

Transcript

Solar Energy Development Programmatic EIS Scoping Meeting held in Riverside CA, June 16, 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

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

+ + + + +

MONDAY,
JUNE 16, 2008

+ + + + +

The above-entitled meeting convened at 6:15 p.m. at the Courtyard Marriott, Riverside, 1510 University Avenue, Riverside, California, Karen Smith, facilitator, presiding.

PRESENT:

STEVEN BORCHARD
Bureau of Land Management

DOUG DAHLE
National Renewal Energy Lab. (NREL)

JOHN GASPER,
Argonne National Laboratories

HEIDI HARTMANN,
Argonne National Laboratories

LINDA RESSEGUE
Bureau of Land Management

FRANK WILKINS
Department of Energy

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

2 6:15 p.m.

3 FACILITATOR SMITH: Okay. Good
4 evening. My name is Karen Smith, I'm with
5 Argonne National Laboratory and we are working
6 on behalf of DOE and BLM to prepare this
7 Programmatic Environmental Impact Statement. I
8 assume you're all here for the public scoping
9 meeting for the solar energy development PEIS.

10

11 I want to apologize, I guess
12 there's been some confusion about the start
13 time and, just to clarify, if any of you are
14 going to be attending additional scoping
15 meetings the doors open at 6 and the
16 presentations begin at 6:30, so if you're
17 going on our traveling road show plan
18 accordingly. That's going to be the start
19 times for future meetings and I apologize for
20 any confusion this evening.

21 We're going to start off with a

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1 series of presentations and then we're going
2 to get as quickly as we can to the main point
3 of the evening which is your public comments.
4 And I'd like to introduce for you Steve
5 Borchard, he is the California Desert District
6 Office Manager.

7 MR. BORCHARD: Good evening. I see
8 lots of familiar faces in the audience. Thank
9 you for coming tonight, thanks for coming to
10 this public scoping meeting about solar energy
11 development on BLM-administered lands.

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

19 Our agencies believe that preparing
20 a Programmatic EIS is a critical step in
21 evaluating the extent to which public lands
22 with high solar energy potential may be able

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1 to help meet the nation's need for renewable
2 energy.

3 The BLM already has over 125
4 applications in the pipeline for solar rights
5 of way in energy. The potential of these
6 sites alone is enormous -- 70 billion watts of
7 electricity, or enough to power 20 million
8 homes on a sustained basis.

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

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

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1 out their respective agency missions.

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

9 FACILITATOR SMITH: Thank you
10 Steve. The next individual I'm going to
11 introduce is Frank "Tex" Wilkins and Tex is
12 from DOE in the Solar Energy Technologies
13 program and he's their team lead for the PEIS.

14 MR. WILKINS: Hi. I thought I'd
15 give you a little bit of a background in why
16 DOE is interested in all this, and it all goes
17 down from two of the basic goals from the
18 Department of Energy, and one is to add
19 energy supply from diverse resources,
20 including renewable energy, and the other is,
21 although sort of the flip side of that is to
22 do that in a way that is environmentally

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1 sensitive. So those of us in the solar
2 program think that we hit the ball on both
3 ends in that solar certainly is renewable and
4 it doesn't create any greenhouse gases when
5 you're generating the power, so therefore we
6 think it's environmentally good and it's going
7 to last a long time without the need for any
8 fossil fuels.

9 A little bit of background about
10 our program in solar energy. This year we had
11 a budget of around \$170 million dollars, but
12 as you can see on the slide there 90 percent
13 of that money goes towards research and
14 development. Basically, what we do is
15 research and development. We fund industry,
16 we fund our national laboratories and
17 universities to do work that reduce the cost
18 and increase the reliability of solar
19 technology. We want to get that technology so
20 that it's competitive with other fossil fuels.

21 We also though have another
22 category called Market Transformation, which

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1 is about the other 10 percent of the budget
2 and that we work with a variety of states with
3 other organizations to try to lower the
4 barriers of solar energy deployment so that we
5 can get more solar power into the country, and
6 this PEIS is part of that market
7 transformation although it's a small part of
8 that 18 million.

9 In the solar program there's two
10 basic kinds of technologies, although there's
11 variations of each. One, and probably what
12 you're most familiar with, is photovoltaics.
13 It goes on houses, it powers the space
14 shuttles, it also powers phones along the
15 highways. So generally, mostly what it does
16 is on very distributed applications. But you
17 can put modules together in large quantities
18 and also have it produce a lot of power for a
19 utility scale project.

20 The other technology is
21 concentrating solar power, and these tend to
22 be generally fairly large and by and large the

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1 application goes towards large scale utility
2 projects. And indeed it's the large scale
3 utility projects that this PEIS is really
4 focused on.

5 So why are we interested in working
6 with BLM? Well, two things. One, for a
7 solar project to really work you need to have
8 a very intense solar radiation and the United
9 States is blessed, particularly in the South
10 West the six states that we're dealing with,
11 has some of the best solar resources in the
12 world. In fact, when you consider that
13 there's very large demand centers throughout
14 that area, it is probably the best in the
15 world.

16 The other thing though is that
17 these tend to be large systems. Each megawatt
18 requires at least five acres so a 125 megawatt
19 system, which is sort of in the medium size of
20 some of these things, would take up to 2
21 square miles so you're talking about a lot of
22 land and turns out that the federal

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1 governments owns a lot of land in the
2 Southwest and most of that is managed by the
3 Bureau of Land Management and indeed they have
4 119 million acres in those six states.

5 So we're interested in this because
6 the sun is here and the land is here.

7 What we hope to get out of this?
8 Primarily, we want to see what land is
9 available, both from a technical and
10 environmental point of view.

11 Now we know the technical end of
12 it, that means essentially you need the best
13 solar resource and the land has to be fairly
14 flat, you want to have a certain amount of
15 contiguous so that you can get a large plant
16 in one spot. But the other is the
17 environmental aspects of it and that's a
18 little bit foreign to us at DOE but it's
19 something more in line with what the Bureau of
20 Land Management works with. And indeed the
21 point of these meetings and this
22 environmental, this PEIS, is to get to the

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1 heart of some of those.

2 We also want to establish a policy
3 that shows, okay, if we at DOE are going to
4 put some money into some of these projects,
5 what are the best management practices, how do
6 we minimize the impact to the environment?

7 It's going to help the developers
8 that are going to be building these projects
9 in that what we learn through this they'll be
10 able to tier off of. That means that when
11 they do an environmental impact statement on
12 their particular area for their project they
13 won't have to learn the things that we're
14 going to learn through this process.

15 And from the analytical part of me,
16 I'm an engineer, it'll get us better
17 information so that we can more accurately
18 model the impact of solar energy in this
19 country from the point of view of how much
20 power it can possibly provide, how many jobs
21 it can create. This technology tends to be
22 capital intensive which means it requires a

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1 lot of people to build it and a lot of people
2 to maintain it, and also what potential it has
3 to mitigate climate change because climate
4 change is becoming more and more of a national
5 issue and we think solar energy can play a
6 role in helping us along the right path to
7 that.

8 FACILITATOR SMITH: All right.
9 Thank you Tex. The next speaker is Linda
10 Ressegue from the Bureau of Land Management,
11 their Washington office, and she is BLMs's
12 manager for the solar PEIS.

13 MS. RESSEGUE: Welcome. Thank you
14 all for coming tonight.

15 Probably most of you know this but
16 let me just say that the Bureau of Land
17 Management is an agency within the Department
18 of the Interior that manages 258 million
19 surface acres of public lands. The slide
20 simply shows the distribution of our lands in
21 the Western states and also about 80 million
22 acres in Alaska.

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1 Of those 258 million acres that we
2 manage, about 119 million or 46 percent are in
3 the six state study area for the solar PEIS.
4 So that slide simply shows you the
5 concentration where BLM lands are in the six
6 states that we're looking at.

7 BLM has a multiple use mission and
8 that mission is to sustain the health and
9 productivity of the public lands for the use
10 and enjoyment of present and future
11 generations.

12 We accomplish this mandate by
13 managing activities like outdoor recreation,
14 livestock grazing, mineral development, energy
15 production and by conserving natural
16 historical and cultural resources on the
17 public lands.

18 Solar energy is one of the many
19 energy resources now being developed or
20 considered on federal lands. To ensure the
21 best balance of uses and resource protections
22 for Americans' public lands, BLM undertakes

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1 extensive land use planning through a
2 collaborative approach with local, state and
3 tribal governments, the public and stakeholder
4 groups.

5 The result is a set of land use
6 plans that provide the framework to guide
7 decisions for every action and approved use on
8 our public lands. Now BLM has land use plans
9 on virtually all the land that it manages, but
10 most of those land use plans do not
11 specifically address solar energy development.

12 Why is BLM involved in the
13 preparation of this Programmatic EIS?

14 Well, first of all, there's
15 Executive Order 13212 issued in May of 2001
16 that says federal agencies are supposed to
17 expedite energy-related actions. And also the
18 Energy Policy Act of 2005 set a goal for BLM
19 to approve 10,000 megawatts of renewable
20 energy on the public lands by 2015. That was
21 a 10-year window and it's going by quickly.

22 As I mentioned, BLM has to manage

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1 the public lands for resource uses, for a
2 variety of resource uses including energy
3 development and, as you know or you may know,
4 the federal energy mix managed by BLM already
5 includes oil and gas, helium, coal,
6 geothermal, wind, biomass and soon utility
7 scale solar.

8 BLM has previously estimated that
9 as much as two-thirds of the public lands it
10 manages may have high potential for
11 concentrated solar power energy production.

12 Now utility scale solar projects on
13 BLM lands are authorized by BLM rights of ways
14 issued under the Federal Land Policy and
15 Management Act. All activities proposed for
16 public land must be consistent with the terms
17 and conditions and decisions in an approved
18 land use plan so before BLM can approve a
19 solar energy development project, BLM has to
20 assess the direct, indirect and cumulative
21 impacts of such development and they have to
22 consider other resources values, sensitive

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1 areas and public concerns, all of this
2 completed through the NEPA process.

3 Now, as Steve mentioned, we've
4 already received more than 125 applications,
5 mostly in southern California, Nevada and
6 Arizona. This meeting is not about specific
7 projects but you will have an opportunity to
8 comment on those projects as they are
9 processed because the solar applications which
10 have already been filed with BLM will continue
11 to be processed on a case by case site-
12 specific basis with a site-specific NEPA
13 process.

14 These pending applications will
15 move forward on a parallel process with the
16 PEIS. However, BLM is deferring the
17 acceptance of new applications until the
18 completion of the Programmatic EIS.

