	technologies	temperature 37:9	121:7,8 122:10
97:21 103:19	122:24	27:12 46:23	37:10	124:4,25 125:3
104:2 124:13	talking 4:10,17	63:7,17 65:1,19	temporary 48:12	127:20 130:7
130:16	5:21 10:7 31:25	65:25 70:25	tend 18:16	131:1,8,13,14,14
systems 2:14	32:10 34:23	73:9,18 74:20	tends 38:7	131:22 132:20
37:17 46:6	38:22 54:16	80:17 86:16	tens 122:8	133:24
49:13 67:1	72:9 77:6,21	90:19 94:2	term 13:19,20	thanked 7:17
97:21 110:6,7	79:14 87:3,4	96:10,18,25 99:3	30:11 47:6,7,7,8	thankful 15:22
114:17 133:2,7	124:24	99:18 102:12	47:11,12,13,15	thanks 56:11
, , , , , , , , , , , , , , , , , , , ,	tall 7:25	103:5 106:11	47:16 48:11	130:6,25 134:20
Т	taller 8:1	108:9 113:12	116:10	thing 11:15 15:13
table 36:22 37:3	tangible 73:14	115:9	termite 37:7,19	17:17 25:17
44:11 54:5	tap 53:14	technology 6:19	terms 19:7 20:15	32:19 33:5,23,24
58:23 83:18	tape 39:13,13	7:4,5 10:21	21:14 24:1,19,21	43:1 45:10
124:1	tapestry 43:8	21:19 23:18	25:18 36:16	55:21 66:12,16
tables 11:10	target 25:16 64:19	26:5 27:3,13	38:20 43:11	66:17 76:12
tabulated 62:25	82:15 122:20	28:19 31:11	47:3 48:9,22	84:19 88:12,17
tactical 88:9,14	targeted 72:24	32:10,13 48:3,20	51:15 56:2,17	93:2 101:18
	1 aigulu 12.27	52.10,15 70.5,20	51.15 50.2,17	75.2 101.10
	I	I	l	l

				Ų
116:8,20 121:12	72:12,16 74:8	75:4 82:11	25:8 26:5 34:9	87:6,22 88:23
122:23 123:11	75:19 77:3,5,15	122:1 127:12,14	told 27:23 93:1	89:5,16,18,21
124:9 125:2	80:7,13 84:3,4,6	131:25	<b>Tom</b> 3:6 51:8	90:5 111:4
128:11,13 129:8	84:17 88:3,21	threshold 58:12	133:11,11	124:23
things 3:9,19 7:8	89:9 92:2,25	tie 79:17	tomorrow 41:22	transcriber 11:17
9:10 10:19,20	95:16 98:9,15	tied 73:13 79:11	87:3,4 133:19	transcript 11:18
11:11 12:23	99:24 100:4,10	107:1	ton 26:9 27:6	12:5,10 132:6
13:6,18 16:24	100:16,18,24	time 1:12 2:21	tool 68:15	135:5
21:6,17 26:7	101:11,14 102:7	4:11 5:5 6:18,19	tools 82:20 93:3	transcripts 11:22
32:10 34:1 41:9	101:11,14 102:7	10:7,18,18 11:14	93:16	132:14
41:10 42:4	105:20 107:9	20:10,12 24:10	<b>Toothpaste</b> 126:1	transfer 27:5
48:19 54:5,15,21	110:11 112:5,10	29:6 31:19 32:3	top 8:16 20:1 26:2	transform 55:10
55:20 59:13	113:14,17,19,22	40:15 44:3,6,16	34:6,6 126:22	transformation
60:25 61:3 66:8	113:22 114:1	44:23,24 46:21	132:4	55:8
66:11 77:7 83:3	115:16 116:7,9	48:6,8 52:11	<b>topic</b> 96:4 116:9	transition 46:18
83:5 88:8 93:15	· · · · ·	53:9 59:6 61:25	125:8	48:7 63:18
101:7 105:21	116:20,20	62:14 69:13		
107:2 109:24	119:19,21 120:20 121:11		topics 2:11 total 29:24 71:8	translate 112:7,11
		73:10 83:2	74:2	transportation
116:24 117:14	122:23 124:9,21	87:10 91:16		120:6
121:20 122:5,6	129:8,12,12	99:22 100:6	totally 69:7 123:6	trash 20:15
123:3 127:16	133:24 134:9,11	105:9 106:5,5	tough 44:14	treat 21:3
131:19 133:2,5	134:16	119:7 131:4	tour 3:3	treatment 20:2
