

## **Transcript**

### **Solar Energy Development Programmatic EIS Scoping Meeting held in El Centro CA, July 10, 2008**

This Acrobat PDF file contains the transcript of the above referenced Solar Energy Development Programmatic EIS public scoping meeting. If you are interested in reading the scoping comments provided by a specific person or organization at this meeting, you may use Acrobat's search tool to locate the commenter's name/organization within the transcript.

UNITED STATES DEPARTMENT OF ENERGY AND BUREAU  
OF LAND MANAGEMENT

+ + + + +

SOLAR ENERGY DEVELOPMENT  
PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT  
(PEIS)  
PUBLIC SCOPING MEETING

+ + + + +

THURSDAY  
JULY 10, 2008

6:30 P.M.

+ + + + +

IMPERIAL COUNTY ADMINISTRATION CENTER  
940 WEST MAIN STREET, SUITE 211  
EL CENTRO, CA 92243

Facilitator:

Halil Avci, Ph.D.  
Argonne National Laboratory

Panel Members:

Steven J. Borchard  
Bureau of Land Management

Linda J. Resseguie  
Bureau of Land Management

Brad Ring  
U.S. Department of Energy

Lynn Billman  
National Renewable Energy Laboratory

Also Present for ANL:

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Ron Kolpa  
John W. Hayse, Ph.D.

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Adjourn

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1 P-R-O-C-E-E-D-I-N-G-S

2 (6:30 p.m.)

3 MR. AVCI: I have 6:30 according to  
4 my watch, and this meeting is now officially  
5 convened. On behalf of the U.S. Department of  
6 Energy and the Bureau of Land Management, we  
7 thank you for attending this evening's  
8 meeting.

9 This is what is called a public  
10 scoping meeting for a Programmatic  
11 Environmental Impact Statement that the U.S.  
12 Department of Energy and the Bureau of Land  
13 Management are preparing.

14 The Programmatic Environmental  
15 Impact Statement, PEIS for short, that is the  
16 subject of this evening's meeting is on solar  
17 energy development in six Western states --  
18 Arizona, California, Colorado, New Mexico,  
19 Nevada, and Utah.

20 My name is Halil Avci. I'm with  
21 Argonne National Laboratory, the organization  
22 that is supporting the DOE and BLM to prepare

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1 this PEIS.

2 At this time, I have a few  
3 requests. First, if you have not done so  
4 already, please turn the sound off on your  
5 cell phones and pagers.

6 If for any reason you have to leave  
7 the room during the meeting, please use the  
8 back door that you came into the room.

9 As you may have noticed, I have  
10 already used several acronyms -- DOE for U.S.  
11 Department of Energy, BLM for Bureau of Land  
12 Management, and PEIS for Programmatic  
13 Environmental Impact Statement.

14 This being a federal program,  
15 invariably there will be others throughout the  
16 evening. We will try to explain them as we go  
17 along. However, if at any time there is one  
18 that you do not understand, please raise your  
19 hand and we'll be happy to explain it.

20 I also would like everyone to know  
21 that this meeting is being transcribed and an  
22 official document will be prepared for the

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1 record. That means everything that is said  
2 this evening will be recorded and placed into  
3 the official document. The document will be  
4 placed on the project website and will be  
5 available for viewing and downloading by the  
6 public.

7 Our court reporter this evening is  
8 Peggy Schuerger sitting in the corner over  
9 here. She is with Neal R. Gross & Company out  
10 of Washington, D.C.

11 The main purpose of the meeting  
12 this evening is for DOE and BLM to obtain your  
13 input on the scope of the PEIS. However,  
14 before we begin the comment phase of the  
15 meeting, we have a series of short  
16 presentations to give you some background  
17 information and explain the proposed  
18 activities.

19 After the presentations, there will  
20 be a short question-and-answer period. The  
21 comment phase will begin immediately after the  
22 question-and-answer period.

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1 I am estimating, based on our  
2 meetings of similar nature in the past, I'm  
3 estimating that the comment phase of the  
4 meeting will begin at about 7:30 p.m.

5 Now, as our first speaker, I'd like  
6 to introduce Mr. Steve Borchard. Steve is  
7 BLM's California Desert District Manager.

8 MR. BORCHARD: Thanks for coming to  
9 this public scoping meeting about the solar  
10 energy development on BLM-administered lands.

11 As part of our ongoing efforts to increase  
12 domestic energy production and ensure greater  
13 energy security, the Department of Energy and  
14 the Bureau of Land Management have initiated a  
15 joint solar energy development Programmatic  
16 Environmental Impact Statement or PEIS.

17 Our agencies believe that preparing  
18 this Programmatic EIS is a critical step in  
19 evaluating the extent to which public lands  
20 with high solar energy potential may be able  
21 to help meet the nation's energy needs for  
22 renewable energy.

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1           The BLM already has over 125 -- in  
2 fact, I think we're at about 130 applications  
3 right now in the pipeline for solar rights of  
4 way, and the energy potential of these sites  
5 alone is enormous. Seventy billion watts of  
6 electricity are enough to power 20 million  
7 average American homes on a sustained basis.

8           The joint PEIS that will be  
9 overseen by the Department of Energy's Argonne  
10 National Laboratory will assist the  
11 environmental, social, and economic impacts  
12 associated with solar energy development on  
13 BLM-managed public lands in six Western states  
14 -- Arizona, California, Colorado, Nevada, New  
15 Mexico, and Utah.

16           The joint PEIS will also evaluate a  
17 number of alternative management strategies to  
18 determine which presents the best management  
19 approach for the agencies to adopt in terms of  
20 mitigating potential impacts and facilitating  
21 solar energy development while carrying out  
22 their respective missions.

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1 I'd also like to welcome the  
2 representatives from the Department of Energy  
3 and from the National Labs that are helping us  
4 with this meeting. We appreciate your  
5 interest in the project, your comments, and  
6 your continued involvement as we proceed  
7 through our analysis.

8 MR. AVCI: Thank you, Steve. The  
9 next individual I'm going to introduce is Brad  
10 Ring. Brad is a Project Manager in DOE's  
11 Golden office in the Solar Energy Technologies  
12 Program.

13 I also would like to just mention  
14 that as we go along with these presentations,  
15 we will be showing viewgraphs on either side  
16 of the room so you can follow the  
17 presentations.

18 Brad.

19 MR. RING: Thank you. And I would  
20 also like to thank you for coming tonight and  
21 participating in this process. I'd like to  
22 take just a few minutes and go over all the

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1 DOE's goals and the expectations from this  
2 Programmatic Environmental Impact Statement.

3 DOE's goals are to add energy  
4 supply from diverse sources, and specifically  
5 to make greater use of renewable sources.  
6 Accomplishing this would improve the quality  
7 of the environment by reducing greenhouse gas  
8 emissions and environmental impacts.

9 Another key component of these  
10 goals is improved national security. Energy  
11 that's supplied -- that is secure,  
12 sustainable, and emission-free domestic energy  
13 is imperative for our country.

14 The Solar Program in 2008 had a  
15 budget of approximately \$170 million. The  
16 majority of this was spent -- 152- -- for  
17 research and development. It was broken out  
18 between photovoltaics and concentrating solar  
19 power. A hundred and twenty-six million went  
20 for photovoltaics and 26 million for  
21 concentrating solar power.

22 The market transformation funds was

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1 spent for -- or is being spent for this  
2 Programmatic EIS and the Solar America  
3 Initiative for photovoltaic and water heating  
4 activities, activities with the 25 Solar  
5 America cities, development of codes and  
6 standards, Solar America showcases, solar  
7 specific training, and the Solar Decathlon.

8 The DOE's Solar Program supports  
9 what we consider two technologies. We've  
10 broken that out into photovoltaics, which most  
11 people are aware of, and that's the direct  
12 conversion of solar radiation into  
13 electricity. The other is concentrating solar  
14 power, where the sun's radiation is used to  
15 heat a fluid which is then used to drive, for  
16 example, a steam cycle turbine most notably or  
17 usually. There are some other operations that  
18 can take place separate from steam, but that's  
19 the main one right now.

20 Regarding the photovoltaics and the  
21 concentrating solar power, DOE has been  
22 focusing on developing these technologies to

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1 the point where they are cost-competitive with  
2 utility markets. We do this by evaluating  
3 these specific technologies, a term used  
4 "levelized cost of energy" or the cost of the  
5 system -- the total system -- the  
6 construction, permanence, operation, and  
7 maintenance versus what actual energy they  
8 produce.

9 These technologies have continued  
10 to improve and -- for these renewable sources  
11 and it's driving increased use by individuals  
12 for rooftop applications, businesses, and also  
13 now for utility- scale development activities.

14 Next slide, please. The DOE is co-  
15 leading preparation of this Programmatic EIS  
16 really focusing on utility-scale solar  
17 projects, and those are projects that can  
18 provide power to tens of thousands of homes.  
19 But for that size of solar project, it  
20 requires intense solar radiation and the six  
21 states included in this Programmatic EIS have  
22 been identified as the best solar resources.

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1           Resources or land mass required is  
2 approximately five acres for each megawatt.  
3 This is an approximation but, as you can tell,  
4 a 250-megawatt site would need about two  
5 square miles or 1250 acres, and BLM manages  
6 119 million acres of federal land in these six  
7 states.

8           DOE expects the identification of  
9 land that is appropriate for solar deployment,  
10 both from a technical -- technically and  
11 environmentally sound standpoint,  
12 establishment of policies that would apply  
13 these solar energy projects supported by DOE,  
14 best practices, which would include the  
15 identification of important, sensitive, or  
16 unique habitats in the vicinity of the  
17 proposed projects and, to the extent feasible,  
18 design the projects to minimize these impacts.

19           Besides the Programmatic EIS, each  
20 specific project would have its own  
21 environmental analysis which would ensure  
22 responsible energy generation.

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1           Additionally, we are looking to  
2           have more accurate modeling to predict the  
3           potential for solar energy development, to  
4           provide power but also the creation of jobs  
5           and mitigation to climate change.

6           That's all I have. Thank you.

7           MR. AVCI: Thank you, Brad. The  
8           next speaker is Linda Resseguie from the BLM's  
9           Washington, D.C. office. She is BLM's Project  
10          Manager for this PEIS.

11          MS. RESSEGUIE: I want to say thank  
12          you for everyone coming tonight to help us  
13          study this important situation with utility-  
14          scale solar energy development.

15          The Bureau of Land Management is an  
16          agency within the Department of the Interior  
17          that manages 258 million surface acres. And  
18          if you look at the viewgraph, you'll see the  
19          distribution of BLM lands across the West.  
20          About 15 million acres of those lands are here  
21          in the State of California.

22          About 46 percent of BLM's lands, or

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1 119 million acres, as Brad mentioned, are  
2 located in the six-state study area, the area  
3 covered by the Programmatic Environmental  
4 Impact Statement. The BLM's multiple-use  
5 mission is to sustain the health and  
6 productivity of public lands for the use and  
7 enjoyment of present and future generations.  
8 The Bureau accomplishes this by managing such  
9 activities as outdoor recreation, livestock  
10 grazing, mineral development, and energy  
11 production, and also by conserving natural,  
12 historical, and cultural resources on the  
13 public lands.

14 Solar energy is just one of many  
15 energy resources now being developed or  
16 considered for public lands.

17 To ensure the best balance of uses  
18 and resources from America's public lands, the  
19 BLM undertakes extensive land use planning  
20 through a collaborative approach with local,  
21 state, and tribal governments, with the  
22 public, and with stakeholder groups. The

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1 result is a set of land use plans that provide  
2 the framework to guide decisions for every  
3 action and approved use on BLM lands. Many of  
4 BLM's existing land use plans, however, do not  
5 specifically address solar energy development.