19 What are BLM's programmatic goals?
20 Under our current policy we process cases on a
21 first come first served basis so if a company
22 wants to file an application they identify the

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1 lands, they come to BLM with their application
2 and we process it -- each site again with its
3 own site-specific NEPA.

4 But we think that looking
5 programmatically at the issues associated with
6 solar energy development will allow us to
7 develop a more comprehensive, consistent and
8 efficient program approach to adjust solar
9 energy proposals on public lands.

10 We expect that this programmatic
11 EIS will identify public lands best suited to
12 solar energy development, public lands that
13 are not well suited for such development,
14 mitigation strategies and best management
15 practices to guide future solar energy
16 development.

17 The other thing that we are looking
18 at is the need for possible additional
19 transmission corridors to specifically
20 facilitate solar energy development. And I
21 know that many of you may have participated in
22 the West-wide corridor PEIS but what we're

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1 finding is that we may have missed
2 opportunities specifically for solar and we
3 want to make sure that as we go through this
4 focus on solar energy development that we
5 don't miss any opportunities for the
6 associated transmission corridors that may be
7 needed on BLM lands to facilitate that
8 development.

9 We think the Programmatic EIS will
10 be key in advancing the understanding about
11 the impacts of solar energy development and
12 how best to deal with those impacts, and that
13 the resulting decisions will better foster and
14 support the nation's need for environmentally
15 sound solar energy development.

16 We expect to amend land use plans
17 in the six-state area to adopt the solar
18 energy decisions made as a result of the PEIS.

19 These meetings are an important part of the
20 BLM planning process, as well as the NEPA
21 process. We have included proposed planning
22 criteria in our Federal Register notice

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1 published May 29th and tonight we are also
2 asking for your comments on those criteria
3 during the scoping process. Thank you.

4 FACILITATOR SMITH: Okay. Linda,
5 thank you very much.

6 The next person who's going to
7 speak is Doug Dahle. He's a senior program
8 manager with the National Renewable Energy
9 Laboratory. NREL is providing technical
10 support to the EIS with respect to defining
11 the resources, solar energy resources and the
12 technologies, and I want to mention they made
13 all the posters along this side of the room.
14 So Doug is going to talk a little bit on
15 resources and technologies.

16 MR. DAHLE: It's a pleasure to be
17 here tonight and nice to see all those that
18 volunteered their time to join us this
19 evening.

20 Basically, I'm going to talk about
21 three basic things. I'm going to give you sort
22 of an overview of the actual technologies, I'm

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1 not going to get into the details of exactly
2 how they work but give you a perspective on
3 what these utilities--

4 COURT REPORTER: Can you lift the
5 mike?

6 MR. DAHLE: There you go. So
7 anyway I'm going to focus primarily on the
8 large utility scale applications. We're
9 looking at stuff that's in the 10 megawatt
10 range or higher. I'm going to share with you
11 also sort of the GIS, Geographical Information
12 System-based solar resources that reside at
13 NREL. It's used by industry, and some terms
14 of evaluating opportunities. And then a
15 couple of slides on basically the federal
16 policies that have a huge impact on deployment
17 of solar technologies.

18 Next slide. Basically, I would
19 categorize the solar technologies as sort of
20 two key areas, one what's called dispatchable
21 which means it isn't necessarily operating
22 only when the sun's up, and the other solar

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1 systems without storage. And the storage
2 dispatchable is the parabolic trough. On the
3 upper left is one of the slides that you saw
4 from Tex, this is a parabolic trough plant,
5 it's been operating for almost 20 years in the
6 Mojave Desert, hugely reliable, it's basically
7 commercially available.

8 The power tower, this is something
9 you may have seen if you've ever driven
10 through the Daggett area, a large tower with
11 heliostats focusing on a tower where molten
12 salt is heated and used to generate power.
13 And then the more recent is the compact linear
14 Fresnel reflector. It's a lower cost system
15 and it basically heats steam.

16 And then what we call the dish
17 engine. It's a Stirling engine and I'll get
18 into more details of these, but there's also
19 concentrating photovoltaics, something that is
20 not like what you see on roofs of homes, and
21 then the flat pipe PV that you're probably
22 most familiar with.

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1 The concentrating solar power.
2 Let's talk about the dispatchable power. Here
3 this is a picture, the upper one is the Kramer
4 Junction Plant, a solar energy generating
5 station that's been operating since the mid-
6 80s. This is about a 75 megawatt plant.

7 The power tower is the lower
8 picture and basically this is heliostats all
9 focusing on this tower which has molten salt
10 and it allows significant storage potential.
11 In fact, the first operating plant was able to
12 generate 24 hour solar energy for Southern
13 California for about ten days before a lot of
14 cloud cover slowed it down.

15 Next slide. This sort of shows the
16 value of the storage, basically most
17 utilities, showing sort of the red line is
18 basically if you're looking at Southern
19 California and their peak shows up at seven in
20 the morning, driven a lot by residential as
21 well as the start up of industry. The other
22 peak tends to occur after 7 p.m., something

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1 like that and the trick of being able to use
2 the storage is actually to be able to dispatch
3 that over their peaks. A solar system, the
4 sun sets and their peak is afterwards is not
5 of particular value. This is the most
6 expensive power is what we see in the evening
7 if you will and that's when all these gas
8 turbine generators come on line. The idea
9 here is to use solar to be able to not only
10 peak during the middle of day when the solar
11 resource is the highest but also to be able to
12 deliver power when they hit their peak later
13 in the evening.

14 Next slide. Another technology and
15 this is called the Dish Engine and it
16 basically is a dish that focuses on one
17 single, it's point focusing on a Stirling
18 Engine. It's a very simple device that
19 basically heats up a fluid, basically drives a
20 piston if you will and runs a generator.

21 These are basically becoming
22 commercial now. In fact, there's a large

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1 project with BLM where the Stirling Dish
2 Engine will be deployed and they're typically
3 in the 25 kilowatt size versus the power tower
4 we saw there was on the order of 70 megawatts
5 in the plant that you saw for parabolic
6 troughs are rather large. In fact, the latest
7 announcement of a project was for Arizona
8 Public Services, a 250 megawatt plant in
9 Arizona with thermal storage of six hours.

10 Next technology, these are all
11 concentrating photovoltaic systems. There's
12 three different types. One's called reflective
13 and it's similar to that dish we just saw and
14 basically it focuses the sunlight directly on
15 solar cells. What they say here, and all
16 three of these technologies have what's
17 capability is called 500 suns, so the amount
18 of power that's put out by this PV is 500
19 times then you'd have to have 500 times the
20 area to get the same amount of power out of
21 flat plate photovoltaics.

22 There's a also a refractive where

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1 it's actually a lens on top of the solar cells
2 refracts the resource and again it's the
3 equivalent of 500 suns. And the last is a
4 reflector and an optical rod that's used to
5 achieve the same thing, but basically high
6 intensity solar resource focused on these
7 photo voltaic cells, i.e. the most expensive
8 part of photovoltaics is in silicon cell and
9 the idea is can you get more out of it with
10 these concentrating systems.

11 Next slide. The resource that
12 provides all of these technologies I've just
13 talked about it is what's called direct normal
14 insulation. It's basically the sun rays that
15 hit, if you had a flat surface, 90 degrees to
16 that.

17 And here's the resources in the BLM
18 lands and what we're looking at it is anything
19 5 kilowatt hours per meter, square per day or
20 the metric that you use. And we'll be looking
21 in the Programmatic EIS at all the lands that
22 have that direct normal insulation resource.

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1 Next slide. The other the more
2 conventional systems that you're probably
3 familiar with is photovoltaic, flat plate
4 photovoltaic cells. The one on the left we're
5 proud to say is the largest photo voltaic
6 plant in the United States. Nellis Air Force
7 Base built a 14 megawatt plant. These are
8 flat plate PV but they're also on single axis
9 to they track the sun through the day. Huge
10 amount of power.

11 And then the next one I'm showing
12 you just for purposes of capacity and size and
13 we're talking greater than 10 megawatts of
14 photovoltaics. That takes up some land. But
15 this is one in Portugal, it's 11 megawatts and
16 you can see the land area. But the interesting
17 part about it you look at the vegetation
18 underneath, it's a little bit different in
19 terms of its impact on the environment.

20 Next slide. This is what we call
21 the global solar resource, this is the direct
22 normal that we talked about before plus all

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1 the diffuse light that comes from the sun
2 scattered through the atmosphere. And it's not
3 quite as intense but basically this is the
4 primary resource that we use to evaluate the
5 potential of photovoltaic systems in terms of
6 their production.

7 Now we get into sort of the market
8 factors that have a huge impact on solar
9 deployment and basically it's the Federal
10 Solar Investment tax credit, which basically
11 allows a developer or private owner to take a
12 30 percent tax credit on the plant. For
13 example, a 100 megawatt plant today with
14 thermal storage is probably in the \$550
15 million dollar range in terms of cost. It's a
16 huge benefit to the private industry and it
17 also is a huge benefit in terms of delivering
18 the lowest cost of solar power. It's expected
19 to unfortunately expire at the end of this
20 calendar year.

21 And next slide, just to show you
22 the impact, this is a modeling tool that we

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1 have at NREL that is actually going to be used
2 in the Programmatic EIS. It's a very
3 complicated, hundreds of variables, looking at
4 three or four hundred areas in terms of
5 transmission, load centers, things like that
6 and basically this is our projection over the
7 next 50 years, the model is designed for 50
8 years, and if the investment tax credit goes
9 away we're looking at maybe 6 to 7 megawatts
10 of power that might be developed if that tax
11 credit is gone.

12 If the tax credit remains, next
13 slide, you're looking at in the area of 30,
14 40, 50 megawatts, gigawatts, excuse me, so
15 that's gigawatts of power that could be
16 developed with that solar tax credit.

17 And that's all I've got.

18 FACILITATOR SMITH: Doug caught me
19 off guard because I thought he was going to
20 go longer than that.

21 MR. DAHLE: No yellow card.

22 FACILITATOR SMITH: No yellow card

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1 for Doug. Okay. So we've heard from DOE and
2 we've heard from BLM regarding their specific
3 interests and objectives in preparing this
4 PEIS and then Doug's given us a good overview
5 of the resources of interest and the solar
6 energy technologies that are going to be
7 considered in the scope of the EIS.

8 Now I'm going to give you a little
9 bit of an overview of the NEPA process and the
10 public scoping process just so that everybody
11 understands the purpose of this particular
12 meeting, and then we'll try to get into the
13 comment period as quickly as possible.