<b>think</b> 2:2 5:6,10	thinking 35:19	134:20	tourist 17:13	trek 27:17,19,21
6:2,8,18 7:2,21	47:13,13	times 24:8,13 43:9	<b>towers</b> 21:6	27:22
7:23 8:1,13,20	third 8:20 66:16	77:10 127:4	town 84:8 87:18	tremendous 49:18
9:14 10:11	74:15	132:10 133:8	105:2	tremendously
11:12,21 12:24	thought 17:15	<b>titanium</b> 41:3	track 123:24	14:7 108:24
13:23,25 14:1,15	30:23 38:17	125:24 126:4,5	124:1	109:6
20:18 23:10,20	41:11 45:1	<b>Title</b> 20:20 25:3	tracks 82:11	trends 64:12
26:4,5,9,17,20	55:17 60:11	25:10,10,10,11	trade 46:10,15	87:20
30:10,14 34:3	84:1 87:9	<b>TI02</b> 125:25 126:1	47:6,8,8,25 49:3	tricky 109:17
36:2 39:1,7 40:1	106:12 117:5	<b>TNB</b> 59:8 131:17	49:6 51:10 53:4	tried 127:11
40:9 41:5 42:12	134:10	Tnbgroup.com	Trade-Technical	trip 3:1
42:13 43:1,2,6,7	thoughts 44:15	131:17	81:21	trouble 101:25
46:23 47:18,19	51:5 62:23 76:2	today 3:3 4:7 5:21	traditional 43:10	troubled 78:18
48:3,8,17,17,21	83:22 92:15,17	7:9,12 9:22	81:18 82:7	trucks 20:15
48:24 50:16	109:12 110:18	12:12 15:4,18	117:21	true 27:14 52:25
51:13,25 54:10	112:16	16:12 25:10	train 38:24 39:1,6	63:19 111:19
54:12,19,21 55:2	thousand 105:3	26:12 34:6 35:7	39:11 88:4	112:12 135:5
56:1,25 57:4,8	thousands 122:8,8	35:18 43:5	trained 80:20	truly 40:16 66:15
57:14 58:11	three 4:10 17:2	54:19 55:20	87:15 88:22	try 8:18,23 39:17
60:23 61:3 66:7	21:20 32:4,8	58:17 59:19	126:23	45:10,10 53:20
66:17,17 67:2	44:12 45:8	79:9 86:11,11	training 80:17,25	58:5 69:15
68:6 69:16,18,25	48:17 50:18,20	90:15 134:13	82:17 83:1,6,9	86:16 89:17
71:15,21,23	59:13 74:17	today's 2:15 3:18	83:10,16,19 86:9	92:19 113:8
	l			

125:16 128:5,6	90:4 93:18 94:1	undeveloped	65:18 70:24	134:9
128:15,19	94:2,10 105:21	114:16,17	78:22 82:16,19	vary 117:21
trying 3:23 5:4	122:22 128:16	Unfortunately	85:5 94:8,14,15	vast 67:24 107:15
16:19 22:15	types 46:2 115:8	68:5	106:9,22,23	VC 29:10 33:18
35:14 39:24	115:14 117:13	unification 103:6	107:3 118:8	44:25 75:13
45:13 46:3	typical 32:15	uniform 118:15	121:3,12 126:18	VC's 99:21
54:24 85:25	typically 29:10	uninformed 87:10	useful 23:4	Vegas 29:23
95:12 100:8.24	typing 131:24	unintended 67:6	user 26:20	<b>vehicle</b> 27:9 53:22
112:21 113:23	<b>T-Bone</b> 86:12	unique 34:24	uses 68:20 71:10	54:1 93:6 118:5
113:24 114:4	95:8,10	unit 110:12	<b>USF</b> 76:4	vehicles 78:23,25
tubes 33:5		<b>United</b> 2:19 49:5	usual 6:2	80:24 85:14,17
tunnel 39:2	U	59:12 86:16	usually 129:24	86:23 118:8
turbines 82:9	UCC 129:5	units 109:17	utilities 65:13	venture 2:6 12:18
turf 53:15	<b>UCF</b> 1:13 4:3 7:6	universities 27:3	106:22 118:22	12:25 13:6
<b>turn 2:</b> 11 4:12	7:6,9 12:17	27:5,24 36:8	130:18	21:15,16 28:21
5:14 23:16	15:23 72:2 75:2	university 2:6	utility 32:2 49:11	47:15 72:2 75:3
24:13 35:16	76:4 77:14	7:11 9:17,18	50:18,19,23	91:9 92:10