6 This simply shows the distribution  
7 of BLM lands in the six Western states.

8 On the viewgraph, you will see two  
9 bullets. The first is Executive Order 13212  
10 that requires federal agencies to expedite  
11 their actions as necessary to accelerate the  
12 completion of energy-related projects. And  
13 you'll also see a reference to the Energy  
14 Policy Act of 2005, which requires the BLM to  
15 try to approve at least 10,000 megawatts of  
16 non-hydropower renewable energy on the public  
17 lands by the year 2015.

18 Utility-scale solar energy projects  
19 on public lands are authorized by BLM under  
20 the Federal Land Policy and Management Act.  
21 All activities, including rights of ways for  
22 utility-scale energy development proposed for

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1 public lands must be consistent with the  
2 terms, conditions, and decisions in an  
3 approved land use plan. Before BLM can  
4 approve a solar energy project, BLM must  
5 assess the direct, indirect, and cumulative  
6 impacts of such development and must consider  
7 other resource values, sensitive areas, and  
8 public concerns.

9 In the notice of intent that we  
10 published for this Programmatic EIS on May  
11 29th, BLM announced that it would temporarily  
12 suspend accepting new solar energy development  
13 applications pending completion of the PEIS.  
14 At the same time, we also announced that we  
15 would continue to process over 130 utility-  
16 scale solar energy applications that had been  
17 filed with BLM before May 29th, and Steve made  
18 reference to these applications which include  
19 over a million acres of BLM lands and have the  
20 potential to generate 70 billion watts of  
21 electricity.

22 During the scoping period so far,

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1 we have heard from solar industry  
2 representatives, elected officials, and the  
3 general public, all expressing deep concerns  
4 about BLM's policy decision to not accept new  
5 applications while the PEIS was underway. In  
6 response to the high level of interest in  
7 near-term deployment of solar energy, we  
8 reexamined our "no new application" position  
9 and a few days ago we announced that BLM would  
10 continue to accept and process new solar  
11 applications along with those previously  
12 filed. We made this decision in order to  
13 aggressively address the growing demand for  
14 renewable energy while ensuring appropriate  
15 environmental protections.

16 The solar energy applications, both  
17 existing and those that will be filed while  
18 the PEIS is ongoing, will be processed on a  
19 parallel track with the PEIS.

20 Under BLM's current solar energy  
21 development policy, applications are processed  
22 on a first come/first serve basis each with

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1 its own site-specific NEPA process and each  
2 with its own individual land use plan  
3 amendment.

4 BLM believes that by looking  
5 programmatically at the issues associated with  
6 utility-scale solar energy development, we  
7 will be able to develop a more comprehensive,  
8 consistent, and efficient program approach by  
9 which to address solar energy projects on  
10 public lands. The Programmatic EIS will  
11 identify public lands that are best-suited for  
12 solar energy development, mitigation  
13 strategies and best management practices to  
14 guide future solar energy development, and it  
15 will also look at the need for additional  
16 transmission corridors to facilitate solar  
17 energy development.

18 BLM believes that the Programmatic  
19 EIS will be key in advancing the understanding  
20 about the impacts of solar energy development  
21 and how best to deal with those impacts and  
22 that the resulting decisions will better

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1 foster and support the nation's need for  
2 environmentally sound renewable energy.

3 BLM expects to amend land use plans  
4 in the six-state study area to adopt the solar  
5 energy decisions made as a result of the PEIS.

6 These meetings are an important part of the  
7 BLM planning process as well as the NEPA  
8 process. We did include proposed planning  
9 criteria in our May 29th notice, and we are  
10 asking for your comments either tonight or in  
11 writing on those criteria before July 15th,  
12 the end of the scoping process.

13 Thank you.

14 MR. AVCI: Thank you, Linda. The  
15 next person who's going to speak is Lynn  
16 Billman. Lynn is a Senior Project Leader with  
17 the National Renewable Energy Laboratory, NREL  
18 for short.

19 NREL is providing technical support  
20 to the PEIS with respect to defining the solar  
21 energy resources and technologies.

22 MS. BILLMAN: Thank you, and I also

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1 welcome you and thank you for coming to show  
2 your interest in these projects and the  
3 development on BLM lands.

4 I'm just going to go briefly over a  
5 little background on the solar technologies  
6 that will be considered in the process of this  
7 Programmatic Environmental Impact Statement.

8 You'll see on the slide here three  
9 simple topics that I'd like to cover quickly  
10 with you. We are certainly focusing in this  
11 PEIS on utility-scale, and we are defining  
12 that as about ten megawatts or larger for a  
13 particular project.

14 I'm also going to mention a little  
15 bit about the Geographic Information Systems  
16 that are used at the National Renewable Energy  
17 Laboratory and at Argonne National Laboratory  
18 and others, which have become a very key tool  
19 for fine-tuning examination of the possibility  
20 of projects like solar on statewide or region-  
21 wide areas.

22 And, thirdly, I'll mention a little

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1 bit about some of the key -- one of the key  
2 federal policies that facilitate deployment  
3 and how that plays into the planning process  
4 as well.

5 Next slide. Brad mentioned two  
6 types of technologies that -- he mentioned to  
7 you before photovoltaics that works with the  
8 electrons from the sun or thermal  
9 technologies, concentrated solar thermal, that  
10 work with the thermal energy from the sun.  
11 This slide looks at a little different  
12 distinctions. When you do a solar project,  
13 the economics and the viability of the project  
14 often depend on the dispatchability; that  
15 means how well you can dispatch the  
16 electricity in accordance with what the  
17 utility load needs to be.

18 And solar technologies that have  
19 some sort of storage capability with them or  
20 sometimes an auxiliary power source,  
21 hybridized type systems, are called  
22 dispatchable, and we have three examples here.

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1 I'll just mention them briefly and then talk  
2 about each one in a little more detail.

3 The upper left picture is a  
4 parabolic trough photograph. You may be  
5 familiar with that from the Kramer Junction  
6 area of California. That project has been  
7 commercial for about 15 years with very good  
8 performance.

9 The power tower is the third  
10 picture over. There is an operating system in  
11 Spain. There were a couple systems in  
12 California that have been discontinued at this  
13 point, but there is renewed interest in that  
14 technology.

15 And the third one that is -- we  
16 consider dispatchable is actually the fifth  
17 picture, the middle one on the right, and  
18 that's called a linear fresnel reflector. And  
19 that particular technology is relatively new.

20 It uses flat mirrors, which are less  
21 expensive, focusing the sunlight onto a long  
22 tube that actually carries steam in the tube.

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1       And the light passes through some fresnel  
2 lenses in between the mirror and the tubes and  
3 that concentrates the sunlight.

4               The other types of solar that we'll  
5 be looking at in this study are those that  
6 typically are not done with storage. They're  
7 non-dispatchable. And the first one -- let's  
8 see -- the picture is the fourth one over.  
9 It's       called       dish/engine       technology,  
10 dish/stirling engine technology. Those are  
11 more modular systems and they are not yet  
12 commercial. However, there is some commercial  
13 interest in those already as well.

14               Concentrating PV is shown in the  
15 second picture at the top. That's one of the  
16 several types of concentrating PV.

17               And then flat-plate PV is down on  
18 the lower right and that's -- certainly most  
19 people have seen those types of fields before.

20               I'll talk first of all about the  
21 concentrating dispatchable systems. The  
22 parabolic troughs, you may be familiar with

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1 the technology. It generally uses a  
2 parabolic-shaped mirror in a long set of these  
3 mirrors with a pipe down the center that  
4 carries an oil base or a fluid that can be  
5 heated, and then that hot fluid goes into the  
6 generating plant that flashes steam and  
7 generates electricity.

8 The central receiver uses a molten  
9 salt at the top, in that bright white area,  
10 and has, you know, all of that array of  
11 mirrors focusing on the central point. Those  
12 are intended to be up to 250 megawatts for  
13 peaking in bulk power. As I say, there's only  
14 one operating system right now in Spain;  
15 however, there is interest in all of these and  
16 that's why we're including them in this study.

17 The next slide shows you a little  
18 bit about why we wanted to mention  
19 dispatchability to you. The red line is a  
20 typical usage curve or hourly load for a  
21 utility where you begin using electricity at  
22 6:00 in the morning and it stays at a high

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1 level of usage from noon through, you know,  
2 the middle of the evening and doesn't taper  
3 off until, you know, well into the dark hours.

4           And the solar resource, of course,  
5 peters out at sunset. So that -- the green --  
6 that's the yellow piece in the back. The  
7 green square shows you how you can extend the  
8 usefulness of the concentrating solar plants  
9 or the photovoltaic plants with using thermal  
10 storage or, you know, some other kind of  
11 storage, but thermal's the one that's being  
12 looked at right now.

13           Okay. On the next slide, some of  
14 the non-dispatchable concentrating  
15 technologies. As I say, the dish/sterling on  
16 the left there is about a 25-kilowatt unit.  
17 However, you can put something on the order of  
18 400 of these into an array and come up with a  
19 ten-megawatt system.

20           The photograph on the right is a  
21 similar configuration of mirrors but, at the  
22 center, there's not -- oh, I should explain --

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1 on the dish/stirling, the heat from the  
2 sunlight heats a fluid in the stirling engine  
3 which drives a piston and that piston moves  
4 back and forth and that's where the -- how the  
5 electricity is generated.

6 In the picture on the right,  
7 instead of a stirling engine at the center,  
8 there is a high-efficiency photovoltaic cell  
9 and, by concentrating the sunlight, you can  
10 use less of the photovoltaic material, which  
11 lowers the cost.

12 So, again, this is pre-commercial  
13 but they're being tested at Sandia and they  
14 are about ready to go commercial with the  
15 first plans.

16 On the next slide, there's some  
17 photos of some other -- at least two other  
18 photovoltaic concentrator technologies that  
19 are entering the marketplace right now.

20 All of these concentrating systems  
21 that I've mentioned focus the sunlight to  
22 about 500 suns, about 500 times the energy of

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1 unconcentrated sunlight.

2           Okay. The next slide shows you  
3 some of the output from the Geographic  
4 Information Systems that we use and these have  
5 the capability to look at, oh, you know, a  
6 hundred or more different kinds of data and  
7 show something like solar insolation that is  
8 only on BLM lands, only greater than five  
9 kilowatt hours per square meter per day, and  
10 you can manipulate that very finely for  
11 various criteria.

12           The solar radiation data is based  
13 on satellite data, modeling, public databases,  
14 a wide variety of sources.

15           I mention the title at the top,  
16 "Direct Normal Insolation," is the type of  
17 sunlight that is useful for concentrating  
18 systems. It's what you have here in the  
19 Southwest where it's very, very direct all  
20 day, infrequently stopped by sunlight, and the  
21 direct normal is always measured at 90 degrees  
22 to the surface, and these concentrating

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1 systems always track the sun so that it's  
2 always getting it -- the maximum amount from  
3 the 90-degree sunlight.

4 Okay. In the next slide, the only non-  
5 concentrating system that we're looking at, at  
6 this point, are the photovoltaic flat-plate  
7 systems. They come in varieties that are fixed --  
8 you set them on the mounds and that's it. They  
9 have single-axis trackers. They actually have  
10 double-axis trackers on some of the concentrators  
11 as well. And these are two photos of a couple of  
12 commercial -- or utility-scale systems. One, the  
13 largest in the U.S., is at Nellis Air Force Base  
14 in Nevada at 14 megawatts. That's a single-axis  
15 tracking. There is also about an eight-megawatt  
16 system in Colorado that was installed I believe  
17 last year.