14 So the first question, I want to be
15 sure everybody has a good understanding of
16 what is an environmental impact statement and,
17 very briefly, an EIS is a document that is
18 prepared by federal agencies in order to
19 evaluate the possible environmental and
20 socioeconomic impacts associated with some
21 proposed action.

22 And so the EIS document will

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1 identify for the public what the proposed
2 action is, what the possible impacts of those
3 actions and ways to mitigate the impacts. It
4 will also identify any reasonable
5 alternatives to the proposed action and then
6 also assess the environmental socioeconomic
7 impacts of those alternatives and it'll look
8 at short and long term impacts as well as
9 cumulative impacts and then address issues
10 such as the commitment of resources that might
11 be triggered by a specific project.

12 And then, importantly, an EIS is
13 used by the agency to solicit input from the
14 public to consider in their decision making,
15 and then the document reflects back to the
16 public how that input was considered and used.

17 Why is this EIS being prepared?
18 The National Environment Policy Act requires
19 agencies prepare an EIS when they're
20 contemplating any sort of major action -- and
21 major actions are typically defined as those
22 that potentially could result in significant

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1 impacts to the quality of the human
2 environment.

3 And the agencies have determined
4 that establishing broad policies and programs
5 that will impact solar energy development or
6 influence their decisions on solar energy
7 development in a six state study area over a
8 20 year period, constitutes a major action and
9 merits having an environmental impact
10 statement prepared.

11 And, as we've mentioned before,
12 this is a programmatic EIS and it's important
13 to understand the difference between a
14 programmatic EIS and a regular EIS. A regular
15 EIS will evaluate a specific action that's
16 well defined. You usually know where you want
17 to conduct this activity and what the activity
18 entails.

19 But we don't have specific actions.
20 Instead, the agencies are contemplating
21 establishing new programs, new policies, so
22 it's a much broader assessment at a higher

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1 level. We're not looking at individual sites
2 or individual projects. Instead, at a general
3 level we'll be looking at the potential
4 impacts from solar energy technologies and
5 potential ways to mitigate those impacts. So
6 it's very clear that everybody understand the
7 higher level nature of a programmatic EIS.

8 We're in the scoping process. What
9 is scoping? It's the first opportunity for
10 the public to interact with the agencies and
11 provide input and essentially the agencies are
12 asking for input on the scope of what they
13 should consider in this EIS. So they'd like
14 your input on the proposed action. They'd
15 like your input on alternatives that should be
16 considered. They'd also like input on what
17 the significant issues are that should be
18 analyzed. What are the big concerns
19 regarding impacts or resources in the six
20 state study area that you feel might be
21 impacted by solar energy development.

22 They want input on possible

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1 mitigation measures as well as if you're aware
2 of data, possess data that you would like the
3 agencies to consider in the analysis, it could
4 be environmental data, it could be data
5 regarding the solar energy technologies,
6 they'd love to get that. And, importantly,
7 they also want to know who the interested
8 parties are. What constitutes the
9 stakeholders for this contemplated action?
10 And they want to understand what the
11 individual stakeholders' individual issues and
12 concerns are.

13 I've mentioned the proposed action
14 and alternatives and they were described
15 earlier when the folks from the agencies were
16 talking but we'll just review this a little
17 bit quickly.

18 This information comes right out of
19 the Notice of Intent which was published in
20 the Federal Register on May 29th and first of
21 all NEPA requires an agency consider the
22 action or the alternative of taking no action

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1 at all. And that's called the no action
2 alternative. And so of course this
3 programmatic EIS will consider no action. And
4 the best way to describe or understand what no
5 action is, is to put it in the context of what
6 are the agencies proposing. So what is the
7 proposed action? And in this case, as was
8 said before, both the DOE and the BLM are
9 considering establishing new programs that
10 will govern their decisions regarding solar
11 energy development for the next 20 years.

12 And these programs will consist of
13 environmental policies and mitigation
14 strategies, such as best management practices
15 and siting criteria, things that the agencies
16 might require of solar energy development and
17 the projects that they have to make decisions
18 about.

19 And for the BLM they're also
20 considering amending land use plans in the six
21 state study area so that they can adopt and
22 implement the program that they would

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1 establish via this programmatic EIS. So
2 that's the proposed action and so therefore no
3 action, just backing up again, is that the
4 agencies wouldn't establish these overarching
5 programs and they would continue to make
6 decisions about solar energy projects on a
7 case by case basis the way they currently do.

8 Now for DOE, just also to clarify,
9 the program policies and mitigation
10 requirements would apply to projects that are
11 funded by DOE, so these could entail solar
12 energy projects on BLM lands but also projects
13 on other federal lands, state lands, private
14 lands, even tribal lands.

15 For BLM, their program would apply
16 to the decisions they make about projects
17 specifically on lands that are administered by
18 the BLM.

19 And then the BLM preliminarily has
20 identified a third alternative. Right now
21 there is not a third alternative identified
22 for DOE's consideration. The third

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1 alternative for BLM has been loosely coined or
2 named as a limited development alternative and
3 under that alternative DOE would contemplate
4 restricting solar energy development to those
5 projects that are currently awaiting
6 application approval and only to those
7 projects for which BLM deems to have a
8 complete plan of development.

9 So as you can see, the limited
10 development alternative would be a small set
11 of projects going forward and no other solar
12 energy development, and so that would have a
13 far smaller level of development than would be
14 possible under either the proposed action or
15 the no action alternatives.

16 So there's a couple of
17 opportunities in the EIS for the public to get
18 involved. Scoping is the first opportunity
19 and it extends until -- we'll be accepting
20 comments until July 15th close of business.

21 Then there'll be subsequent
22 opportunities. You'll be able to provide

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1 comments on the draft EIS when it's published,
2 and that's anticipated for the spring of 2009.

3 And then about a year later, the spring of
4 2010, the final EIS will be published.

5 We want you all to know about a web
6 site we've developed and the url is shown
7 here. It's a public information center and I
8 urge all of you to go take a look at it, if
9 you haven't already. There's a lot of good
10 information about the NEPA process, about this
11 EIS specifically, about solar energy
12 technologies and the resources.

13 We're going to use that site to
14 post documents related to the EIS, for example
15 the Notice of Intent is available at this time
16 as is BLM's existing solar energy policy. It
17 has information about the schedule and
18 importantly in the context of tonight's
19 meeting there's a comment form where you can
20 go online and enter your comments.

21 And we'll be providing project
22 updates. If you're interested you should sign

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1 up for the e-mail list, then you'll get
2 notifications as things develop on the
3 programmatic EIS.

4 Okay. Now before we jump into the
5 actual commenting process, both BLM and DOE
6 have agreed that it would be appropriate to
7 answer questions at this time. We're just
8 going to take a few minutes to see if people
9 have questions about the material that's been
10 presented and I want to caution you, I'm
11 going to come around with a microphone.

12 We're not going to be able to
13 speculate about what decisions the agencies
14 might make or what their policies will be
15 like, those will be evaluated in the context
16 of the EIS, but rather if you have questions
17 about something that's been presented tonight
18 you want clarification, questions of that
19 nature. So are you guys ready? Okay.

20 UNIDENTIFIED FEMALE 1: How many
21 acres of BLM land are in California only and
22 what percentage or what proportion of those

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1 lands are already subject to a pending
2 application for solar development?

3 MR. BORCHARD: There's 14 million
4 acres of BLM land in all of California. In
5 the Southern California desert area and south
6 coast area there's just under 11 million
7 acres. Of the 125 applications across the six
8 states that BLM already has received, 74 of
9 those applications are in California, 73 of
10 them in Southern California and one up in
11 Northeastern California.

12 Approximately 600,000 acres have
13 been applied for in Southern California.

14 MR. HARVEY: Thank you. I'm Jim
15 Harvey and my question is what is the BLM
16 policy for accepting more than one application
17 for a specific area? For example if an
18 application is denied would there be a
19 procedure for a second application to follow?

20 MR. BORCHARD: Up until the Notice
21 of Intent was published, we were accepting
22 multiple applications stacked on top of one

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1 another on the same geographic spot. Now we
2 have deferred accepting any new applications.

3 I mentioned we had 74 applications, those
4 are 74 applications in California that we call
5 "first in line." We have 22 additional
6 applications that are second in line. In
7 other words, we have 22 of them that have been
8 submitted that are sitting on top of other
9 existing first in line applications.

10 At this time those first
11 applications in line we're moving forward with
12 processing, as was mentioned before in our
13 parallel track, as individual projects,
14 parallel with this programmatic EIS being
15 processed as individual applications for
16 individual projects. Should one of those
17 applications that's first in line be withdrawn
18 or rejected by BLM, the second in line
19 application that has already been filed before
20 the Notice of Intent was filed would then be
21 given the opportunity to start a cost recovery
22 account with BLM and submit a plan of

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1 development and begin processing as an
2 individual project.

3 UNIDENTIFIED MALE 1: Is this
4 working? Did I hear correctly that the
5 programmatic EIS will consider sites in terms
6 of sites that are not suitable versus sites
7 that are best suited?

8 I heard one of the speakers say
9 that and then I heard something that seemed to
10 conflict with that. In other words, will
11 there be an analysis of sites to determine
12 what areas are good and which areas are not so
13 good? And if that's the case then how will
14 those sites that are good be allocated among
15 future applicants?

16 MS. RESSEGUE: If as a result of
17 the programmatic EIS we find that there really
18 is a limited number of acres with high solar
19 energy potential that are really well suited
20 to being developed, we would amend the land
21 use plans for that area to provide for
22 competitive leasing. So companies could file

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1 an application but it wouldn't be treated as a
2 right of way application like we're handling
3 them now; it would be treated as an expression
4 of interest and we would move forward with
5 competitive leasing of that site so that other
6 companies could bid on it and essentially it
7 would go to the highest bidder.

8 UNIDENTIFIED FEMALE 2: I have a
9 question about the parallel process for the
10 existing applications. There are best
11 management practices that are developed
12 through the programmatic EIS for solar
13 projects, are the existing applications that
14 are being processed going to be subject to
15 those best management practices or just the
16 new applications that come in after the
17 programmatic EIS?

18 MS. RESSEGUE: Our goal and
19 intention is to keep processing the
20 applications that we have now and we
21 anticipate that the programmatic EIS is going
22 to take about 22 months. That's our time line

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1 for the programmatic. We are not going to
2 hold up on existing applications and wait for
3 any outcome of the programmatic.

4 So, in other words, if they've gone
5 through their own site specific NEPA we've
6 developed mitigation strategies for that
7 project, the right of way grant will be issued
8 with those mitigation measures included.