60:8 63:1	84:15 87:19,25	15:8 41:20 42:1	72:22,25 96:19	96:22 97:16
121:20 131:5,10	91:8 92:10 96:3	58:15 74:21	106:24	98:4 102:5
131:12	97:24 98:16,23	76:7,14 83:12	<b>UV</b> 126:16,17	108:3
turned 24:11	100:21 101:2,9	95:9 96:15 97:5	<b>U.S</b> 64:13 70:19	venues 60:17
turns 105:17,22	107:25 109:2,9	97:6 100:15,17	82:4 96:8 118:5	verbiage 117:10
<b>TV</b> 3:13,15,22	109:11 110:10	108:8,18,20		Verinium 23:24
5:12 11:19	110:20 113:19	127:16,17	V	version 14:11
100:6	116:4 133:20	unknown 26:8	Valencia 30:19	89:12
tweak 5:7 123:8	UCF's 84:10	33:9 42:25	87:18 88:1	versus 46:12,17
two 12:3,13,18	UCSD 26:24,24	45:22	Valentine 91:17	47:6,8 72:14
13:20 14:3,4	27:23	untapped 36:16	<b>valid</b> 135:11	100:20 122:2
16:2 18:5 19:18	<b>UF</b> 76:4	50:16	validate 32:24	vertical 126:8,20
21:1,11,20,20	<b>ultra</b> 46:11	upgrade 124:12	validated 27:14	verticals 93:21
25:20 28:1 34:1	underserved	upheaval 105:1	Valley 112:2	vested 32:2
35:19,25 45:8	120:10	upload 132:17	valuable 2:23	vetted 54:6
53:17 55:1	understand 63:6	ups 16:5 21:20	value 9:8,13,23	video 11:19 12:6
59:23 62:12	68:14 75:9	96:23 97:17,22	10:2 11:24 12:4	84:8 132:14
77:3 81:5 86:15	80:17 120:23	102:25 111:3	18:24 29:14	videos 12:10
91:10 97:19	127:17	urban 103:23	43:3 91:3,5	132:17
116:7,21 125:9	understanding	Urbana-Champ	98:22 99:12	view 47:3 87:19
127:24 128:11	24:24	97:6	102:16,20,22,25	viewpoint 118:18
130:8,9	understands	usage 71:3 78:24	103:4,7 106:8,9	village 84:10
two-day 32:6 36:7	68:17 106:20	<b>USD</b> 28:1 32:22	109:16 132:13	virtual 19:25
type 2:18 18:9	understood 106:2	32:22	variety 48:23	viruses 126:7
25:16 27:9	underwrite 66:15	<b>use</b> 9:6,8 20:16	86:25 102:24	vision 7:19,20
31:11 39:20	129:21,22	24:4 32:16 40:2	103:10	63:25
41:1 43:4 46:19	underwriting	41:4 46:8,12	various 4:23	visit 56:12 99:21
83:16 89:25	129:23	53:23,25 56:6	101:18 104:17	131:18
	ļ			

	·			
visiting 133:19,20	washes 38:14	website 11:21	42:25 44:13	win 78:9
visualize 115:5	Washington	108:13 110:13	45:4,5,11,12,18	wind 64:11 81:5
vital 64:2 67:3	108:7 130:13	130:3,14,23	46:2,20 47:24	82:3,6,9,12,12
<b>voice</b> 53:21	wasn't 27:18 77:8	131:17 132:2,18	48:4 50:13,14	88:8 96:17
von 16:25 26:25	waste 20:2 21:2	133:4	51:14,21,23 52:3	windows 19:13
27:8,17 28:15	21:18,18 33:2	week 7:13 12:2	53:22 54:11,24	windsmith 82:13
30:10 31:15	36:24	49:10 53:18	56:8 57:21 58:3	winners 63:19
voted 72:21	wasted 114:1	77:14	58:7,10,14,21,25	75:1
106:23	watch 12:5,9	weighing 76:9	64:3 66:12	<b>win/win</b> 17:24
	watcher 39:6	welcome 2:10 8:5	72:10 77:21	Wisconsin 81:6
. W	water 20:2 21:1,2	85:2 90:15	81:4 84:7,19	wisely 106:11
<b>Waco</b> 81:10	21:3,18 24:21	125:8	86:11 88:12	wiser 107:3
wait 106:17	38:20 39:9 50:9	wells 32:14 75:7	89:19 98:24	wish 66:4 74:13