18 Anything else I should say there? I  
19 don't think so.

20 Okay. The next slide shows a similar  
21 map to the other one except this is global, and  
22 for flat-plate photovoltaics, they can generate

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1 electricity from any type of sunlight, whether  
2 it's coming down directly or whether it's coming  
3 reflected from clouds, reflected from rocks or  
4 dirt. And so they can be used a little more  
5 broadly.

6 Let's see. Let's go to the next slide.

7 The cost of these systems, obviously, are greatly  
8 impacted by state and federal incentives, and the  
9 one thing I was going to mention this evening was  
10 the federal investment tax credit. With that  
11 particular incentive, which has been around a good  
12 number of years, persons investing in solar  
13 systems can take a 30 percent tax credit and, on a  
14 large system, that is a significant -- that's a  
15 significant savings and a very large benefit to  
16 the industry.

17 This investment tax credit is set to  
18 continue through the end of 2008. There have been  
19 several attempts so far in Congress to extend it  
20 beyond 2008 but no resolution on that at this  
21 point in time.

22 If you show the next slide, I wanted to

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1 make the relation to why this was important to a  
2 Programmatic Environmental Impact Statement. One  
3 of the things that is studied in this process is  
4 the socioeconomic impacts of proposed systems.  
5 And to look at socioeconomic impacts, you have to  
6 have some sense or some way to project what might  
7 happen in terms of solar developments over the  
8 next 20 years. That's the time frame for the  
9 Environmental Impact Statement.

10 And we use at NREL, National Renewable  
11 Energy Lab, we use a quite sophisticated modeling  
12 tool with hundreds of different factors that we  
13 can look at, and one of those factors is what  
14 happens with the investment tax credit. And if  
15 it's not extended, there is, according to the way  
16 we're looking at it, a probability of only getting  
17 maybe six to seven gigawatts -- that's a thousand  
18 megawatts -- by the year 2030. That's normally  
19 the end of the time period for the Programmatic  
20 Environmental Impact Statement.

21 If you go to the next slide, if you  
22 make the assumption that the investment tax credit

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1 continues for another eight years, even though it  
2 declines 30 percent to a lower number, that still  
3 gives a significant boost to the solar  
4 developments in the near-term and you can reach a  
5 level of something like 40 gigawatts by the time  
6 you go out 20 years. So it's important to  
7 consider these economic impacts as well.

8 Okay. I think that is all that I had  
9 to share with you and, again, thank you for  
10 coming.

11 MR. AVCI: Thank you, Lynn. Now I will  
12 give you an overview of the NEPA process to sort  
13 of put tonight's meeting in context for the  
14 purpose of tonight's meeting.

15 I'm sure many of you have seen or have  
16 participated in NEPA activities. NEPA stands for  
17 National Environmental Policy Act. That results  
18 in an EIS.

19 Very briefly, the EIS -- any EIS, for  
20 that matter, is a document that provides  
21 comprehensive analyses of environmental and  
22 socioeconomic impacts of federal agencies'

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1 proposed action and a reasonable range of  
2 alternatives to their proposed action.

3 It describes the purpose and need, the  
4 environmental impacts, and the potential  
5 mitigation measures, as well as providing  
6 cumulative impacts and the commitment of  
7 resources and also describes how the public  
8 concerns were taken into account.

9 Now, federal agencies, whenever they  
10 propose a major federal action that can  
11 potentially have a significant impact on the  
12 quality of the human environment have to prepare  
13 an EIS; that is mainly the reason why the two  
14 agencies are preparing this Programmatic  
15 Environmental Impact Statement.

16 Now, depending on the proposed action,  
17 the EIS could be very site-specific. For example,  
18 if the proposed action involves building a  
19 specific project at a specific location, then the  
20 impacts are basically specific for that area.

21  
22 If, on the other hand, if the proposed

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1 action is a general programmatic action, then the  
2 document is not specific to a particular location  
3 but provides general broad analyses of the  
4 proposed technologies or the impacts associated  
5 with that.

6 In this case, the two agencies -- DOE  
7 and BLM -- have determined that since their  
8 proposed actions -- and I will get into shortly  
9 what their proposed actions exactly are -- are  
10 more programmatic in nature, the document also  
11 will be a Programmatic Environmental Impact  
12 Statement. So as you can see, the document then  
13 will provide basically generic impacts of actions  
14 from solar energy technologies and identify  
15 potentially applicable mitigation measures.

16 Now, we are here for a public scoping  
17 meeting. Where does this fit into the NEPA  
18 process? When the federal agencies believe that  
19 the action they're proposing requires an EIS, they  
20 go through what's called an internal scoping  
21 process. They come together internally and  
22 evaluate what the proposed action is, what the

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1 reasonable range of alternatives are, and what  
2 impacts they are likely to analyze in the EIS.  
3 And then they put out what's called a notice of  
4 intent, NOI, in the Federal Register.

5 At this point, the process goes into  
6 what's called public scoping phase, and that  
7 public scoping phase is generally around 45 days.

8 In this particular case, the NOI was published on  
9 May 29th and the public scoping period runs  
10 through July 15th. In this time frame, the  
11 agencies basically are looking for public input on  
12 their proposed action, alternatives that are being  
13 considered, significant issues that are being  
14 analyzed, any possible mitigation measures, and  
15 any available data that public or other agencies  
16 may have that would be pertinent to the analyses  
17 that they're going to be making.

18 It's only after this scoping period  
19 that decisions are basically crystallized in terms  
20 of what the proposed action and alternatives are  
21 and what impacts are going to be analyzed in the  
22 EIS.

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1           Let's go to the next slide. Initially,  
2 when the notice of intent was published, these  
3 were the alternatives that were to be analyzed in  
4 the EIS -- in this Programmatic EIS. First one is  
5 the no action alternative. That's actually a  
6 requirement on -- by NEPA, that no action  
7 alternative involves what would happen basically  
8 if the proposed action did not take place. It  
9 doesn't necessarily mean do nothing because, in  
10 this case, if the proposed action didn't take  
11 place, then BLM would still continue, for example,  
12 to evaluate the applications on a case-by-case  
13 basis. That would not be this overall arching  
14 program that both DOE and BLM are planning to  
15 establish. It would be in isolation.

16           The proposed action, as described  
17 earlier, is basically developing programs,  
18 policies, and mitigation strategies related to  
19 solar energy development in the six-state study  
20 area. And for BLM, it also involves amending  
21 individual land use plans to adopt the new  
22 program.

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1           Now, up until last week, there was a  
2 third alternative that was going to be analyzed in  
3 the PEIS. However, as Linda Resseguie explained  
4 earlier, because of the decision that BLM made  
5 concerning lifting the moratorium on new  
6 applications, that third alternative is no longer  
7 relevant.

8           At this time, BLM has not decided if  
9 there will be a third alternative and, if so, what  
10 that third alternative will be. And that's, as I  
11 explained in the previous slide, is very  
12 consistent with the intent of NEPA, that agencies  
13 have to basically take into account the input that  
14 they receive during the public scoping phase  
15 before they make their final decisions.

16           Next slide, please. Now, the public  
17 will have the opportunity to provide input in  
18 actually three stages of the process. One is  
19 during this public scoping period, which ends on  
20 July 15th.

21           There will be another opportunity after  
22 the Draft EIS is published. It will again have a

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1 public comment period and there will be a series  
2 of meetings, such as this one, to obtain input,  
3 comments on the Draft EIS at that time. And the  
4 Draft EIS is currently scheduled to be published  
5 some time in the spring of 2009.

6 There will be another opportunity for  
7 public to provide comments after the publication  
8 of the Final EIS, which is currently scheduled for  
9 spring of 2010.

10 Now, I mentioned earlier the project  
11 website. The address of the website, as you can  
12 see, is [solareis.anl.gov](http://solareis.anl.gov). I know a lot of you  
13 have visited the website because there were quite  
14 a few people who actually registered for this  
15 meeting on the site. If you have not done so  
16 already, I would strongly urge you to visit the  
17 website. It has a wealth of information about the  
18 EIS process, about documents that are being  
19 gathered to prepare the EIS, including the  
20 presentations that are being made tonight and the  
21 posters that you see around the room. They are  
22 all on the website. It has an online comment form

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1 for providing comments on the EIS. And it also  
2 has an e-mail notification system that, by  
3 providing your e-mail, you receive notification on  
4 events that are important to the progress of this  
5 project. For example, if you had your e-mail  
6 address within the e-mail list, you received an e-  
7 mail last week when the decision was made to lift  
8 the moratorium.

9 Let me go to the next slide.  
10 Basically, a quick review of three ways of  
11 providing public comments during this scoping  
12 period -- at this scoping meeting. We will get  
13 into that very shortly. We will receive comments.

14 You can provide comments through the website or  
15 by regular mail. And all the comments will be  
16 accepted through July 15, 2008.

17 Here's how you can submit written  
18 comments. Certainly, on the project website, as  
19 indicated before, but you could also, if you have  
20 any written comments, you can give it to any one  
21 of us -- myself or anybody at the head table or at  
22 the registration desk before you leave tonight --

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1 or you can mail it to the address shown on the  
2 slide.

3 Now, as I said at the beginning, before  
4 we get into the public comment phase of tonight's  
5 meeting, we're going to have a brief question-and-  
6 answer period.

7 During this question-and-answer period,  
8 we have set up this microphone for both questions  
9 and also later for receiving comments. I ask that  
10 anybody who has questions for anybody at the  
11 podium come up to the microphone, state your  
12 question, you can either wait here until you  
13 receive the response or you can sit down and let  
14 the next person come up.

15 I would like to ask that when you ask  
16 your questions, please limit them to matters  
17 related to the presentations that were made  
18 earlier this evening and keep your questions to  
19 more like clarifying type of questions.

20 If it has any relation to comments, I  
21 strongly suggest that you hold those questions to  
22 the comment phase and put them into a comment

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1       rather than a question.

2                       So, with that, I'll open it to the  
3 floor and see if anybody has any questions. Come  
4 up. And when you come up, please state your name  
5 as well.

6                       MS. JOHNSON: My name is Diane Johnson  
7 and I'm just confused. Will this Programmatic EIS  
8 replace individual EISs or are EISs not part of  
9 the process now? I'm --

10                      MS. RESSEGUIE: Each project that is  
11 going to go forward now will have its own  
12 environmental impact statement. So it's required  
13 before the project can be approved and the right-  
14 of-way can be granted. So all of the projects  
15 that are in the queue and that will be coming into  
16 the queue, so to speak, will have their own  
17 Environmental Impact Statement.

18                      In the future, when the Programmatic  
19 Environmental Impact Statement is completed, site-  
20 specific NEPA analysis will be tiered to this  
21 document, and so we expect that the environmental  
22 work will be streamlined and will be more

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1 efficient because it will have the benefit of this  
2 over-arching analysis already contained in the  
3 Programmatic.

4 MS. JOHNSON: Okay. Thank you.

5 MR. AVCI: Anybody else? Please, come  
6 up.

7 MS. CHARPIED: My name is Donna  
8 Charpied. The first -- I have two questions. The  
9 first question is you talked about the liquid -  
10 the trough type of solar-generating electricity  
11 plants, and really what I understand -- it's kind  
12 of like you have lip-lock. I think there's not  
13 been enough transparency because we know that  
14 there -- not everybody -- it seems that there's  
15 liquid -- it's molten salt in there, and don't  
16 they have to come in like quarterly with moon  
17 suits to your community and clean out all that  
18 hazardous materials? So I've read and -- I was at  
19 a RETI Conference in April and this was talked  
20 about and I thought that was really bizarre. It  
21 just seems to be a really big secret. And I wish,  
22 Linda, when you talked about it, you wouldn't call

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1 it just a liquid 'cause it makes it sound so  
2 innocuous when it is really, you know, pretty bad.