9 However, if there are still of this
10 set of applications pending by the time we get
11 done with the PEIS and issue our record of
12 decision, then we would be in a position to
13 adopt the new program and it would be
14 applicable to all of the rights of ways that
15 had not yet been granted.

16 MR. GOODWARD: Back here. Hi, are
17 there plans, or perhaps it's already been
18 done, for a programmatic EIS for wind farms,
19 wind energy in the desert and how would that
20 dovetail with the solar energy projects?

21 MR. BORCHARD: BLM recently
22 completed a programmatic EIS for wind energy.

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1 However, the land use plans in California
2 were not amended as a result of the decisions
3 of that programmatic EIS which, you know,
4 means the decisions in that programmatic EIS
5 at this point do not apply to the BLM managed
6 lands in California.

7 However, the best management
8 practices that were established by that wind
9 programmatic EIS were incorporated into BLM
10 policy and that policy does apply to the
11 agency nationwide.

12 I'm not sure how to explain that
13 distinction but I guess the primary decision
14 in that programmatic wind EIS that California
15 is attempting to unravel and apply to the
16 California desert, is the decision in the
17 programmatic EIS that said wind energy will
18 not be developed on areas of critical
19 environmental concern, a designation that BLM
20 applies to certain lands that possess
21 resources of unique or rare or scarce values.
22 And there's many ACECs or Areas or Critical

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1 Environmental Concern in southern California
2 that we're attempting to interpret the policy
3 and figure out how we're going to apply it
4 here in the California desert.

5 UNIDENTIFIED FEMALE 3: This
6 applies to studying solar radiation, this
7 question and specifically maybe to NREL. What
8 confidence do you have in your all's ability
9 to identify the best sites? And also I
10 noticed that the IM does not really give you
11 time to analyze your own data, your own MET
12 Towers. You go in right into a right of way.

13 So I would imagine that you would
14 study radiation during the time your
15 application is in process.

16 MR. DAHLE: Good question. One of
17 the things -- the source of the solar
18 radiation is based on satellite data and some
19 very sophisticated modeling that's been done
20 where we've put up pyranometers to actually
21 monitor the resource. It is unlike wind where
22 you actually put up a MET Tower for a year to

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1 confirm the resource, the evidence and
2 demonstration of actually putting up
3 pyranometers, and there a lot of stations all
4 over particularly in the Southwest, the
5 confluence is within a few percent in terms of
6 what we predict.

7 And the other thing in terms of
8 siting places high potential, one of the
9 things that is a factor in these high
10 potential lands in a case of lot of these
11 technologies, not so much the photovoltaics or
12 the pole-mounted, is when you're talking about
13 these large parabolic troughs you're looking
14 at one to 3 percent slope so you take the
15 topography as well as the solar resource, a
16 combination of those.

17 UNIDENTIFIED FEMALE 4: Thank
18 you. This programmatic EIS is going to be
19 looking at the need for 10,000 megawatts of
20 solar energy produced. Just the 73 projects
21 in southern California right now with the
22 600,000 acres, that's 123,000 megawatts. Is

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1 there a consideration within the PEIS as to
2 whether or not there is actually a need for
3 the solar energy that would be built, the
4 plant, because if you can't use it you have to
5 throw it away so you just dump it. So is that
6 consideration part of the analysis?

7 MS. RESSEGUE: Thank you. One
8 point about that 10,000 megawatts is it's
9 10,000 megawatts of non-hydro power renewable
10 energy so technically none of it would have to
11 be solar.

12 We are moving ahead with a lot of
13 wind energy and geothermal, to a lesser extent
14 biomass, I don't know what the numbers are
15 there. But we are pursuing, we are authorizing
16 other renewable energy resource uses.

17 But BLM is interested in
18 facilitating solar energy development on
19 public lands as well; it's just we're trying
20 to figure out how to balance that use, which
21 is land intensive, with our other management
22 requirements. But it is not going to be--

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1 Karen talked about our limited alternative and
2 we haven't really put the side boards on what
3 that might be yet, a limited solar energy
4 alternative. But I don't think that BLM would
5 consider no solar energy.

6 FACILITATOR SMITH: In the
7 interests of time we're going to go on to
8 another question.

9 MR. WILKINS: Hold on a second.
10 The way that these solar projects wind up
11 being built, a developer has to have somebody
12 who's buying the power, who wants the power,
13 and generally what happens is a utility will
14 say they need so many megawatts of renewable
15 energy or they need so many megawatts, so a
16 developer will come in and bid on it.

17 So none of these solar projects
18 will be built unless somebody has said they
19 are willing to buy the power at a certain
20 amount and that they want that amount of
21 power.

22 MR. TRAFECANTY: Hello. My

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1 question really relates to the whole issue of
2 desert solar versus distributed generation
3 near the need, I call it DGNN. Why don't we
4 build our solar energy where it's needed?
5 It's not needed out in the Mojave and places
6 like that, it's needed in the city.

7 So what I'm saying is when you
8 build a huge plant you're lining the utility
9 company's pockets, when you're building a
10 transmission line you're lining the utility's
11 pockets. Why don't you just give an incentive
12 like Berkeley and San Francisco and Sacramento
13 are doing, and other countries are leading
14 this whole area as far as solar dependence,
15 all the manufacturing's going to other
16 countries.

17 FACILITATOR SMITH: I think that's
18 a comment and I hope when we have the comment
19 period you'll come up and make it. We're going
20 to take just one more question and then we'll
21 get into the comment period.

22 UNIDENTIFIED FEMALE 5: Thank you.

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1 My question has to do with a portion of the
2 Federal Register notice which highlighted that
3 BLM was going to, and I'm going to quote,
4 "consider an analyzed relevant climate change
5 impacts in land use plans and associated NEPA
6 documents, including the anticipated climate
7 change benefits of solar energy."

8 I was wondering if there was
9 someone that could elaborate on the basis for
10 that analysis and what it will cover? What's
11 anticipated?

12 FACILITATOR SMITH: Well, I guess
13 I'll try to answer that. I think that what is
14 meant by that is that in addition to assessing
15 environmental impacts, adverse environmental
16 impacts of the solar energy development, we
17 will also attempt to assess the potential
18 impacts of solar energy development in terms
19 of the reduction of greenhouse gas emissions
20 and, ergo, draw some conclusions or
21 speculations about the climate change impacts.

22 Okay. I think we're going to move

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1 on into the comment phase and I appreciate
2 your taking the questions and everybody's
3 cooperation.

4 So there are three different ways
5 that you can provide scoping comments. The
6 first is to attend a scoping meeting like the
7 one this evening and make comments. Second
8 is via the online comment form on the web site
9 and the third one is via mail. And we will be
10 accepting scoping comments to repeat through
11 July 15th close of business.

12 If you have written comments to
13 submit, as I mentioned there is a comment form
14 on the web site and if you want to attach
15 files it can take up to 10 megabyte file size
16 attachment. And the specific address is right
17 there, but you can navigate to it from the
18 main page.

19 You can also fill out one of these
20 paper comments forms that were handed out at
21 the meeting tonight. Just fill out the front.

22 There's not a lot of room for your comments

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1 but if it fits on there and you want to hand
2 it in to one of us this evening, anybody
3 wearing a badge will take those. Or you can
4 take it home and fill it in and then fold it
5 over, tape it and mail it to the address on
6 the back. That's the same address that's
7 showing here. You don't have to limit
8 yourself to this small space, you can send us
9 anything in writing to that address, including
10 supplemental information, reports, other
11 things you want us to have.

12 And I should mention too when you
13 registered I mentioned that the web site has
14 an e-mail list; when you signed in one of
15 these registration forms if you gave us your
16 e-mail address you'll automatically be
17 enrolled in the e-mail list, unless you don't
18 want to be and let us know that. Okay. So
19 that's how to submit written comments.

20 And now how to submit your oral
21 comments this evening, these are the ground
22 rules. We have asked people to sign up,

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1 register that they want to speak and we're
2 going to call them up to make their remarks in
3 the order in which they signed up. And after
4 we get through all the people who have signed
5 up, we'll then open the floor if there's
6 somebody who has been motivated while they've
7 been here this evening, decided they do want
8 to speak, they'll have an opportunity.

9 When you're making your comment
10 we'd like you to state your name and, if you
11 have one, your affiliation. And it's really
12 important that you speak into the microphone
13 so that our reporter can capture everything
14 you're saying.

15 We're giving you a three-minute
16 limit. Because this is such a full house
17 we're going to adhere to that three-minute
18 limit and we want you to limit your comments
19 to the scope of the programmatic EIS and, as
20 we mentioned, we're no looking at sites,
21 specific sites, specific projects, so we're
22 not seeking your input on specific projects or

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1 specific locations. What we really want is
2 your input on the programs that these two
3 agencies are contemplating developing.

4 And if you have any written copies
5 of your remarks you want to hand those in, if
6 you have any supplemental material hand those
7 in to me or one of the other staff working
8 this evening that would be great.

9 The court reporter will produce
10 transcripts of the meeting, each scoping
11 meeting, and then those will be posted on the
12 web site at some future date. Okay. I
13 think that's about it and just a few other
14 little rules. If you're speaking and you see
15 a yellow card that means you have 30 seconds
16 left. And then if you see the red card that
17 means your three minutes is up.

18 If you have more than three
19 minutes' worth of comments I'm going to ask
20 you to stop at three minutes when I show the
21 red card. When we get through everybody else
22 who's registered or become motivated to speak

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1 you can come back up, but it is a three
2 minute limit. All right.

3 The first speaker that we have
4 registered to speak is Wayne Hoffman. And
5 just to facilitate transition between the
6 three minutes, after that we have Dai Owen and
7 Jim Harvey. And if you can just come to the
8 podium that would be great.

9 The transcripts will be posted on
10 the web site along with these slides, along
11 with copies of the posters and other
12 materials. Go ahead.

13 MR. HOFFMAN: Okay. Good evening.
14 My name is Wayne Hoffman. I'm the
15 environmental affairs director for Optisolar.
16 We're a major PV manufacturer developer
17 owner/operator of utility scale solar plants
18 in California. We also manufacture at two
19 sites, including a major site that we're just
20 putting together in Sacramento.

21 I have only four or five comments
22 tonight. I'll be brief. I don't have written

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1 comments with me but I will send these in by
2 the web site and e-mail.

3 My first comment is I do encourage
4 the folks doing the EIS, the BLM, to consider
5 broadening your transmission assessment to
6 include other federal agencies, particularly
7 in situations where other federal agencies,
8 such as the National Park Service, might
9 already be impacted by an existing
10 transmission line and where proposed
11 transmission corridors may skirt a national
12 park or wilderness area or military base. We
13 think that these situations in particular are
14 important.