waiting 106:15	106:15 119:20	went 11:5 38:1	100:6 116:13	87:5 113:10
walk 3:20 117:18	121:14 127:1	39:1,19 85:18,19	117:17 120:17	118:15
walking 117:18	Wattles 2:24	85:22 115:24	127:23 128:1,1,2	wonderful 2:22
wall 38:14,16	66:25,25 89:12	128:25 130:4	128:7,11 129:8	3:1,17 7:10,16
want 4:6 6:8 7:6	132:24	West 82:10	130:3,6,11,22	120:2
7:18 8:12 10:25	wave 75:7	western 133:7	131:5 132:5,17	woodwork 128:15
12:4 18:10	way 9:14 13:1	we'll 6:15 11:20	133:19,19	word 11:6 31:11
27:23,24 28:25	18:20 20:11,16	13:20,22 14:10	we've 4:8,10	100:11,11
35:19 36:19	24:15 25:13	24:8 32:5 36:8	10:11 12:24	words 9:23 73:16
44:1 50:3,4,8	26:16 33:7 35:5	41:13,21 58:5	18:18 19:25	work 8:12 34:18
53:3 54:16	39:5,21 42:22	62:4,9,11,20,24	22:4,23 23:5,21	37:10 38:9
57:22 58:2,3	43:2 47:14 48:2	90:9 103:13	24:17 27:15	41:12,23 46:3
60:15 61:11,14	49:20 55:6,8	113:8 125:9	28:3 29:13,14	49:2 52:24
61:18,19 69:25	57:7,20 64:24	129:12 133:25	30:16 32:4 34:9	73:23 74:1
79:12,16,17,21	66:8,16 68:11,11	134:3,20	49:17,19 54:19	81:12 84:9,14
84:12 88:22	81:16 106:8,25	we're 2:2,9 4:1,15	54:21 61:24	87:15 88:4,22
92:21 94:11,25	111:2.7 120:4	5:21 6:18 7:23	83:11 87:9,10	89:13 95:3
101:11 106:18	121:23 123:9	10:1 11:9 12:10	90:3 92:6 98:25	101:20 109:21
107:3 122:20	125:16	12:16 14:13	102:2 104:25	111:4 119:19
124:11 131:22	ways 5:6 6:3,5,18	15:18 16:24	110:15,21	123:22 130:5
132:4,12,20,23	10:19,19 23:3	17:8 19:2,3,4,17	116:24 117:8	132:1,5,21
wanted 13:4	45:11,13 54:15	19:17,22 20:12	119:5 121:2	workers 80:21
17:11 82:11	62:12 68:16	20:17,23,24 21:4	124:24 128:21	Workforce
88:6 100:7	119:16 120:23	23:5,9 24:23	130:3	111:21
112:23,24	120:24 121:5	26:11,13 29:1	white 62:21 67:11	working 8:17 31:1
wanting 3:15	wealth 34:12 63:9	30:15 31:9,17,19	whittle 13:16	32:22 44:6 52:3
wants 95:17,19	92:4	31:24,25 33:12	wide 49:6	108:20 109:23
128:3	weaning 89:6	33:12,13,17	wild 34:14	110:5,6 112:19
warm 37:18	wearing 85:2	34:17,23,25	Williams 2:21	116:13,18
warming 25:19	Weaver 133:15	35:19,22 36:2,4	132:24	128:18
58:9,9 64:8	Web 55:21 96:23	36:7 38:22	willing 20:7 24:4	works 14:25
81:16	webmaster 55:19	41:15 42:19,20	72:7 121:24	49:25 96:18
	l			

<b></b>				
112:17 126:12	57:5,6 69:24	1,000 36:20	<b>2,419</b> 111:22	3.8 34:4
128:14	85:6 87:3 89:7	<b>1,700</b> 111:23	2,700 111:24,24	<b>30</b> 65:6 118:1
world 10:4 15:15	116:17 125:22	10 4:25 5:1,1,3	<b>2.0</b> 55:21 96:23	<b>30</b> 05:0 118:1 <b>32</b> 34:12 49:12
34:12 37:15,17	127:14	10:12 12:19	<b>20</b> 18:12 19:15	<b>32 34 1 2 49 1 2 32801</b> 1:24
42:20,23 49:19	Yeehaw 120:3	13:17 30:21	20:9,22 35:9,9	<b>33</b> 65:4
,		34:23 42:20	35:11 48:18	<b>340</b> 30:17
63:15 86:15	yesterday 10:6	ſ	50:12 55:16	
88:25 95:19	86:12 95:9	59:22 60:12,14		35 125:21
127:6	127:23 130:4	60:19 61:10	57:6 64:6,21	350 58:10