3 And the other question I do have is you  
4 talked about a project in Colorado, so why are we  
5 targeting the desert Southwest if you can make  
6 solar electricity in Colorado?

7 MS. RESSEGUIE: I think the first  
8 question needs to go to Lynn, the technology  
9 question, and she's the one that mentioned the --  
10 I don't remember -- no, the one in Colorado. I  
11 was going to try to -- anyway, let me just address  
12 the Colorado -- Colorado is part of the six-state  
13 study area and BLM has one solar application in  
14 that state. So the companies who filed these  
15 applications -- I'm not sure you can say have  
16 targeted -- but they have concentrated on the  
17 desert Southwest.

18 MS. CHARPIED: "Targets" is a good  
19 word.

20 MS. RESSEGUIE: Okay. They have  
21 concentrated on the desert Southwest, and that's  
22 where most of our applications are, but we do have

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1 one PV application in Colorado. But Lynn's going  
2 to answer the technology application.

3 MS. BILLMAN: The point I'd like to  
4 leave you with is that there are a wide variety of  
5 solar technologies that are being developed and  
6 different technologies use different materials,  
7 different amounts of water, for example. That's  
8 come up at meetings before. I don't know of any  
9 that require moon suits and quarterly cleaning,  
10 even for molten salt applications, so I'd be happy  
11 to talk with you a little bit more about that  
12 afterwards where, you know, your source of  
13 information is coming from.

14 MS. CHARPIED: Sure. Sure.

15 MS. BILLMAN: Okay.

16 MS. CHARPIED: And the last thing,  
17 about the tiering of the Programmatic EIR with the  
18 individual EISs, don't you think that kind of  
19 infects the public participation because the  
20 Programmatic -- they're going to say, We spent so  
21 much money on this and it's been vetted already,  
22 so these things are already pretty much taken care

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1 of? It just seems to me that that that's an  
2 infection of the process and it shouldn't be done  
3 so piecemealed.

4 MS. RESSEGUIE: I'm going to take that  
5 as a question, not a comment, but it kind of  
6 sounded like a comment to me. But one of the  
7 things I did want to stress is that when we do  
8 site-specific environmental analysis for these  
9 projects, they'll follow a similar format where  
10 there will be a published notice of intent, there  
11 will be a public scoping period. Whether or not  
12 the public chooses to participate in that, I don't  
13 know, but each project will have its own -- it  
14 will follow the same format.

15 MS. CHARPIED: Thank you.

16 MR. AVCI: Yes, please.

17 MR. HORN: Good evening. My name is  
18 Andy Horn. I have a couple of questions for Lynn,  
19 I think, on a couple of the slides you showed.  
20 One was having to do with the projections for  
21 applications and installations of solar with and  
22 without the tax credit. And it looked in both of

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1 those scenarios like after the 20-year period,  
2 that there was a tremendous spike in the  
3 installation and the production of solar energy.  
4 I just wondered what the -- I mean, are you just  
5 assuming that by that time, all the bugs will have  
6 been worked out and we're going to have a -- could  
7 you explain a little bit or elaborate on the  
8 criteria that were used to develop that or project  
9 that spike?

10 MS. BILLMAN: Yes. I don't know in  
11 great detail, but I do know that when the analysts  
12 prepare that, they take a look at making some  
13 guesses about one of the things that's the most  
14 difficult to project, and that is the availability  
15 of, you know, other energy sources that can  
16 compete, you know, more cost effectively with  
17 concentrating solar-type systems.

18 One of the things that affects that is  
19 what's gonna happen with carbon taxes.

20 MR. HORN: Sure. So in 20 years, you  
21 know, we're probably going to be more competitive  
22 with economy scale --

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1 MS. BILLMAN: Right.

2 MR. HORN: -- and carbon  
3 competitiveness and everything else.

4 MS. BILLMAN: Right. And if you'd like  
5 more details on that, I certainly know the right  
6 person to put you in touch with.

7 MR. HORN: Well, I would.

8 MS. BILLMAN: And I'd be happy to take  
9 your card or your name afterwards.

10 MR. HORN: All right. I will give you  
11 one. The second question had to do with the  
12 dispatchability of solar technologies, and you  
13 talk about the PV being non-dispatchable,  
14 basically, and the -- some of the trough and the  
15 power towers being more dispatchable. And I've  
16 never seen solar trough characterized as, you  
17 know, pure dispatchable. I think the salt, the  
18 toxic salt technology, certainly has more --  
19 because they store that in a tank and then  
20 recirculate it through the steam generators, you  
21 know, in the shoulder hours. But trough -- steam  
22 turbines, you know, they're just taking isopentane

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1 or whatever it is or whatever -- I've just never  
2 seen it characterized that way as a pure  
3 dispatchable resource the way you had on that  
4 chart there. I just --

5 MS. BILLMAN: Well, you know, I think  
6 they categorized it that way because it is easier  
7 to hook it in with a tank system for one of those  
8 heat exchangers. Because it's not molten salt  
9 that runs through the pipes. The molten salt's  
10 used in a tank.

11 MR. HORN: No. I understand that. I  
12 understand that.

13 MS. BILLMAN: Right.

14 MR. HORN: But, you know, I just -- I  
15 think you're right. I think probably with any  
16 kind of a binary system like that, where you're  
17 taking a liquid and then heating steam, there is  
18 an opportunity to store heat and then --

19 MS. BILLMAN: Right.

20 MR. HORN: -- and then generate  
21 electricity. But I just had never seen it  
22 characterized that way.

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1 MS. BILLMAN: Yes. There's more of the  
2 opportunity compared to something like PV, which  
3 is harder to store.

4 MR. HORN: Certainly. All right. You  
5 can give me some information on that criteria on  
6 the -- on the projections on the installation.

7 MS. BILLMAN: Right.

8 MR. HORN: I'd appreciate that.

9 MS. BILLMAN: Yes. I certainly will.  
10 Thank you.

11 MR. HORN: Okay. Thank you.

12 MR. CHARPIED: The first thing I want  
13 to say is at least four times we were thanked for  
14 coming here by you guys -- I appreciate that --  
15 and I also appreciate you adding this extra  
16 scoping meeting.

17 My question is about the financing, and  
18 I want to refer to jojoba because that's what I do  
19 and am involved for 25 years. When we first  
20 started, there was a seven-to-one tax incentive.  
21 Jojoba is strategic material. We were going to  
22 get off our needs to foreign countries by using it

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1 as a biodiesel high-speed machine, all this, so  
2 all these millions and millions of dollars, all  
3 these thousands and thousands of acres were  
4 planted with jojoba -- Desert Center, 6,000 acres  
5 abandoned; Arizona, 20. I mean, literally all  
6 this stuff went to hell. The only reason people  
7 did it was to get that tax money, and I'm really  
8 concerned that the large scale that this is being  
9 proposed at is just encouraging people and what  
10 are we going to do -- what are you guys going to  
11 do to make sure that this isn't a big, you know,  
12 land grab and they get all the money and we don't  
13 have any -- we're not energy-independent in 20  
14 years?

15 What kind of guarantee do you have that  
16 we're gonna get something for all this taxpayer  
17 dough?

18 THE REPORTER: Could you give your  
19 name, please?

20 MR. CHARPIED: Oh, I'm sorry. My name  
21 is Larry Charpied. So if there's an answer to  
22 that, I'd be really happy to know.

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1 MS. RESSEGUIE: Well, what my answer is  
2 -- would you come back and state that in the form  
3 of a comment.

4 MR. CHARPIED: I will.

5 MS. RESSEGUIE: Okay.

6 MR. CHARPIED: I will.

7 MS. RESSEGUIE: Thank you.

8 MR. AVCI: We had one other question  
9 back there. Come up, please.

10 MS. LEE: I'm Vanessa Lee and I am a  
11 student over at Holtville High School. I have a  
12 question referring to what plans or programs do  
13 you have for us students to be aware educationally  
14 at high school level about positive and negative  
15 effects of projects in our valley?

16 MS. RESSEGUIE: BLM does have  
17 educational materials on their energy projects  
18 because I have seen some of the handbooks and  
19 whatever. And if you give me your contact  
20 information, I will see that you get that.

21 What I am uncertain about is whether  
22 those educational materials include solar. I

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1 looked at the brochures and I think it's actually  
2 sort of like a textbook. But let me see if I can  
3 find the information for you and Lynn's got a  
4 thought, too.

5 MS. BILLMAN: I can get you the website  
6 from the Department of Energy which has extensive  
7 materials on all of the renewable energy, energy-  
8 efficiency technologies, including solar, at  
9 various educational levels. Now, those would not  
10 be specific to your valley, but it would tell you  
11 about the technologies.

12 And I would just encourage you to hop  
13 onto that Solar EIS website and just follow it  
14 along because I don't care if you're in high  
15 school or not; you're gonna follow it and you're  
16 gonna learn a lot about how the process works and  
17 that is where you'll find out more specifically  
18 how it might affect your locale. So get involved.

19 MS. LEE: Well, see, because the thing  
20 is is that Holtville High School students have  
21 actually done a program over at the Salton Sea  
22 with just saltation with the water over there

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1 through solar energy. And we were wondering if  
2 there were any other programs out there that we  
3 could possibly use down here for as much solar  
4 power as we can.

5 MS. BILLMAN: Yes. Let me get you some  
6 website information and then you and your teachers  
7 also can get involved in more activities. So come  
8 -- we'll work on it after.

9 MS. LEE: Yes. Thank you.

10 MR. AVCI: Okay. One more question  
11 before we go to comment period, please.

12 MR. TRAFECANTY: Hi. I'm Denis  
13 Trafecanty. I was wondering on these utility-  
14 scale systems that you're contemplating, ten  
15 megabytes and larger, and I know this is just the  
16 initial Programmatic EIS, but in the six Western  
17 states that you're talking about, there's a lot of  
18 state and national parks, preserves.,  
19 conservancies, national refuges, national forests,  
20 monuments, etc., and also private lands that are  
21 designated by the local authorities as no growth.  
22 And I heard you touch on transmission, but are

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1 you gonna give any consideration in this initial  
2 EIS to the fact that there's so many of these and,  
3 if you're gonna build these systems, it's gonna  
4 require transmission, most likely, and how are you  
5 gonna get them through all these or around all  
6 these so they're effective in going to  
7 metropolitan areas?

8 MS. RESSEGUIE: Let me explain as best  
9 I can. You may be familiar with the Programmatic  
10 Environmental Impact Statement that's going on  
11 right now for the utility corridors, the Westwide  
12 Utility Corridors, and that was an effort to  
13 identify necessary transmission and other corridor  
14 needs across the entire West, and it did look at a  
15 variety of needs and energy resources and it  
16 includes I believe Forest Service lands and BLM  
17 lands and -- more lands than just BLM lands.

18 What we have decided to do with the  
19 Programmatic is take a second look at the need for  
20 corridors because we were not certain that solar -  
21 - we knew enough about solar when we started that  
22 project about where developers would be interested

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1 in it to have identified corridors on BLM lands  
2 that might be necessary to facilitate solar energy  
3 development.

4 So at this point, the PEIS is limited  
5 in that we are just looking at BLM lands and the  
6 need to possibly amend our land use plans to  
7 provide for transmission corridors to facilitate  
8 specifically solar energy development. So at this  
9 point, we're not expanding that beyond BLM lands,  
10 although we've had some comments on that.