15 I encourage you to set definitive
16 time lines for project level EIS applications
17 in the PEIS and from the submittal of the pod,
18 the application, through the rod process so
19 that we have an understanding of how long this
20 process is going to take.

21 I propose that you consider a more
22 flexible approach to the use of certain

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1 environmentally sensitive areas in the PEIS,
2 in particular the DWMA's, the Desert Wildlife
3 Management Areas. We have fairly definitive
4 scientific evidence that some of these areas
5 don't have solid science behind them.

6 We think that there are specific
7 measures that could be taken to enable a
8 proposed applicant to actually survey and
9 evaluate the science with regard to the
10 existing density and the sensitivity of
11 certain DWMA areas, certainly in some cases
12 along the borders. We know for a fact that
13 there are certain areas where the Mojave
14 ground squirrel conservation areas have been
15 designated as basically off limits for solar
16 and we know for a fact that some of these
17 areas have very weak science behind them.

18 I would finally like to encourage
19 you to recognize key differences between how
20 PV projects, photovoltaic and CSP thermal
21 project approvals are approved, especially as
22 it relates to the CEC AFC process. That's a

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1 totally different process where the submittal
2 of the AFC is basically equivalent to the
3 submittal of an EIS. In the case of a solar
4 project, a PV project where we do not have CEC
5 approval -- and I'll wrap this up in just a
6 second -- we encourage you to consider a
7 different approach. Thank you.

8 FACILITATOR SMITH: Thank you. I
9 appreciate that you mentioned if you make
10 comments orally at the meeting you can
11 certainly comment online or send in written
12 comments later.

13 MR. OWEN: Hi, my name is Dai Owen
14 and I am here to represent enXco. We are a
15 renewable energy company that develops, builds
16 and manages renewable energy projects. In the
17 more than 20 years since enXco was established
18 in 1987, our focus on renewable energy has
19 made us an industry leader in wind project
20 development and a premier provider of
21 operation and maintenance services throughout
22 North America.

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1 EnXco understands the inherent
2 impacts associated with development of solar
3 energy projects on public lands and seeks to
4 design, build and own the most effective solar
5 projects in the best locations.

6 We understand the desire of BLM to
7 defer new solar applications at this time in
8 order to avoid inconsistencies between the
9 PEIS and future projects. However, we're
10 greatly disturbed at how the closure was
11 executed without prior knowledge by interested
12 parties.

13 The PEIS will be most effective if
14 it flexibly identifies where solar projects
15 and transmission for solar can and should be
16 located, facilitates future site-specific
17 environmental reviews to make them more
18 efficient and predictable, articulates best
19 management practices that can be followed by
20 our solar developers, allows near term
21 investment in solar energy projects,
22 coordinates any designation of additional

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1 transmission corridors with RETI and a similar
2 WGA renewable energy zone project, refers in
3 detail to local and regional land use plans --
4 a good example of this was the Forest Service
5 road-less rule PEIS -- amends land use plans
6 to facilitate environmentally responsible
7 solar development and ease the backlog of
8 applications.

9 EnXco further believes that the BLM
10 should continue to process pending right of
11 way applications for solar energy using
12 transparent criteria.

13 The PEIS should consider solar
14 energy and transmission development on federal
15 lands other than those managed by the BLM.
16 The BLM should explain how future site-
17 specific environmental reviews will be
18 facilitated by the work of the PEIS.

19 The PEIS and BLM's land use plans
20 need to be flexible documents that can adapt
21 to changes like climate change, technology
22 improvements and shifting priorities.

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1 I'd like to close by saying that we
2 believe the PEIS is a unique opportunity to
3 evaluate the benefits and environmental issues
4 surrounding solar development and to bring
5 people together to promote such development in
6 the most environmentally sustainable manner
7 possible.

8 We look forward to continuing to
9 work with the BLM and other interested parties
10 in the PEIS. Thank you.

11 FACILITATOR SMITH: After Jim
12 Harvey we will have Holly Gordon and Janet
13 Gilmore.

14 MR. HARVEY: Thank you. I'm Jim
15 Harvey with the Alliance for Responsible
16 Energy Policy and we're in Joshua Tree,
17 California.

18 I'd like to start by expressing on
19 behalf of the Alliance for Responsible Energy
20 Policy our most sincere gratitude to all the
21 participating agencies for initiating this
22 much needed solar development programmatic

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1 EIS.

2 AREP believes the utility scale
3 solar exploitation of our public lands in the
4 six western states identified in this PEIS is
5 the most critical issue facing the future
6 sustainability of these very precious land
7 resources. A comprehensive and transparent
8 study process is imperative and most
9 appreciated.

10 One of the most pressing concerns
11 the alliance has regarding utility scale solar
12 projects, as with all other renewable energy
13 and transmission projects, is what appears to
14 be a lack of regard for the sanctity of
15 wilderness areas and critical environmental
16 concern areas by some of the project
17 applicants.

18 A representative for Solar
19 Millennium, for example, has expressed
20 frustration over the premise that these land
21 designations might preclude them and others
22 from financially feasible utility scale

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1 development. The Los Angeles Department of
2 Water and Power has applied for a right of way
3 to build a 500 kilovolt transmission line
4 right through the middle of an ACEC on the
5 western edge of Joshua Tree National Park of
6 all places.

7 Incidentally, LADWP has deceptively
8 named their project Green Path North. There
9 also seems to be some confusion among some of
10 the members of the environmental working group
11 participating in the California Renewable
12 Energy Transmission Initiative, the RETI
13 process, regarding the BLM's development
14 eligibility recommendation for these land
15 designations.

16 AREP strongly urges that these
17 designated and proposed wilderness areas and
18 ACECs receive uncompromised complete
19 protection from development and first and
20 foremost be excluded from any eligibility for
21 solar, wind and transmission line development.

22 We must draw a line in the sands of these

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1 critical land designations and BLM should make
2 these recommendations on behalf of we, the
3 people, the true owners of these lands.

4 I realize the solar PEIS has
5 excluded these designations from the study but
6 I feel you should be aware of the debate
7 that's occurring outside of the study.

8 I would also like to enlighten the
9 participating partners of this PEIS on what we
10 perceive to be very solemn and somber feelings
11 among an extremely large segment of the
12 members of the national environmental
13 organizations regarding the sacrifice of
14 pristine publicly owned lands for solar
15 exploitation.

16 AREP learned this first hand when
17 addressing the Sierra Club California Nevada
18 Desert Committee just last month. Our
19 presentation was very critical of the Sierra
20 Club and NRDC staff's apparently willingness
21 to accept that scraping and permanently
22 destroying potentially over a million acres of

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1 undeveloped pristine public lands may be
2 necessary. AREP believes no environment
3 should be compromised or sacrificed under a
4 questionable banner proclaiming to save it.

5 Our message was very well received
6 by the club members and activists who
7 overwhelmingly agreed. I'll stop here and if
8 I could pick up later, thank you.

9 FACILITATOR SMITH: Okay. Is
10 Holly Gordon here?

11 MS. GORDON: Good evening. My name
12 is Holly Gordon, I'm vice president of
13 legislative and regulatory affairs for AUSRA.
14 AUSRA is a large-scale solar thermal energy
15 company based in Palo Alto, California. We're
16 a privately funded start up company that has
17 been in the United States for about 18 months.

18 We have a contract with Pacific Gas
19 and Electric Company to build a 180 megawatt
20 project in central California. Although this
21 project will be located on private land we are
22 currently looking to build projects on public

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1 land in California and throughout the
2 Southwest.

3 Thank you for holding the meeting
4 and for giving us an opportunity to provide
5 comments.

6 While we applaud BLM and DOE for
7 their leadership in helping to promote the
8 development of solar energy on public lands,
9 there are several aspects of the Notice of
10 Intent that require revision if the
11 programmatic EIS is going to be a useful
12 document.

13 First, we feel that it is
14 inappropriate and unnecessary to freeze all
15 right of way applications during the
16 preparation of the programmatic EIS. A large
17 scale solar thermal industry is just getting
18 started in the United States. Currently there
19 are only two trough projects on line, one in
20 Southern California and one in Nevada.
21 Freezing new applications will significantly
22 stunt the growth of the industry, potentially

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1 killing the industry before it effectively
2 gets off the ground.

3 We recognize that BLM is short on
4 resources. However, a full freeze on right of
5 way applications is simply not the answer.

6 In response to the question that
7 was asked earlier regarding the 73
8 applications that had been filed in Southern
9 California, keep in mind that getting a right
10 of way and getting approval on BLM land is
11 just one small part of building these
12 projects. There's hundreds of hoops that we
13 have to go through to get these projects off
14 the ground and I assure you that those 73
15 applications will only result in a few
16 projects.

17 Second, BLM and DOE should allow
18 solar energy development with appropriate
19 restrictions on environmentally sensitive
20 lands. There's no reason to categorically
21 exclude ACECs or Areas of Critical
22 Environmental Concern in other special

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1 management areas that may be vital to solar
2 energy development.

3 As BLM has repeatedly recognized,
4 a certain level of development can occur in
5 managed areas with appropriate best management
6 practices and mitigation measures.

7 Third, the programmatic EIS should
8 consider solar energy and transmission
9 development on federal lands other than those
10 managed by BLM. Many lands administered by
11 other agencies, such as the Department of
12 Defense and the Forest Service, may be
13 suitable for solar energy development. A
14 holistic approach is especially important for
15 transmission siting.

16 The programmatic EIS should review
17 other lands, or least set forth processes for
18 doing so with other agencies.

19 Finally, the programmatic EIS needs
20 to provide clear criteria for efficiently
21 processing future project-specific
22 environmental reviews. In particular an

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1 explanation of how future site-specific
2 environmental reviews will be truncated due to
3 the programmatic EIS as necessary.

4 We sincerely appreciate BLM and
5 DOE's efforts and look forward to working with
6 the agencies as they move forward. Thank you.

7 FACILITATOR SMITH: After Janet
8 Gilmore if she's here, is that Janet Gilmore?
9 Okay. Next speaker signed up is John
10 McFarlane. After John we'll have Lee Wallach
11 and then Rachel Gold.

12 MR. MCFARLANE: Good evening.
13 John McFarlane, AREP, Joshua Tree, California.
14 The Alliance for Responsible Energy Policy
15 came into existence in January 2008 to study
16 the impact of the 2005 Energy Policy Act. It
17 quickly became apparent to us that we must
18 look beyond single projects that add
19 centralized energy generation and more long
20 distance transmission lines. Therefore, we
21 are very grateful the Department of Energy and
22 BLM have acknowledged a very real need for a

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1 cumulative review of the projects planned and
2 applied for within California and other
3 western states. We thank you for opening this
4 transparent process.