worm 105:17,22	<b>York</b> 65:5 97:23	62:13 64:3 85:5	65:5 67:11	4
worried 100:5	104:8 108:18,19	87:3 98:24	69:19 111:10	449:15
worst 4:25 65:15	111:18,19,22	117:16 118:6	20,000 22:25	<b>4,000</b> 34:13
124:17	112:2	119:1 125:1	<b>2000</b> 70:11 85:12	400 58:12
worth 27:7 105:17	Young 9:1	129:13 131:3	<b>2001</b> 85:12 96:14	
worthy 73:10	<b>Youth</b> 4:20	134:18	2002 96:10	<b>40</b> 7 1:24 <b>435</b> 6780 1:24
wouldn't 7:7,7	Z	100 36:20 118:1	2005 91:21 96:10	<b>425-6789</b> 1:24
104:19 119:6		121:13	111:22	<b>43</b> 29:25
write 62:22	Zacco 1:23 11:17	<b>100K</b> 78:9	<b>2006</b> 71:8 97:7	<b>430</b> 1:23
written 5:9 61:20	132:1	<b>105</b> 37:9	<b>2007</b> 17:10 64:20	<b>450</b> 58:12
132:6,14	Zambia 37:15	11 32:4 96:9	90:12 91:20	<b>48,000</b> 114:15
wrote 35:3 67:18	<b>zero</b> 46:19 73:15	<b>11:45</b> 1:12 134:21	96:12 118:7	5
v	73:19 106:6	<b>114</b> 71:10 72:4	<b>2008</b> 18:3,3 32:3	<b>5</b> 90:10 92:6 118:6
X	<b>zone</b> 22:21	<b>12</b> 35:23	<b>2009</b> 1:11 15:16	<b>5,000</b> 20:19
<b>X</b> 51:22 56:7	<b>zoo</b> 34:10,14,18	<b>134</b> 135:5	52:2 135:7	
Y	35:1 36:12,21	<b>140,000</b> 44:8	2010 65:5	<b>50</b> 25:24 29:2
	zoologists 37:4	<b>15</b> 57:5 58:21	<b>2012</b> 70:18	118:18
<b>year</b> 17:2 25:21	<b>Z-A-C-C-O</b> 132:2	65:16 70:18	2013 65:6	<b>500</b> 15:7
26:24 28:5	• • • •	<b>150</b> 40:15	<b>2020</b> 25:5,23 26:4	<b>52</b> 96:9
30:11 33:1,12,13	\$	<b>150,000</b> 75:15	64:7,22 65:4,14	<b>55</b> 44:17 78:9
35:24 43:16	\$10,000 18:15	16 91:22	69:19	6
44:10 45:5,21	<b>\$100</b> 70:12	170 53:9	2030 25:6	<b>6</b> 12:9 65:15 96:2
49:3,15 51:12,12	<b>\$140,000</b> 31:22	<b>178</b> 21:15	<b>2050</b> 25:24 26:8	<b>60</b> 44:17 71:3
51:15,15 52:2,2	<b>\$25,000</b> 18:12	<b>18</b> 1:11 30:11,12	29:2 46:21	60's 35:7
53:16 64:19	\$4 122:6	<b>1900</b> 26:20	107:17	<b>605</b> 1:23
71:10 75:15	\$5,000 118:2	<b>1969</b> 9:22	<b>24</b> 19:25 20:20	<b>675</b> 111:25
91:10,20 98:24	\$50,000 74:24	<b>1970</b> 9:22	25:3,10,10,11,11	0/5111.25
121:13	105:18 118:3	<b>1970's</b> 34:1	<b>25</b> 55:16	7
years 6:24 10:12	<b>\$500,000</b> 75:15	<b>1990</b> 25:22,23,25	<b>250</b> 39:18	7 12:8 103:13,14
10:12 12:19	\$55,000 43:24	29:3	<b>27</b> 65:13	70 68:2
14:3,4 19:2 20:9	44:23	1990's 35:4	27,000 114:15	70K 44:17
25:20 27:1	\$8,000 18:13	<b>1997</b> 24:2	<b>28</b> 19:25	70's 35:8
30:18,22 32:11	1	<b>1998</b> 70:18		<b>76</b> 30:10
34:4,23 42:20	1 49:22 72:23	<b>1999</b> 85:12	3	7 <b>8</b> 96:8
43:6 44:12	80:10 91:20		3 64:25 75:23	
48:18 50:12		2	<b>3RD</b> 1:6	8
51.00 55.16.16	121.18			
51:23 55:16,16	121:18 1st 49:17	<b>2</b> 71:20 111:7	3.570:16	<b>8</b> 107:24 109:4,13

# Orange Country Cleantech Symposium

8:00 1:12 8022 47:19		
<b>9</b> <b>9</b> 6:11 64:22 110:24 112:9		
9th 135:7 9:35 59:2 9:50 59:2		
<b>900-14</b> 24:2 <b>98</b> 30:12		