11 MR. TRAVECANTY: Thank you.

12 MR. BORCHARD: I can elaborate on that  
13 a little bit. The state is carrying out a study  
14 right now -- I think the title of it is the  
15 Renewable Energy Transmission Initiative, or RETI,  
16 and the state is looking at and evaluating the  
17 capability of the current transmission system and  
18 evaluating that compared to not only solar  
19 projected development but also I believe a wind  
20 and geothermal, so certainly our study will take  
21 advantage of analyses and data that's been  
22 prepared and analyzed by the state's RETI study

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1 that's ongoing right now.

2 MR. AVCI: Okay. Here's how we will  
3 proceed with the comment phase of this meeting.  
4 Some of you registered online before you came  
5 here. Others registered at the door as you came  
6 in. When you registered, you indicated whether  
7 you wanted to speak tonight or not. I have the  
8 names of those individuals who indicated that they  
9 would like to speak and provide oral comments. I  
10 will call those individuals to the podium to make  
11 their presentations in the order in which their  
12 registrations were received.

13 After everyone who registered to speak  
14 has had a chance to speak, I will ask if there is  
15 anybody who had not registered but now would like  
16 to make comments and they will be able to come up  
17 to the podium and make their comments also.

18 Everybody who comes up to the podium to  
19 provide comments will have three minutes total to  
20 present his or her comments. If you are one of  
21 those speakers at the podium and you are making  
22 your presentations, when you reach the two-and-a-

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1 half-minute mark, I will show you my yellow card.

2 This will be an indication that you have 30  
3 seconds to wrap up your comments. When you reach  
4 the three-minute mark, you will get the red card.

5 That will mean that your time is up and that you  
6 should immediately conclude your remarks. If you  
7 are not able to finish your remarks in three  
8 minutes and you need additional time, you will  
9 have an opportunity to come back to the podium and  
10 to add to your previous comments at the end of the  
11 meeting after everyone has had a chance to speak.

12 There will be no sharing of time or  
13 passing of leftover time to another speaker.

14 Now, is everyone clear on how the  
15 comment phase of this meeting will be conducted?  
16 Are there any questions about that?

17 (No response.)

18 Okay. Then we will begin the formal  
19 comment phase of the meeting. When you come up to  
20 the podium, please get close to the microphone and  
21 speak directly into the microphone so that the  
22 court reporter can record your comments.

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1           Before you begin your comments, please  
2 state your name and affiliation.

3           The first speaker tonight will be Denis  
4 Trafecanty. He will be followed by Helena  
5 Quintana and Preston Arrow-weed.

6           MR. TRAFECANTY: Hello. I'm Denis  
7 Trafecanty. I'm with -- I co-founded the Protect  
8 Our Communities Fund, which is at the San Diego  
9 Foundation in San Diego. And we're very concerned  
10 about this Programmatic EIS. We're concerned --  
11 we're going to be tracking it closely to make sure  
12 your studies are sound and you're doing what you  
13 need to do to protect our natural resources.

14           Our forefathers designated a lot of  
15 land in our country that are the ones that I just  
16 mentioned a little while ago -- the National  
17 Forest, the state parks, the national parks. I  
18 think we all know that transmission is kind of an  
19 archaic technology, and these desert solar farms  
20 are things that are gonna create more transmission  
21 lines.

22           There's a Smart Energy 20/20 Plan that

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1 was funded by the San Diego Foundation in San  
2 Diego which calls for in-basin photovoltaic; in  
3 fact, it's quite cheaper -- forgetting the  
4 transmission lines, it's quite cheaper than a  
5 proposed turbine engine solar farm that's been  
6 just applied for recently here in the Imperial  
7 Valley.

8 Another concern I have is that this is  
9 about BLM lands and, you know, we have -- in our  
10 community, we have a lot of farmers and  
11 landowners, large landowners, and they would like  
12 to participate in some of this, too. They would  
13 like to put some solar on their land and sell it  
14 to the utilities. But you know quite well the  
15 utilities won't buy anything that we produce on  
16 our lands if the BLM is giving them free land to  
17 develop it on a large-scale basis rather than our  
18 local landowners. Why don't they get a chance?  
19 I'm a power generator. I have solar on my house,  
20 150 percent of what I need. I don't need -- even  
21 need to be on the grid, but I am.

22 You know, I went to the Riverside

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1 meeting and I heard a gentleman say, You know,  
2 let's bring our soldiers back from Iraq and let's  
3 build these big utility farms. I want to state  
4 this: It costs a billion dollars a day to fight  
5 that war. With a billion dollars in one day, you  
6 can build for free to residences 40,000 rooftop  
7 solar systems. Think about that. I don't know  
8 that you need these solar farms out here in the  
9 desert, which is gonna create a lot of steel in  
10 the ground.

11 Deserts are part of an ecosystem, a  
12 balanced ecosystem. I don't know if you believe  
13 in God or who you believe in -- thank you very  
14 much -- but I think there's a lot of balance in  
15 what's in our country and in the world, and  
16 changing it with a million acres of solar panels  
17 must be studied extensively as it's gonna do  
18 extensive change, just like the Amazon forest.  
19 Please don't desecrate our parks, our preserves,  
20 our monuments for the commercial benefit of a few  
21 people -- foreign and U.S. investors.

22 Thank you very much.

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1 MR. AVCI: Thank you, Mr. Trafecanty.  
2 Next we have Helena Quintana. Is she here?

3 (No response.)

4 She's not here. Preston Arrow-weed.  
5 Is Preston here?

6 (No response.)

7 Okay. These are the individuals who  
8 registered online. Apparently they were not able  
9 to make it to the meeting.

10 Next then we will have Deborah Dozier.

11 (No response.)

12 Apparently she is not here either. How  
13 about Robert Niemela?

14 MR. NIEMELA: My name is Robert  
15 Niemela. I represent AMA District 38 and I am  
16 speaking on behalf of the off-road enthusiasts,  
17 and I would like you to please take into  
18 consideration the land is being taken from the  
19 off-roader at an alarming rate and we're being  
20 squeezed down into a smaller and smaller area. So  
21 they become more dangerous to be active in those  
22 areas. So all I'm asking is if you take some

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1 away, please give some back. And I would like it  
2 to be at a one-to-one.

3 Thank you.

4 MR. AVCI: Thank you, Mr. Niemela.  
5 Next we have Terry Weiner. Is Terry here?

6 MS. WEINER: Thank you. That was  
7 pretty close. Hi. My name is Terry Weiner. I  
8 work for the -- I live at 3606 Front Street and I  
9 work for the Desert Protection -- Desert  
10 Protective Council as the Imperial County  
11 Coordinator. I also want to thank you very much  
12 for adding this meeting to your list of scoping  
13 meetings. We really, really appreciate your  
14 taking the time and this is your last meeting and  
15 I'm sure you don't mind that at all.

16 While the Desert Protective Council has  
17 participated in desert lands management planning  
18 for five decades, including the involvement in  
19 FLTMA, the Desert Conservation area designation,  
20 and the passage of the Desert Protection Act, and  
21 we're pretty used to having the Southwest desert  
22 targeted for siting many projects which have high

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1 impacts, projects that folks would prefer not to  
2 have in their backyards and for which developers  
3 would prefer not to pay, we have everything from  
4 bombing ranges to toxic sludge projects to nuclear  
5 waste dumps and off-road vehicle play areas.

6 To those who haven't had the privilege  
7 of really spending time here, you know, you don't  
8 realize that it's not a desert. It's just not a  
9 wasteland. It's a living, breathing ecosystem of  
10 community of soil, plants, and animals that's  
11 really important to the creatures that live there  
12 as well as the people who use it in the desert  
13 communities.

14 We do understand the urgency of coming  
15 up with solutions to address climate change but,  
16 in the process, we do not want to imperil the very  
17 resources that we have fought so long to try to  
18 protect. And we are not opposed to siting of all  
19 solar in the California desert. We understand the  
20 incredible solar potential out here. But there's  
21 also solar potential on our own rooftops and  
22 parking lots and on our commercial sites in the

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1 cities across the nation, and we don't really  
2 believe that the deserts have to be the supply  
3 source for the whole country.

4 We don't nearly discuss conservation  
5 enough but this isn't the forum for that.

6 One thing that I have been reading  
7 about is that the renewable energy landscape has  
8 changed dramatically in the last year to 24 months  
9 as a result of the thin film photovoltaic  
10 developments and the very rapid expansion of this  
11 production.

12 The cost of commercial rooftop solar is  
13 now effectively the same or less than that of  
14 remote solar technologies because of recent  
15 dramatic drops in the photovoltaic costs. This  
16 has completely changed the ballgame, and so our  
17 petition to you is not to rush so quickly into  
18 this development that we don't give ourselves time  
19 to look at these other options.

20 The PEIS must consider how the solar  
21 projects will or will not be compatible with all  
22 of the BLM management plans. The PEIS must

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1 consider how the solar projects will or will not  
2 be compatible with the BLM's mandate to prevent  
3 listing of species. BLM should retain the current  
4 one percent cap on disturbance in the desert  
5 wildlife management areas and prohibitions against  
6 development in the areas of critical environmental  
7 consider. Should consider an alternative that  
8 focuses on renewable energy development close to  
9 the load centers. The PEIS should consider an  
10 alternative that focuses renewable energy  
11 development adjacent to the high-voltage  
12 transmission corridors and should consider the  
13 cost of transmission that is required by remote  
14 installations versus the cost of locally  
15 distributed.

16 Thank you.

17 MR. AVCI: Thank you, Ms. Weiner. Next  
18 three speakers are Larry Charpied, followed by  
19 Donna Charpied, and then Carmen Lucas.

20 MR. CHARPIED: Excuse me. My name's  
21 Larry Charpied. I'm here representing Citizens  
22 for the Chuckwalla Valley. I'll go through as

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1 quick as I can. I really believe right off the  
2 top, all environmentally sensitive or protected  
3 areas should be bypassed. We as a people and the  
4 Government have spent millions and millions of  
5 bucks and hours protecting these places, setting  
6 them aside, and this whole idea is to save the  
7 world because of these global things, then having  
8 these protected areas around when we do save the  
9 world might be a good idea.

10 Another important thing is acres per  
11 megawatt. When we look at the BLM list here, it's  
12 confusing. Some of them are taking 40 acres per  
13 megawatt and some of them are taking two acres.  
14 So if we're going to be efficient in this, I think  
15 we should be going to the two-acre-per-megawatt  
16 type of development as opposed to the 40-acre-per-  
17 megawatt development. And the reason I say that  
18 is the one development, OptiSolar, they're  
19 actually making the panels that they're gonna put  
20 out there, they're gonna get government money  
21 because of that, and they're putting up poorly  
22 efficient panels. I mean, how is that in our best

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1 interest? It's in their best interest and we need  
2 to watch out for that type of situation.

3 The promoters need to be honest. They  
4 need to tell us if they're gonna put in a cement  
5 plant so they can put up all these things or if  
6 they're gonna drive, you know, 50 miles from a  
7 cement plant. The impacts -- the carbon footprint  
8 from a cement plant or trucking 50 miles, you  
9 know, and back and forth to put in these things,  
10 that needs to be considered when we call this  
11 stuff "green."

12 Also, they say 'little disturbance.'  
13 Well, you look at your slides. You see that the  
14 ground is clean and compacted. That is maximum  
15 disturbance. None of the critters -- tortoise,  
16 snakes, lizards -- none of those guys are gonna be  
17 living there, right, so that's the end of those  
18 guys. It's pretty important if we are trying to  
19 protect us because of this environmental problem  
20 with the greenhouse gases and -- we need to be  
21 protecting something in the future that needs to  
22 be there.

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1 Karl Cicala from the Sierra Club says  
2 200 megawatts a year are now being installed in  
3 urban areas. He says, Well, that's not enough.  
4 Well, when we start giving billions of dollars,  
5 guess what? Everybody in the urban areas will  
6 have those solar panels. We need to have them in  
7 the urban areas because seven to 14 percent is  
8 lost in transmission, so that means we need seven  
9 to 14 percent more out there just to make up for  
10 that loss in transmission. That's why we need to  
11 have it on the rooftops.