5 In the small town of Yucca Valley
6 we have seen a great deal of dissent over
7 development projects, much more over the last
8 two years. Citizens are becoming more and
9 more aware that development does not always
10 mean growth. Sometimes development tears
11 down much more than it builds up.

12 When I hear citizens arguing
13 against growth and development from an
14 emotional base I think back on some scientific
15 theories that I've read. I find myself
16 wanting them to think back to 1960 and "Chaos
17 Theory" by Edward Loren. While trying to
18 describe systems that are apparently
19 disordered, the chaos theory actually ended up
20 finding the underlying order in apparently
21 random data.

22 I'd like to quote a scientist who

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1 knows much more about the theory than I. "The
2 flapping of a single butterfly's wing today
3 produces a tiny change in the state of the
4 atmosphere. Over a period of time, what the
5 atmosphere actually does diverges from what it
6 would have done. So in a month's time a
7 tornado that would have devastated the
8 Indonesian coast doesn't happen, or maybe one
9 that wasn't going to happen does." Ian
10 Stewart, "The Mathematics of Chaos."

11 I believe the theories within
12 quantum physics and string theory which have
13 deepened our understanding of the inter-
14 connectedness of the universe, point out the
15 very serious depth with which we must study
16 the actions we take today in regard to the
17 effects they may cause tomorrow.

18 If we are not really sure of the
19 long term effects, we should not take the
20 actions.

21 Most inventions and medicines on
22 earth have been developed after observation

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1 and imitation of nature and natural processes.

2 If we cleared raid and build our solar fields
3 across the Mojave Desert in the rush that we
4 appear to be in, what will the impact be on an
5 extremely vulnerable ecosystem? Some reports
6 indicate that in excess of a million acres
7 will be built out in the next five years.
8 There has never been such a rapid build up of
9 any ecosystem that size.

10 Clearly, there is a legitimate
11 reason that deserts are included as a part of
12 the overall balanced ecosystem of the world.
13 I do not think that we have taken the proper
14 time and effort to study the issues. I would
15 hate to see so much destruction of a vital
16 ecosystem which might be the laboratory where
17 we develop much-needed heat and drought
18 resistance systems and processes.

19 Another thing to think about when
20 you cleared raid desert growth is, in
21 California because of overgrowth and
22 pollution, whenever we get rid of native

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1 plants we get non-native grasses come in which
2 cause greater wildfires.

3 FACILITATOR SMITH: I've lost
4 track of where I am. Lee? Okay.

5 MR. WALLACH: Hi, thank you. My
6 name is Lee Wallach. I represent a company
7 called Solel, a solar thermal company here. I
8 also wear a couple of other hats that are
9 critical. I am on the board of the League of
10 Conservation Voters, I am with the Inter Faith
11 Environmental Council, and have been an
12 environmentalist and a very active
13 environmentalist for the better part of my
14 life.

15 I really appreciate and applaud BLM
16 and DOE for taking this step. It's a critical
17 step, it's an important step for all of us
18 here. This is also a unique opportunity for
19 us to be able to move forward in a way that
20 would have been difficult had you not taken
21 this opportunity to go forward.

22 This is going to allow us to really

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1 outline the future of energy for our country,
2 where transmission lines obviously land will
3 be. This will also allow us in this country
4 to substantially solidify where this country's
5 going and allow us to substantially reach for
6 investment and provide for really some
7 certainties in the process which is
8 important. If we are going to have
9 investments in renewable energy, we need to
10 have some reliability in the process and this,
11 I think, will allow for that and that's
12 critical.

13 We see that in some countries, we
14 haven't seen that yet here and we do need that
15 desperately.

16 The reviews being efficient and
17 predictable will also allow us to move forward
18 and create more renewable energy and
19 investment. So I applaud the process moving
20 forward.

21 I would also say, and I've heard
22 this earlier, I am generally concerned that we

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1 are worried about an onslaught of renewable
2 energy projects. I've heard number, seventy
3 this, seventy that. I think that we have to
4 be very, very careful about not reaching far
5 enough. We have an opportunity here to
6 replace coal-burning, even clean coal-burning
7 plants. We have an opportunity here to move
8 towards a renewable future and if we don't
9 take that opportunity we're going to be in
10 real trouble.

11 Some of the comments you've heard
12 from some of my colleagues are critical. I
13 think it is unnecessary to freeze existing
14 right of way applications or new right of way
15 applications I should say. I don't think we
16 need to do that. A better policy choice is to
17 pick certain areas that are critical and maybe
18 freeze them there.

19 I think you should have appropriate
20 restrictions on environmentally sensitive
21 lands. There's other things that will be
22 outlined through this process, other areas of

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1 concern. I hope that you make appropriate
2 changes looking at these written comments and
3 our comments throughout this week as you're
4 going through the process, not waiting for the
5 process to end but maybe change them on the
6 front end. Thank you.

7 FACILITATOR SMITH: Next speaker
8 is Rachel Gold and then I'm going to have to
9 make my apologies in advance, I'm going to
10 mispronounce the names I'm sure. After that
11 we'll have D'Anne Albers and then Donna and
12 then Larry Charpied? That got a laugh.

13 MS. GOLD: Good evening. My name
14 is Rachel Gold and I'm here representing Solar
15 Millennium. We're a solar thermal developer
16 that is based in Berkeley, California. We've
17 been in California since 2005 and we've been
18 developing solar thermal projects throughout
19 the Southwestern United States.

20 Thank you for the opportunity to
21 comment this evening and I want to thank BLM
22 for putting forward this PEIS. I think it's

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1 going to be a helpful process for us to
2 evaluate the benefits and environmental issues
3 of solar development and bring people
4 together to promote such development in an
5 environmentally sustainable manner.

6 We believe that the PEIS can and
7 will be a useful document only if it flexibly
8 identifies where solar projects and
9 transmission lines can and should be located,
10 allows for near term investment in solar
11 energy projects, makes future site-specific
12 environmental reviews more efficient and
13 predictable, coordinates with state programs
14 and initiatives and sets forth clear processes
15 for dealing with new developments and changes.

16 I'd also like to reiterate the
17 comments of my colleagues that we believe it's
18 inappropriate and unnecessary to freeze all
19 new right of way applications and that there
20 are other policy choices that might reflect
21 the needs of BLM and DOE who are short on
22 resources to avoid inconsistencies with their

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1 PEIS in future management prescriptions and
2 allow for some new applications in certain
3 restricted areas.

4 We also -- I'm pleased to hear
5 tonight that pending right of way applications
6 will continue to be processed and I'd like to
7 encourage BLM to process those on a
8 reasonable, consistent and using a
9 transparent process.

10 I'd also like to reiterate that we
11 think that it is appropriate for some solar
12 energy development with restrictions to occur
13 on environmentally sensitive lands. And on
14 that note I understand that the NOI excluded
15 the entire California desert conservation area
16 and that this was an error. I'd like to make
17 sure that that is corrected.

18 We don't believe there's a reason
19 to categorically exclude other special
20 management areas that might be vital to solar
21 energy development as BLM has repeatedly
22 recognized a certain level of development can

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1 occur in managed areas with appropriate best
2 management practices and mitigation measures.

3 And I'd like to conclude by saying
4 that we just want to be a part of creating a
5 PEIS that is comprehensive, transparent and
6 flexible and that the PEIS should expedite
7 site-specific NEPA reviews in the end and
8 recognize that solar energy development and
9 environmental protection can work together and
10 provide clear standards and processes for
11 stakeholders and cooperating agencies. Thank
12 you.

13 MS. ALBERS: Good evening. My
14 name is D'Anne Albers and I'm a resident of 29
15 Palms, California and a desert associate for
16 Defenders of Wildlife.

17 Defenders of Wildlife has over half
18 a million members, of which 100,000 members
19 are in California. Many of those members are
20 here tonight and we will be attending other
21 meetings. We will be submitting extensive
22 written comments as well.

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1 First, I would like to thank the
2 Bureau of Land Management for their open
3 process in the renewable energy rush in the
4 Mojave Desert. Also for realizing that there
5 is a need for an analysis of the cumulative
6 impacts of these power plants.

7 The Bureau of Land Management has
8 the enormous task of managing our public
9 lands. Much of that land is in our desert
10 regions. Those of us who live or recreate in
11 the desert are aware of the fragile balance of
12 life in the desert.

13 It is home to numerous plants and
14 animals that are found nowhere else. These
15 plants and animals have adapted over thousands
16 of years to this harsh environment. They are
17 facing enormous pressure now from encroaching
18 development, military expansion, renewable
19 energy plants and climate change.

20 Defenders of Wildlife strongly
21 supports renewable energy. However, we urge
22 that in the quest for renewable power the

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1 design of these projects be in the most
2 sustainable manner possible.

3 There's much left to be done with
4 the conservation of power, providing tax
5 incentives for personal business use, the
6 utilization of commercial rooftop photovoltaic
7 installations, siting energy plants close to
8 where it will be used and the use of the most
9 current technologies available.

10 Defenders thanks BLM for
11 identifying areas for exclusion as a starting
12 position. We also thank BLM for halting this
13 rush to turn the Mojave Desert into a sea of
14 mirrors without stakeholder input.

15 As a participant in the Renewable
16 Energy Transmission Initiative, Defenders has
17 seen the rush to get these areas designated as
18 acceptable for renewable energy plants. This
19 process is occurring without the participation
20 of local governments, county governments,
21 U.S. Fish and Wildlife Service and many other
22 concerned groups.

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1 Defenders understands the
2 California goals of the Energy Act of 20
3 percent renewable by 2010, but what would
4 society say if we were to look back on the
5 placement of our renewable energy resources,
6 like solar in the Mojave, and see that their
7 site selection and transmission lines had
8 destroyed the very plants, animals, habitats
9 and quality of life that we are trying to
10 protect. Thank you.

11 FACILITATOR SMITH: Diane and
12 Larry? Okay. I guess they're not here and
13 I'm sure I mispronounced their names.
14 Charpied? And they're not here? Okay.

15 The next speaker signed up is
16 Dennis or Denise Trafecanty. Anybody here?
17 I apologize for-- Thank you.

18 MR. TRAFECANTY: Hi, I'm Dennis
19 Trafecanty. I came up here from San Diego,
20 found out that there's a meeting in El Centro
21 but that's okay I'm still here.

22 You said it right, Linda, the

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1 public own these lands and you can be assured
2 that we will be here to track the studies that
3 are being conducted, the public, I am the
4 public, I am not affiliated. We do have a
5 foundation down in San Diego. You know, when
6 you get all these developers and utilities
7 together I could sense a lot of aggressiveness
8 in this room to get things going. Let's line
9 the pockets like I just said.

10 Down in San Diego our utility's
11 trying to run right through the gut of the
12 largest state park in California with a
13 transmission line. We don't think it'll
14 happen but they're trying to do it. So
15 transmission is like an antiquated technology
16 in my mind, and I believe in a lot of others.
17 The two things that really helped us during
18 the disastrous October 2007 wildfires were
19 UCSD's, University of California San Diego's
20 combined heat and power plant and some Mexican
21 power.

22 The nuclear power plant was down,

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1 the transmission lines had to be shut down.
2 The other transmission line we have in south
3 county was down. You know we really need power
4 wherever we're using it and it's not out in
5 the Mojave Desert.

6 I really thank you for having these
7 meetings. You're going to be seeing us at all
8 these meetings, several of us. I hope to
9 bring the desert experts because we're going
10 to insist that you really look at what's going
11 on in the desert, including the wildlife and
12 the ecosystems and the flora and the fauna.
13 We've been through it for two years.

14 By the way, I hope when you
15 consider solar systems that you look to see if
16 they can even work, like the Stirling thing to
17 me is a big joke. There's six of them, I
18 started working on this project two and a half
19 years ago. There's six of them in Sandia Labs
20 in New Mexico. The same six are still there
21 and we're talking here in this room about
22 commercial production of six units. Southern

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1 Cal. Edison's backed away from it. SDG&E is
2 using it to try to get a power line through
3 the state park.

4 What about our water resources?
5 What about all that you're going to use to
6 clean these mirrors and stuff like that? What
7 about all the chemicals that you're going to
8 use to put that steel in the ground? That's
9 going to affect the wells. It might dry the
10 wells up.

11 You're going to be using natural
12 gas during down days. I've heard that said.

13 What about greenhouse gas
14 emissions? In some cases with the steel
15 you're putting in the ground and the plants
16 that you're going to be generating power,
17 you're going to have a negative greenhouse gas
18 emission effect.

19 Consider Bill Powers' San Diego
20 smart energy 20/50 plan in San Diego. That's
21 how you get distributed generation near the
22 need. We don't need transmission lines any

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1 more.

2 FACILITATOR SMITH: Thank you.
3 The next two speakers are Ann Garry and then
4 Sara Viola.

5 MS. GARRY: Good evening. My name
6 is Ann Garry and I'm with the Alliance for
7 Responsible Energy Policy, Joshua Tree,
8 California.

9 It's hard for some of us to
10 comprehend the fragile ecosystem of the
11 desert. General George Patton used many parts
12 of the Mojave Desert as training grounds and
13 military camps. After 50 years many of the
14 old traces of tank tracks are gradually
15 vanishing but in some areas, such as flats
16 that rarely flood, the scars are clearly
17 visible.

18 As a former employee of Joshua Tree
19 National Park I am a witness to this impact.
20 While traversing one of our tortoise plots in
21 the Pinto Basin, we came across those same old
22 tracks and were amazed to find that they were

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1 50 years old and still very visible.

2 The Alliance for a Responsible
3 Energy Policy, AREP, would like to take this
4 opportunity to thank the BLM for the
5 transparent process the agency has
6 established.

7 Additionally, we are most
8 appreciative that BLM listened when we and
9 others expressed the need for BLM to conduct a
10 comprehensive and cumulative analysis of the
11 socioeconomic and environmental impacts of all
12 the applicants for concentrated solar and wind
13 farm projects.

14 AREP also appreciates BLM's wise
15 decision to defer new applications until your
16 comprehensive assessment is completed.

17 AREP is seriously concerned that
18 BLM's evaluation of alternative management
19 strategies will fail to give just and due
20 consideration to the outstanding potential
21 that distributed energy and demand side
22 management can have upon the need for remote

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1 concentrated solar projects that necessitates
2 new and dangerous transmission lines.

3 AREP remains deeply concerned about
4 BLM's stated agenda to expedite environmental
5 analysis for site-specific projects in the
6 future and too quickly deploy solar energy
7 projects.

8 The concerned citizens of AREP and
9 many others you will hear from are not
10 impeding responsible progress as some have
11 suggested. Instead, we seek to educate and
12 implore the BLM and the DOE to consider what
13 current policy seeks to expedite as 1970s big
14 solar and 19th century transmission technology.

15 Simply stated, these archaic technologies do
16 not constitute progress or a responsible
17 energy policy. Thank you.

18 MS. VIOLA: Sara Viola of the
19 Alliance for Responsible Energy Policy, Joshua
20 Tree, California. This is Part B.

21 AREP is cognizant that BLM's charge
22 does not include developing national energy

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1 policy. However, BLM has partnered with DOE
2 and is therefore in approximate position to
3 implement policy change and development.

4 Consequently, AREP encourages BLM
5 to modify its cumulative study to include a
6 comparative analysis of the proposed 125
7 concentrated solar plants with the equivalent
8 output of photovoltaic energy generated at
9 point of use.

10 BLM must consider all of the cost,
11 damage and risk associated with the 125
12 proposed concentrated solar plants and the
13 necessary transmission lines such as (1)
14 destruction of the desert ecosystem; (2)
15 depletion of water resources; (3) the
16 viability of air cooling exhaust steam; (4)
17 fossil fuel burning at hybrid solar plants;
18 (5) soil and reclamation issues; (6)
19 greenhouse gas emissions from production and
20 transporting of materials; (7) overall effect
21 on the national and planetary ecosystems; (8)
22 cost and efficiency of transmission lines; (9)

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1 increased fire risk and (10) light heat funnel
2 effect. These concerns will be addressed in
3 more detail in our written submission.

4 Such a comparative analysis is very
5 likely to prove that substituting urban and
6 suburban photovoltaic energy generated at
7 point of use for remote concentrated solar
8 plants can and will meet Arizona, California,
9 Colorado, Nevada, New Mexico and Utah's energy
10 needs while fully mitigating all environmental
11 impacts associated with the remote solar
12 energy production.

13 AREP encourages BLM to keep in mind
14 that Germany and Spain are currently
15 installing 2,000 megawatts of photovoltaic
16 energy per year.

17 AREP is confident that when BLM
18 completes not only a cumulative but
19 comparative analysis, the agency will conclude
20 that current energy policy is taking our
21 nation in the wrong direction. Current energy
22 policy favors an archaic system of remote

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1 generation and long distance transmission.
2 This approach is costly, dangerous and
3 inefficient. Generating energy at the point
4 of use, or very near point of use, is less
5 expensive, less dangerous and kinder to the
6 surrounding environments than overall
7 ecosystems currently in our nation's growth,
8 and the photovoltaic industry suffers from a
9 lack of venture capital.

10 Entrepreneurs need assurances that
11 photovoltaic demand is strong enough to
12 justify their investment. When energy policy
13 favors locally generated energy systems,
14 photovoltaic demand will increase rapidly,
15 thus investment capital will follow. The
16 competitive spirit of our marketplace will
17 figure out ways to rapidly provide less
18 expensive and more efficient photovoltaic
19 systems to consumers. New local energy
20 generating products will move from research
21 and development laboratories to our homes and
22 buildings at the rapid pace this nation is

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1 capable of achieving. Thank you. Maybe I'll
2 continue later.

3 FACILITATOR SMITH: Thank you.
4 Okay. The next speaker signed up is Josef
5 Eichhammer and then that will be followed by
6 Roger Johnson. Is Josef here?

7 MR. EICHHAMMER: Yes, I'm here.

8 FACILITATOR SMITH: Okay. Great.

9 MR. EICHHAMMER: Hello, I am Josef
10 Eichhammer from Solar Millennium and I am
11 heading up our subsidiary here in the U.S. As
12 you can probably hear I am German and our
13 parent company is from Germany.

14 We are in the solar business for
15 ten years but our people have been involved in
16 building solar power projects already 20 years
17 ago and it has been mentioned before that
18 there is a Kramer Junction power plant and the
19 Harper Lake power plant in the Mojave Desert
20 and our engineers have been involved in these
21 projects already 20 years ago.

22 Currently but after these 20 years

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1 there was less development in the U.S. and we
2 have concentrated on other countries, like in
3 Spain, and it is remarkable I think to see
4 that especially European companies, us but
5 also others and especially Spanish companies,
6 have developed an industry for solar thermal
7 power plants.

8 There's a big industry in heat
9 collection and demands in the steel
10 structures, in steam turbines, for example,
11 Siemens has a backlog of 30 turbines currently
12 and I think, and as you have rightly said at
13 the beginning, you have the best solar
14 resource of the world and why cannot this
15 industry be kept in this country and built up
16 in this country.

17 You have made a couple of comments
18 regarding the energy policy. I mean you have
19 a renewable portfolio standard in many states
20 like in California, in Nevada, in Arizona for
21 example but also in others, and I think the
22 conclusion to enact this renewable portfolio

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1 standard was to make a change. There is a
2 climate change and I think we have to address
3 it to a certain extent and this technology can
4 address it.

5 And there have been made comments
6 with respect to the footprint of such power
7 plant. Our power plants, solar thermal,
8 parabolic trough power plants have a footprint
9 which are smaller than for example wind power
10 plants or, for example, hydro-power plants.
11 So I think we can provide sustainable and also
12 economical power for this country.

13 I would like to conclude also with
14 a question. I mean everybody speaks about
15 climate change and how we shall address that.

16 I think we cannot close our eyes and
17 therefore I think this is a good solution --
18 parabolic trough power plants which can also
19 have a very beneficial effect on the economy
20 but also on the climate.

21 One thing I would like to address
22 in addition and Rachel from our company has

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1 taken already the very good points so would
2 like to say one thing at the end. We see a lot
3 of speculation, we see lots of speculators out
4 there who are making applications and we both
5 would like to see that the process
6 differentiates for that and that there is a
7 differentiation between the real projects and
8 the speculators. Thank you very much.

9 FACILITATOR SMITH: Thank you. We
10 have Roger Johnson next. Then Laura Crane.

11 MR. JOHNSON: Good evening, I'm
12 Roger Johnson with the California Energy
13 Commission and the energy commission is going
14 to be working as a cooperating agency with the
15 BLM and DOE on this programmatic EIS so I just
16 wanted to identify myself tonight and to make
17 that known and just to advise the group that
18 essentially we will be working to coordinate
19 all the efforts that are going on in
20 California today.