12 Karl also says that these proposals are  
13 all near-load. Well, Desert Center isn't, Mojave  
14 isn't, Blythe. These aren't near-load. Rooftops  
15 in urban areas are near-load. I'm a member of the  
16 Sierra Club, Excon, ConComm. There's a lot of us  
17 in the Sierra Club that do not agree with Karl and  
18 Johanna on this idea of large-scale development.  
19 We believe local is best.

20 Also, it's a very important security  
21 issue. You know, national security issue. If you  
22 have all these little areas where the stuff is

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1 being generated on these rooftops, less likely for  
2 a terrorist to take out our electric, right? If  
3 you have these huge concentrated areas, more  
4 likely.

5 Right-of-way grants instead of land  
6 exchanges is a taxpayer ripoff. We're not getting  
7 any money for this.

8 You want me to come back and finish?  
9 I've got two more minutes to go. Thank you.

10 MR. AVCI: Thank you, Mr. Charpied.

11 MS. CHARPIED: My name is Donna  
12 Charpied. I am the policy advocate for the Center  
13 for Community Action and Environmental Justice. I  
14 work in our Desert Office. We have two other  
15 offices, one in San Bernardino and one in  
16 Riverside. And I want to talk a little bit about  
17 environmental justice with these projects.

18 You know, in our community alone,  
19 before your moratorium was lifted, there's close  
20 to 39,000 acres proposed in the Chuckwalla Valley  
21 and Desert Center area. You know, this is, to me,  
22 akin to domestic terrorism. We're in an area

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1 already where our water is in overdraft. We have  
2 some of the cleanest air that you can imagine  
3 compared to western Riverside County where Mr.  
4 Borchard gets to see the air he smells. And it  
5 just really -- it isn't fair. I know that life  
6 isn't fair, but I would really like to see a very  
7 in-depth review on environmental justice issues in  
8 rural communities and taking away people's  
9 livelihoods.

10 I'm a farmer. If you use up all my  
11 water with these 39,000 acres proposed, I'm out of  
12 business. Plus the cumulative effects of these in  
13 a community. In this community, with the BLM's  
14 blessing, we have the proposed world's largest  
15 garbage dump that will use copious amounts of  
16 water and admittedly will deplete our aquifer. We  
17 have a hydroelectric plant that would be built  
18 underneath the world's largest garbage dump that  
19 would all -- and they plan on using groundwater.  
20 And now all of these solar panels. I mean, like  
21 how much do you expect a community to take?

22 I also believe that in how you're doing

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1 all of this, you're pitting communities against  
2 each other. The *Los Angeles Times* has reported  
3 that -- or, excuse me -- the *Press Enterprise* had  
4 reported that 3500 people could possibly lose  
5 their properties in Rialto, Colton -- oh, gosh,  
6 there's another city. I'm sorry. I can't  
7 remember -- for the transmission line if they do  
8 the transmission lines this way instead of going  
9 through April Saul's Preserve. So that of course  
10 makes April happy that she's not going to be  
11 having transmission lines and it makes me happy,  
12 too, because we shouldn't be going through any  
13 sensitive areas whatsoever. But then here are the  
14 people in the areas where their lands are going to  
15 be taken away. Now, that's really important.  
16 That's just unbelievable stuff what you guys are  
17 doing here.

18 And to take land from eminent domain  
19 for solar when the beauty of solar -- transmission  
20 for solar is its individuality, you wouldn't need  
21 the transmission lines.

22 Last April, Governor Schwarzenegger was

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1 on top of a warehouse with Southern California  
2 Edison, I believe it was, and they're gonna do a  
3 solar -- they're gonna do a project up there with  
4 solar on all of these rooftops and they're going  
5 to make enough juice -- thank you -- for 150,000  
6 homes. That's really significant. Do you know  
7 how many warehouses are in urban areas that this  
8 could be happening to? I just think, to reinforce  
9 what other people are saying, I think this is just  
10 a huge land grab. Point made.

11 I would like to see some really  
12 bonafide studies of how doing these projects is  
13 going to reduce our dependency on foreign oil when  
14 we see the increase in the goods movement  
15 happening, the proposals to build inland ports,  
16 which would increase the trucks and trains, that  
17 will increase the need for fuel, that will pour  
18 heavy pollutions into communities like Loma Linda  
19 who I think is something like 1500 people out of a  
20 million die each year because of diesel pollution.

21 How is this benefitting anybody except the  
22 pocketbooks of these developers?

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1 I might come back. Thank you.

2 MR. AVCI: Thank you, Ms. Charpied.

3 Next, Carmen Lucas, please.

4 MS. LUCAS: Thank you for the  
5 opportunity to come before you and say a few  
6 thoughts. My name is Carmen Lucas. I'm a  
7 Kumeyaay Indian from Laguna Mountains. This  
8 desert and the mountain areas is part of my  
9 traditional landscape. I work with some  
10 archaeologists all over San Diego County, Imperial  
11 Valley, so I have a very good understanding in  
12 personal exposure to the land from coast to coast,  
13 so, to speak. That would be the Pacific Ocean to  
14 the Colorado River.

15 You have an archaeologist that works  
16 for BLM, Carrie Simmons, very nice lady. She  
17 doesn't have any help, so to speak. When you  
18 consider how much landscape is involved in these  
19 types of projects, I think it's crucial that you  
20 understand what's really involved here as far as  
21 the pre-history is concerned.

22 I understand we're in different times

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1 and I can't help that. I can address an  
2 obligation to my ancestors and to the remains of  
3 those ancestors. Our traditional cultural  
4 landscape goes from the Pacific Ocean to the  
5 Colorado River, up to Riverside, and below the  
6 border.

7 Our folks lived in this environment  
8 successfully with the rhythm of life and with the  
9 rhythm of this environment, with no clothes, no  
10 money, and yucca sandals, and they were able to  
11 move with this rhythm of this environment  
12 successfully continually for over 10,000 years. I  
13 think there's something to learn there.

14 In the end term, we have a different  
15 society here who's very focused on materialism,  
16 money, and it's never enough. Somebody's always  
17 thinking, How can I get more, and look at the  
18 greed that we have today. I can't help that, but  
19 I want the opportunity to locate our ancestral  
20 remains. This desert is a very sacred  
21 environment. A lot of creativity has come out of  
22 it over the years. Even in your society, you've

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1 had great authors, great musicians create their  
2 music and their wisdom in environments such as  
3 this because it offers that magic essence of  
4 place.

5 We need to identify those beforehand.  
6 You cannot do that with one archaeologist. You  
7 cannot do that by subcontracting out  
8 archaeological cultural management companies where  
9 they all mean well. They're the same as you;  
10 they're out there to make the money. They hire  
11 youngsters who do not have a trained eye.

12 I have asked many, many times that  
13 Native Americans be allowed to participate in the  
14 ground survey of any development area. We're  
15 familiar with what we're looking at. More  
16 importantly, we know how to find our human  
17 remains. We deserve an opportunity to identify  
18 sacred lands and offer up a prayer to our  
19 ancestors and do our best to protect those areas.

20 I'm happy to talk to anybody about any  
21 of this. If you need to contact me, I've left you  
22 my address. I'm happy to make site visits with

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1 you to help you better understand and visualize  
2 what I'm talking about.

3           Again, thank you for the opportunity to  
4 express my thoughts.

5           MR. AVCI: Thank you, Ms. Lucas. Next,  
6 we have Ken Wallen, followed by Donna Tisdale and  
7 then Michael Cox.

8           MR. WALLEN: First thing I should point  
9 out -- my name is Ken Wallen and the post site for  
10 the solar power plant is going to be only 15 to 20  
11 miles from my mother's home site where she lives.

12          This place was a homestead that was from my  
13 grandfather and yet I am still very strongly for  
14 it. The reason that I am so strongly for solar  
15 power is because it's a lot better than having a  
16 big old coal plant that's going to be sputtering  
17 out coal dust, and I know about potter ash and  
18 that stuff because I do -- I have an environmental  
19 A.S. behind my name also.

20           And like I said, yes, the part of the  
21 desert that you guys are talking about out by  
22 Ocotillo, my mother rode her horse many a times

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1 out there. My nephew -- I'm sorry to say that  
2 this gentleman that was from the -- my nephew  
3 rides his motorcycle out there, but I realize that  
4 we have to have alternative energy.

5 Everyone keeps talking about building  
6 these solar panels on their roofs. That is a very  
7 excellent idea. But it's not going to meet the  
8 total demand. I'm sorry. It's going to be right  
9 next to a place that I love. But I realize that I  
10 have to give up something if I'm going to remain  
11 in the lifestyle I have grown up with.

12 And like I said, solar power is a lot  
13 better than coal or oil. These are changing the  
14 environment, these power sources, and I am not  
15 going to have a nuclear power plant near my place.

16 So, again, what are my alternatives?  
17 Solar or all these others. I'm gonna go with the  
18 solar plant. Let's face it -- that's a little bit  
19 easier to digest. But, again, I am a local person  
20 that lives here in the Imperial Valley all my life  
21 and my parents' place will be affected because  
22 it's only 15 to 20 miles from it.

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1 Thank you very much.

2 MR. AVCI: Thank you, Mr. Wallen.  
3 Donna Tisdale.

4 MS. TISDALE: Hello. Donna Tisdale. I  
5 actually chair the Community Planning Group in  
6 Boulevard, which is in Eastern San Diego County.  
7 I'm here representing myself tonight, though. I'm  
8 also the head of a non-profit called Backcountry  
9 Against Dumps.

10 I was born and raised here in Imperial  
11 Valley. I've lived up in Eastern San Diego County  
12 for the last 30 or so years and I've watched this  
13 happen before. It's kind of like they say -- deja  
14 vu all over again -- reminiscent of the late '70s  
15 and '80s when the oil embargo forced people to  
16 look at renewable energy, and what really stopped  
17 that, I think, was when the -- we call them "the  
18 suits" -- all the utilities got together and  
19 decided they didn't like paying property owners  
20 for the energy that they bought back.

21 At that time, if I remember correctly,  
22 private owner had solar on his roof got paid fair

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1 market value for the energy he generated. And if  
2 we had something like that again today, I don't  
3 think we'd be looking at trashing our deserts  
4 because people would be rushing to do this. If  
5 the private person were offered the same tax  
6 credits and incentives and offered a fair market  
7 value for the energy they generated, we would be  
8 not in this position.

9 I'm sorry this moratorium was lifted.  
10 I don't think it should have been. I see a  
11 serious lack of staffing for reviewing all these  
12 projects. We've got the solar, we've got the wind  
13 turbines, and now you're doing the changes to all  
14 these land use plans. You know, these people are  
15 human -- most of them -- and, you know, people can  
16 only do so much.

17 I've also got major concerns with the  
18 source and the amount of water use in these  
19 various projects in a desert environment. Are we  
20 going to be fouling farmland? Are we going to be,  
21 you know, overdrafting aquifers? This all needs  
22 to be dealt with.

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1           We also -- I'm really concerned about  
2 the massive increase in transmission. Certain  
3 areas are gonna be sacrificed. Certain  
4 communities are gonna have to face multiple  
5 projects like this and it's overwhelming for  
6 individual communities and people who are trying  
7 to work to earn a living -- I understand you've  
8 heard all this before and it's kind of, you know,  
9 not very interesting, but this is our opportunity  
10 to talk to you.

11           I happen to live in one of those  
12 communities that's gonna be sacrificed up in  
13 Boulevard. We're dealing with an update to our  
14 land use plan. BLM, they decided to downgrade our  
15 visual resource management classification simply  
16 because it had a good wind area there -- 17,600  
17 acres PPM Energy got a right-of-way on a signature  
18 without any public notification. We protested  
19 that.

20           We're also dealing with multiple  
21 transmission lines. And, like I said before, if  
22 we focus more in the urban area where the energy

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1 is used, then our rural communities wouldn't be  
2 trashed and people wouldn't be losing their homes  
3 and properties, eminent domain for these large  
4 transmission things.

5 I also believe there needs to be a  
6 mandatory requirement to remove abandoned projects  
7 because I see that happening in the future. We  
8 had that happen in the '80s with a wind turbine  
9 farm in Boulevard after the blades started  
10 shedding and they had to keep closing our road.

11 Kumeyaay Wind Farm in Boulevard -- I  
12 know we're talking about solar now, but that's a  
13 50-megawatt project and you had to solicit it for  
14 80 megawatts because they don't use all the energy  
15 that's generated.

16 What's gonna happen here with all the  
17 solar energy? Is there actually an end use for  
18 it? Are the utilities that are supplying gas-  
19 fired power gonna allow their energy to be ticked  
20 off the line to move renewable energy?

21 I noticed on the wall here, there's one  
22 poster that says there's gonna be gas-fired power

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1 at some of these projects. That's the first I  
2 heard. I just heard that was gonna happen at  
3 Stirling. So when they're burning gas -- I see  
4 you -- when they're burning gas, are they gonna  
5 get paid the same amount of money at the high rate  
6 they're getting paid for the -- for renewable  
7 energy? Who is going to be monitoring them? We  
8 had a plant here in Imperial Valley that was  
9 supposed to burn alternative fuel -- ended up  
10 burning natural gas. So who's gonna be monitoring  
11 that if they have a gas line and they're -- and  
12 turbines there?

13 Thank you.

14 MR. AVCI: Thank you, Ms. Tisdale.  
15 Michael Cox.

16 (No response.)

17 Apparently Michael Cox has left. Next,  
18 we will have Buz Schott, followed by Dave  
19 Singleton.

20 MR. SCHOTT: Good evening. Thank you  
21 very much. My name is Buz Schott and I'm  
22 representing Stirling Energy, which is quite

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1 timely. First of all, we appreciate your work on  
2 this project. We think it's very smart of BLM.  
3 We think it's a good use of public lands to  
4 promote solar energy. It has a great benefit for  
5 the public as well as the environment.

6 Stirling Energy has proposed a plant  
7 just east of here -- or just west of here --  
8 excuse me -- near Ocotillo for 750 megawatts of  
9 power on predominantly BLM land. We filed our  
10 application with the CEC and the BLM on June 30th,  
11 and so we're moving forward with that process.

12 As I said, it will generate 750  
13 megawatts of power, all clean power. There is no  
14 natural gas involved in it. There's no burning of  
15 gas involved in it. There's no emissions  
16 whatsoever from it. The gas that's involved is  
17 called -- it's hydrogen gas. It's a closed system  
18 hydrogen gas system. The heat expands the gas,  
19 drives an engine, and then the hydrogen gas is  
20 then cooled and goes through the process again.  
21 So Ms. Tisdale would not have to worry about any  
22 burning of natural gas of any kind, so there's

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1 nothing involved with natural gas.

2 We have power purchase agreements with  
3 San Diego Gas and Electric for up to 900 megawatts  
4 of power. So the agreement to buy that energy is  
5 already in place. It's approved by the California  
6 Public Utilities Commission. So there is a use  
7 for the -- for the energy.

8 I'm pleased to see that you're also  
9 looking at transmission, both the DOE and BLM. It  
10 is critical to getting the power into the load  
11 centers, so that's one thing that has to be  
12 addressed as well.

13 There's adequate transmission for our  
14 first phase so we can continue -- we can start our  
15 project, move forward, but there will be the need  
16 for the Sunrise Powerlink or additional  
17 transmission to get the energy into San Diego.

18 There's huge benefits from Stirling  
19 Energy and other solar energy. Stirling Energy is  
20 by far the most efficient technology available.  
21 It's more than three times more efficient than any  
22 PV system. And that's not from our work. That's

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1 from the work at Sandia. So I don't have to tell  
2 the U.S. Government about that. That's done by  
3 the Sandia National Laboratories. They look at  
4 it, they test it, so we're -- we believe that  
5 there needs a balance of solar energy. You need  
6 photovoltaics on top of rooftops. But you also  
7 need central plants as well.

8 It will create jobs. It will create  
9 income for the -- revenue for the economy, so  
10 there's a lot of side benefits as well. So we're  
11 pleased that you are working in partnership with  
12 the solar developers.

13 Thank you very much.

14 MR. AVCI: Thank you, Mr. Schott. I  
15 should have mentioned this at the beginning of the  
16 comment phase. I apologize for not doing it.

17 Please when you come to the podium to  
18 make comments, do not address your comments to  
19 another commenter. We do not want this to turn  
20 into a dialogue among the commenters. Please  
21 limit your comments to the scope of the PEIS.

22 Next speaker will be Dave Singleton.

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1                   MR. SINGLETON:       My name is David  
2                   Singleton.       I'm with the State of California  
3                   Native American Heritage Commission and, you know,  
4                   our role with these projects, we're first -- we're  
5                   the state trustee agency for the protection and  
6                   preservation of Native American burial grounds and  
7                   cultural resources.

8                   The way we do our work is we're not a  
9                   regulatory or an enforcement agency, but we work  
10                  in partnership with local tribes and Native  
11                  American organizations through the consultation  
12                  process that Linda mentioned earlier that's  
13                  encouraged under NEPA and certainly under the  
14                  state environmental laws.

15                  We are concerned hearing from tribes,  
16                  you know, about the -- about the cumulative  
17                  effect, in particular, of not only the solar but  
18                  the other energy projects.       We're certainly  
19                  supportive, you know, of the federal policy goals  
20                  of developing renewable energy.       But we're  
21                  concerned that, you know, that the tribes feel  
22                  that there's an environmental justice, you know,

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1 issue here and that they want to be consulted with  
2 regard, you know, to where those projects occur  
3 and how they occur, both in terms of, you know,  
4 direct, indirect, and cumulative effect.

5 Now, in the desert area, the project  
6 area, Kern, San Bernardino, Riverside, Imperial,  
7 San Diego, you know, all areas of my  
8 responsibility with the Native American Heritage  
9 Commission, there are thousands of Native American  
10 cultural resources. And, you know, we urge that  
11 the Bureau of Land Management consults very  
12 carefully with local tribes, such as Carmen Lucas  
13 here, such as Preston Arrow-weed from the Kochan  
14 Indian Nation, and other tribes in this general  
15 region because, you know, those cultural resources  
16 and burial sites are at risk, in our opinion.

17 Now, our preference, where there are  
18 identified Native American cultural resources, is  
19 avoidance. We certainly think that looking at the  
20 urban alternatives, you know, deserves merit, you  
21 know, so that these projects will not be at the  
22 expense of the delicate ecology of the desert of,

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1 you know, rural America and, in particular, Native  
2 American cultural resources.

3 Thank you.

4 MR. AVCI: Thank you, Mr. Singleton.  
5 We have now come to the end of the list of the  
6 individuals who have registered, pre-registered to  
7 speak. I will now open the floor to others who  
8 have not spoken so far. If you would like to  
9 speak, if you would like to provide comments,  
10 please raise your hand and I will call you to the  
11 podium.

12 Yes, please. And when you come to the  
13 podium, please clearly state your name and your  
14 affiliation.

15 MR. O'SHEA: Good evening. My name is  
16 Dennis O'Shea. I run a water purification  
17 equipment design consultancy in Ocotillo.

18 I had some prepared comments today and  
19 I was on the list for speakers who signed up  
20 online, but I realized that the comments  
21 themselves were too project-specific and would be  
22 out of the context of what it is that we're doing

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1 here tonight.

2 One of the things as I listened to the  
3 progress of the meeting or of the -- yes, the  
4 meeting -- one of the things that dawned on me is  
5 that there doesn't seem to be any shortage  
6 whatsoever in large solar projects. There seems  
7 to be quite a lot of them. But the issue of  
8 transmission seems to always come up and does seem  
9 to be a very sensitive subject and it will  
10 probably be well discussed and debated.

11 I was wondering if at some stage we  
12 could find out whether the National Labs, the  
13 powers that be, whomever, are doing something  
14 about transmission lines, about the transmissive  
15 features that would be so essential to the central  
16 production of power for solar.

17 We've heard the comments about how one  
18 alternative might be better than the other but,  
19 quite frankly, we have a situation, I believe,  
20 that we might have a need for that excess of power  
21 that right now doesn't have anywhere to go. We  
22 might be in a situation in which the -- perhaps

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1 the environmental prerogatives that a lot of us so  
2 prefer will need that -- the lack of impact within  
3 other contexts that solar power in this size  
4 plants will provide.

5 And if we could get some -- at some  
6 stage some inclusion of the -- addressing the  
7 aspect of transmission in the PEIS, it might be  
8 helpful to put another context in what's going to  
9 be an intractable part of the whole undertaking.

10 Thank you.

11 MR. AVCI: Thank you. I see one more  
12 hand back there. Please come up.

13 MS. LEE: Well, as a Holtville student

14 --

15 MR. AVCI: Please state your name.

16 MS. LEE: My name is Vanessa Lee.

17 MR. AVCI: And could you speak into the  
18 microphone a little bit more.

19 MS. LEE: I am Vanessa Lee. I am a  
20 student of Holtville High School and we are  
21 actually very solar-powered and I recently noticed  
22 that there are a few problems about environment

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1 and everything.

2 I am speaking on behalf for those --  
3 some students over at Holtville High. We do  
4 really enjoy our environmental area and  
5 everything, but solar -- the solar plant that you  
6 are talking about, we think it's a great idea.  
7 But the problem is that it is taking up areas and  
8 we think it is actually better to do it through  
9 urban because one of our buildings in our actual  
10 school is completely solar power. In fact, on the  
11 building, it actually says that it's powered by  
12 the sun. We even have solar-powered fountains  
13 there as well.

14 We think that if you give it a chance,  
15 because I have also recently heard that there's  
16 some who are actually worried for the plant, we  
17 are for that, too, but we think it's better for  
18 urban because we could actually get more power  
19 done as we have done it so far at our school.

20 If we could do that at our school, I  
21 think if you do it urban, basically what I'm  
22 trying to say is I think it would be better if we

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1       tried it publicly in our own homes at first  
2       instead of the giant areas and acres of these  
3       plants.

4                       Thank you.

5                       MR. AVCI: Thank you. Is there anybody  
6       else who has not spoken so far and would like to  
7       at this time?

8                       (No response.)

9                       Okay. I know we have at least one.  
10       Any individuals who have provided comments  
11       previously and would like to add to his or her  
12       comments, please come up and state your name and  
13       affiliation again.

14                      MR. CHARPIED: My name is Larry  
15       Charpied. I represent Citizens for the Chuckwalla  
16       Valley. I'll make this as quick as I can.

17                      I wanted to reiterate again the right-  
18       of-way grants instead of land exchanges is really  
19       putting us taxpayers -- we're not gonna really get  
20       anything for this land, so it just blows my mind.

21       A 26-mile block of land for this one project is  
22       not a right-of-way and they should be made to pay

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1 fair market value for this land. Jiminy Criminy.

2 Twenty-year life span for these  
3 projects is not a solution, is a Band-Aid fix, you  
4 know. Come on, you guys. Why are we doing this  
5 in a massive scale? Prudent business dictates  
6 that we start small and, if it works, then we  
7 expand. The whole issue here is government money  
8 and government land. They're not -- it's not  
9 energy independence.

10 If energy independence was the issue,  
11 then there would be solar panels on every  
12 residential roof and every commercial building in  
13 the urban areas. So -- and the government would  
14 be requiring this if we were concerned about  
15 energy independence. What we're seeing here is a  
16 continuation of keeping us dependent on energy  
17 companies and, as the price goes up, just like  
18 Edison just cut off 124,000 people's electric  
19 because they couldn't afford to pay their bill.  
20 You know, the government should be giving these  
21 people money so they can run an electricity -- if  
22 we're really interested in the people and how much

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1 it's gonna cost, these types of issues need to be  
2 addressed.

3           Okay. I wanted to again say that --  
4 real quick about jojoba and I want to know how we  
5 are going to make sure that this tax incentive  
6 money actually goes into getting this energy out  
7 there. We saw a seven-to-one tax incentive,  
8 jojoba being on the strategic critical materials  
9 list because it was gonna get us off our knees to  
10 the oil-producing countries. All that money was  
11 spent, all that land was tore up, with everything  
12 gone, and now we see these huge massive abandoned  
13 jojoba fields. So we got nothing for our money  
14 out of that.

15           Personally, Donna and I did because we  
16 actually produce jojoba and sell it.

17           Lastly, and very important thing, solar  
18 is not gonna stop any coal, oil-burning plant.  
19 It's not gonna stop any coal or oil-burning  
20 plants. All solar is gonna do is meet partially  
21 the demand increase caused by population growth.  
22 So we're not looking at any panacea on fixing the

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1 -- cleaning the air or anything like that. All  
2 we're looking at is making a lot of investors  
3 money at the taxpayers' expense, and I would hope  
4 that you guys making these decisions would be  
5 prudent about our tax lands and our monies.

6 Thank you.

7 MR. AVCI: Thank you. Anybody else?  
8 In fact, I think I see somebody who has not spoken  
9 before.

10 MR. GROGAN: Thank you. My name is  
11 Larry Grogan and I represent District 2 on the  
12 County Board of Supervisors here for Imperial  
13 County, and I want to thank you for coming and  
14 holding this hearing. As you can see, it's a  
15 sensitive subject. Any time that you start to  
16 talk about energy, everybody has an opinion.

17 This is also my third time through the  
18 energy process. Back in 1973, '75, I was working  
19 in the energy field of geothermal and we went  
20 through this -- much of the same process, much of  
21 the same hearings, much of the same stories, much  
22 of the same concerns, and some -- many of the same

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1 issues regarding geothermal about -- all the  
2 myriads of concerns that you hear now, we've heard  
3 before.

4           Unfortunately, nothing was solved.  
5 Geothermal, while it had possibilities and  
6 certainly has a future, without the tax incentives  
7 that was necessary, it just was not economical  
8 because of the cost of producing energy from such  
9 deep wells here and certainly at the Salton Sea  
10 where individual wells can cost as much as \$14  
11 million.

12           It's hard to describe to someone what  
13 solar can really be without having examples that  
14 we can point to and say, Yes, we are going to cut  
15 down our carbon emissions; yes, it is going to be  
16 efficient; yes, we will not have all the noxious  
17 oxides of gas-fired or oil-fired plants.

18           And yet if we're going to have a  
19 future, it certainly is going to have to be away  
20 from hydrocarbon. You know, we look today -- and  
21 I'm just going to mention, you know, at the  
22 Iranian missiles that they had. Forty percent of

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1 our oil comes through -- the oil of the world  
2 comes through the Port of Hormuz. And if that  
3 were to shut down just shortly, I mean, we would  
4 be down to 70 percent of what we have here in the  
5 United States.

6 It is not just the fact that we have to  
7 rely on oil, but it's just all the energy we have  
8 that is intermingled and, without a solid energy  
9 policy, and that includes both solar and  
10 geothermal, wind, and obviously I think nuclear,  
11 we still are wandering about. We really have to  
12 set some priorities, and I think solar is  
13 certainly a pillar which has to be as part of that  
14 house.

15 So, again, I thank you for coming. We  
16 appreciate your patience. It's not always easy  
17 just sitting and listening and not having  
18 comments, but I certainly understand and thank  
19 you.

20 MR. AVCI: Thank you. I see one more  
21 hand. Please come up.

22 MR. TRAFECANTY: Denis Trafecanty from

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1 Santa Isabel. You know, Governor Schwarzenegger  
2 indicated just recently that we have a water  
3 shortage in California. And one of the problems  
4 that we have, especially in San Diego, is our  
5 dependence on that resource coming from somewhere  
6 else besides San Diego.

7 Okay. Now we're talking about -- I  
8 agree that we have to reduce our dependence on  
9 foreign oil, but I think San Diego, like a lot of  
10 metropolitan areas, they have to figure out a way  
11 to reduce their dependence on energy coming from  
12 outside of their metropolitan area. There is no  
13 way possible that it's cheaper to build a solar  
14 plant out here in Imperial Valley or the Mojave  
15 Desert compared to having that solar produced on  
16 rooftops, on parking lot structures, on buildings  
17 because the developers don't want to talk about  
18 what it takes to get it into the city and the city  
19 is not -- is still dependent on the solar coming  
20 from somewhere else.

21 It's just like this Imperial Valley  
22 substation over here. They're running -- I.D.

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1 runs their power lines through it, the Southwest  
2 Powerlink goes through it, and now the -- they  
3 want to build the Sunrise Powerlink right through  
4 our -- right through our state park. You know,  
5 our forefathers developed all these areas for the  
6 future -- for our future generations, for us, for  
7 our children, for their children. We're gonna sit  
8 here, all of us in this room, and decide to de-  
9 designate those lands to drive trams of steel  
10 right through them? Come on. We can't do that.  
11 We won't do that. We'll fight tooth and nail  
12 until the very end. We'll be talking about this  
13 in 2020 because we're just not gonna let it  
14 happen. We're the public.

15 San Diego shouldn't be dependent on  
16 importing energy. It should be developing its own  
17 energy there, and we have a plan that's much  
18 cheaper than building any kind of a solar plant,  
19 whether it's Stirling or someone else, by having  
20 rooftop solar in San Diego. It's called the Smart  
21 Energy 20/20 Plan for San Diego and anybody else  
22 in this -- in this state or in the six states that

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1 you're talking about has a similar situation.

2 We're gonna keep saying please don't  
3 destroy our parks, don't destroy our forests,  
4 don't destroy our preserves, don't take our homes,  
5 don't poison our lands, and don't darken our  
6 skies. Don't threaten our lifestyles. Don't  
7 destroy our back country with power needs. Make  
8 our cities sustainable and self-sufficient for the  
9 greater good for all of us.

10 Thank you.

11 MR. AVCI: Thank you. Please.

12 MS. CHARPIED: Donna Charpied, the  
13 Center for Community Action and Environmental  
14 Justice, and I promise to make this really quick.

15 Now, I don't think anybody argues the  
16 point that solar panels are a really good thing.  
17 What our argument is, is where you're planning on  
18 putting them and putting them the closest to the  
19 people that need them is where you should do it.  
20 I believe -- a lot of people believe, not just me,  
21 that you should not use any undisturbed lands at  
22 all. You can use -- there's -- supposedly, a lot

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1 of these new plants are going to be decommissioned  
2 within the next ten or maybe even sooner years.  
3 Why not put those solar panels there? You already  
4 have the transmission lines happening. Why not  
5 put them in closed dumps where land's already  
6 disturbed. Again, the rooftops -- we'll bang that  
7 drum until you guys finally get it through your  
8 heads.

9 And not one housing project -- like the  
10 Tejon Ranch right now, there's gonna be a huge  
11 development. Developments like this and other  
12 developments should not even be considered unless  
13 they have an alternative energy element included  
14 in them.

15 My husband was a little wrong on that  
16 *L.A. Times* article. They reported that it was  
17 145,000 people who they had to cut off their  
18 electricity because they couldn't afford the bill.

19 It's really important to know the true cost of  
20 what this is gonna be to the consumers.

21 I know on my electric bill right now,  
22 there's a charge for when they decommissioned the

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1 Palo Verde nuclear plant. How much is the charge  
2 gonna be on my bill and everybody else's bill when  
3 we have to start cleaning up after 30 years the  
4 destruction they did to our desert with their  
5 solar panel because, after 30 years, I don't think  
6 you're just gonna let them leave it there, are  
7 you?

8 Coalinga has a solar facility up there,  
9 and what they're using to help with the generation  
10 is a manure burner. I'm a very cynical person and  
11 sometimes with good reason. I'm really afraid  
12 that with a lot of these solar plants that are  
13 designated in the desert, they might decide to,  
14 Hey, why don't we do some -- burn sludge, you  
15 know, human waste and those things. What are  
16 gonna be the impacts of that kind of stuff? I  
17 mean, like once this camel gets his nose in the  
18 tent, we're gonna be in really big trouble.

19 And I was really remiss, and I'm  
20 embarrassed that I never mentioned Joshua Tree  
21 National Park that is in my backyard and I have  
22 fought the Eagle Mountain dump furiously for the

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1 last 21 years to protect it. I don't think I have  
2 -- I'll rephrase that -- I do have another 20-year  
3 fight left in me and if anybody tries to harm that  
4 park again, get ready because we're not gonna just  
5 -- as the gentleman said before, we're gonna --  
6 we're gonna cry loudly and we're gonna cry long  
7 until you hear us.

8 Thank you.

9 MR. AVCI: Thank you.

10 MS. CHARPIED: Thank you.

11 MR. AVCI: Is there anybody else who  
12 would like to add or would like to come up to the  
13 podium to present for the first time? Please,  
14 come up.

15 MS. WEINER: Thank you. Terry Weiner,  
16 Desert Protective Council. I just wanted to ask  
17 the recorder if she has been able to record all  
18 the list I was running through very quickly?

19 THE REPORTER: Yes.

20 MS. WEINER: You're amazing. But the  
21 other -- but I did -- forgot to mention a very  
22 important hazard in the desert areas, which is

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1 earthquake hazard. You know, I'm surprised we  
2 didn't feel an earthquake while we're sitting here  
3 tonight. So that has to be considered in the EIS,  
4 too. Thank you.

5 MR. AVCI: Thank you. Anybody else?  
6 Okay. Apparently not.

7 MS. TISDALE: Oh, I have something  
8 else.

9 MR. AVCI: Spoke -- okay.

10 MS. TISDALE: Just real quick. I just  
11 wanted to remind everybody to pay attention when  
12 your BLM land use management plan is being revised  
13 because you need to take the opportunity to --  
14 this is serious -- and if they get those plans  
15 changed, it's too late to make any comments. So  
16 pay attention.

17 Thank you.

18 MR. AVCI: One last time.

19 (No response.)

20 Thank you all for coming. Special  
21 thanks to those who provided comments. Just a  
22 reminder that the comment period for the PEIS runs

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1 through July 15, 2008. If during this time you  
2 should have additional comments or comments for  
3 the first time, you can send them to the address  
4 that I showed on one of the slides previously, but  
5 also you can see it on the poster on the side  
6 here.

7 If you have anything that you'd like to  
8 turn in this evening, again, you can give it to me  
9 or any one of the PEIS staff with a badge before  
10 you leave tonight.

11 You can also log onto the project  
12 website, [solareis.anl.gov](http://solareis.anl.gov) and provide your  
13 comments that way.

14 At this time, I wish you all a safe  
15 trip back home or wherever your destination might  
16 be. It is now 8:34 according to my watch and this  
17 meeting is officially adjourned.

18 (Meeting adjourned at 8:34 a.m.)  
19  
20  
21

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