21 The RETI program was mentioned this
22 evening, that's the Renewable Electric

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1 Transmission Initiative, looking to identify
2 renewable resource areas in California and
3 those transmission projects that would be
4 needed to access those resources. So that's
5 going to be important I think input into the
6 programmatic EIS.

7 And we are currently getting
8 letters signed to become a cooperating agency.

9 We worked with the BLM on the programmatic
10 EIS for the corridors and we thought that was
11 a good effort where we were able to bring
12 together a working group in California of
13 state, federal and local agencies to advise
14 the BLM on that effort.

15 And right now we have an MOU with
16 BLM for those large solar projects that are
17 thermal projects in California, 50 megawatts
18 and larger. We have an MOU that we are using
19 to jointly process those projects through the
20 federal NEPA and state CEQA process. So we'll
21 have consistency on those permits and all the
22 projects will be evaluated similarly.

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1 So the energy commission will be
2 attending the meeting tomorrow night and the
3 one in Sacramento and we'll provide our oral
4 comments in Sacramento. Thank you.

5 FACILITATOR SMITH: Okay. Next is
6 Laura Crane. Then after Laura, Nicole Panter.
7 And John Simpson.

8 MS. CRANE: Good evening. My name
9 is Laura Crane and I am the Mojave Desert
10 project director for the Nature Conservancy.
11 I appreciate the opportunity to offer some
12 brief scoping comments on the solar
13 Programmatic Environmental Impact Statement
14 being prepared by Argonne National Laboratory
15 on behalf of the Departments of Energy and
16 Interior.

17 The Nature Conservancy will also be
18 submitting more detailed written comments for
19 the record.

20 The Nature Conservancy is an
21 international conservation organization
22 dedicated to preserving the plants, animals

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1 and natural communities that represent the
2 diversity of life on earth by protecting the
3 lands and waters they need to survive.

4 We've long been committed to
5 working with public and private partners to
6 accomplish our mission using science-based
7 methods and a collaborative non-
8 confrontational approach.

9 We own property and conduct desert
10 biodiversity projects in all of the areas
11 affected by the solar generation and
12 transmission facilities which are the subject
13 of this impact assessment.

14 Our interest in this assessment
15 flows from a concern that lands, waters and
16 the biodiversity we value and support may be
17 adversely affected by the proposed large
18 increase in the public lands devoted to solar
19 energy projects and associated transmission
20 facilities, especially if these projects are
21 not carefully sited and designed to avoid or
22 minimize negative impacts.

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1 The Nature Conservancy does support
2 increasing the share of electricity generated
3 by solar and wind sources. We recognize that
4 the deserts of the Southwest, and especially
5 the Mojave Desert, are uniquely suited to the
6 efficient generation of electricity from the
7 sun. And we believe that the development of
8 renewable energy facilities and transmission
9 can be done in a manner that is compatible
10 with protection of biodiversity.

11 So the majority of our comments
12 will be submitted in writing, but I wanted to
13 just highlight two comments in the scoping of
14 this programmatic EIS. And the first one is
15 that there are a whole host of land uses in
16 the desert that are impacting wildlife and
17 biodiversity, including but not limited to
18 expansion of military bases, off road vehicle
19 recreation, commercial and residential
20 development. So evaluating utility scale
21 solar energy projects in context with these
22 other land uses is necessary to provide an

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1 accurate assessment of their cumulative
2 impacts.

3 The second thing that I just wanted
4 to highlight was that we would like the entire
5 mitigation hierarchy, as defined by the
6 Council of Environmental Quality, to be
7 utilized which may include one or more of the
8 following: avoiding, minimizing, rectifying,
9 including repairing or restoring, and
10 compensating for the impact by replacing or
11 providing substitute resources or
12 environments.

13 We believe important lands and
14 associated water sources should be avoided.
15 Where adverse effects are inevitable, those
16 effects should be minimized on site first with
17 off site mitigation considered as a last
18 resort.

19 Finally, I just want to applaud BLM
20 for the job they've been doing. Thank you
21 very much. I got the red card and I didn't
22 even see the yellow one.

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1 FACILITATOR SMITH: I'm not
2 outrageous I don't think. Nicole Panter?
3 Okay. So we'll go on to John Simpson.

4 MR. SIMPSON: Hi, I'm John Simpson
5 and I'm representing the Desert Communities
6 Association of Realtors Energy Policy
7 Committee.

8 We'd like to commend the BLM for
9 undertaking this PEIS because we feel it's
10 very important that you consider the
11 cumulative impacts not only of all of these
12 utility scale solar projects, but all of the
13 other uses as just previously mentioned
14 impacting the desert.

15 We would like you to, along with
16 evaluating the environmental impacts, consider
17 the extreme negative impacts that these
18 projects put on property rights and property
19 values.

20 Utility scale solar projects and
21 other utility scale projects in the desert
22 remove recreational spaces, they remove open

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1 spaces and they encourage the use of eminent
2 domain for transmission lines. All of these
3 have extreme negative impacts on property
4 values throughout California because
5 recreation spaces and open spaces and View
6 Sheds are an important part of property value
7 and very important to the California
8 lifestyle.

9 At the same time that resources
10 would be going toward creating utility scale
11 projects, public land resources, financial
12 resources, tax incentives, etc., none of those
13 resources would be available to localized
14 generation incentives for rooftop solar
15 backyard wind projects.

16 We would like you to evaluate the
17 comparative analysis that shows why utility
18 scale projects should be getting the lion's
19 share of resources at the expense of localized
20 generation projects which would favor property
21 values. We will be submitting more extensive
22 comments in writing. Thank you.

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1 FACILITATOR SMITH: The next
2 speaker is Dave Kisor. Maybe I'm really
3 pronouncing it, K-i-s-o-r. Okay. Gary Lupo?
4 Gary Hatfield? Do you still want to speak?
5 Great. After Gary Hatfield we'll have Gerald
6 Hillier.

7 MR. HATFIELD: Good evening. My
8 name is Gary Hatfield. I'm a hunter/
9 conservationist and a member of the Society
10 for the Conservation of Bighorn Sheep, Quail
11 Unlimited. Both of those groups are
12 volunteers for California Fish and Game and we
13 do provide water for wildlife in the desert.

14 I've listened tonight to some very
15 good comments by the Defenders of Wildlife and
16 the Nature Conservancy and I think it's
17 interesting that these are groups which are
18 traditionally anti-hunting but, like them, I
19 have a true love of biodiversity in the
20 desert, particularly the open spaces. I've
21 been on top of many, many mountains and one of
22 the things that does my spirit the most good

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1 is to have an unfettered view of horizon to
2 horizon.

3 And I can't help but comment. I
4 didn't know quite what was going to be going
5 on here tonight. The president of the Sheep
6 Society told me about the meeting and he was
7 unable to attend so I'll keep my comments
8 brief.

9 The desert bighorn sheep is a
10 sensitive wildlife. It absolutely has to be
11 able to have fairly unfettered migration
12 routes so that rams from one herd can mix
13 their genes with ewes from another isolated
14 range. Without this we'll lose the sheep.

15 We've lost natural water and the
16 migration routes are of course compromised by
17 the freeways and transmission lines. The
18 sheep site is very concerned about a big
19 project planned out near I believe it's Nipton
20 or Baker where it's great habitat and
21 migration routes for bighorns.

22 In closing and with tongue firmly

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1 placed in cheek I was kind of surprised to see
2 all you developers here, but I shouldn't be,
3 and for the guy from Germany I would like to
4 just comment, not to single you out but being
5 around the West a lot I've met tourists,
6 predominantly from Germany and they love it
7 out here because they want to get on a road
8 that goes to nowhere and see nothing. In
9 fact, they've asked me for directions. Where
10 can I go and drive and not see anything?

11 Well that's what we're going to
12 lose and that's all I'm going to say tonight.
13 Thank you.

14 MR. HILLIER: Good evening. I'm
15 Jerry Hillier and I'm here this evening
16 representing the Quad State Local Governments
17 Authority. It's an association of seven
18 counties that are located in four of the
19 states covered by the PEIS, three in
20 California, one in Arizona, two in Nevada and
21 one in Utah. We will be submitting written
22 comments but I did want to make our presence

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1 known tonight and express at least some
2 concern. We organized originally around
3 endangered species issues so we really do have
4 a stake in the consideration of this.

5 Over the years I've been involved
6 from a variety of sources in renewable
7 energies and I find that, like the wind,
8 they're loved in the abstract and abhorred and
9 despised in the specific. And the comments
10 here tonight I think reflect that.

11 The greatest concern of our
12 authority is the impact on critical habitat
13 for desert tortoise. We're currently awaiting
14 Fish and Wildlife Service issuing the draft
15 revised recovery plan and we don't know for
16 sure what that's going to say although we
17 probably have some good hints from the
18 administrative drafts.

19 The point of this is that almost
20 without exception the best siting for solar is
21 also the best habitat for desert tortoise and
22 while we have had our differences with Fish

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1 and Wildlife Service over what's the best way
2 to recover tortoise populations, it's fairly
3 obvious that in many cases solar and desert
4 tortoise recovery are probably not going to be
5 compatible.

6 Whatever direction the PEIS takes
7 it is going to have to, I think, specifically
8 address mitigation and confirm that indeed the
9 critical habitats that have been designated
10 probably will be off limits. You see on your
11 maps there that at least for starters that
12 they are there, but I think that that has to
13 be explicitly addressed.

14 Several people here tonight, and it
15 has been interesting listening to the
16 comments, have suggested a comparative, that
17 the EIS include a comparative analysis and I
18 believe that that really would be time well
19 spent. There are a lot of development issues
20 going on in the desert, military expansion
21 being one of the most prominent of late here
22 in California.

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1 But I think all of those cumulative
2 impacts have to be gathered together and
3 looked at along with solar. And the other is
4 to actually look at other alternative energy
5 sources. I'm not going to sit here and
6 proclaim coal or nuclear would be better, but
7 they may be more efficient and certainly in
8 terms of decisions to commit desert resources
9 development, all sources need to be put on the
10 table. And you'll get written comments.

11 FACILITATOR SMITH: Thank you.
12 The next speaker is David Woodward and then
13 Mary Humboldt.

14 MR. GOODWARD: Hello. I'm David
15 Woodward and I am with San Bernardino Valley
16 Audubon Society. When you come this late in
17 the comments there's nothing new to say really
18 so rather than a canned presentation or a
19 prepared presentation I'll just throw some
20 random thoughts out.

21 The footprint of a power plant
22 project, whether it's wind or solar or coal,

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1 you can't talk about the footprint in just
2 terms of where the buildings are. Several of
3 the other people preceding me talked about the
4 essence of the desert being open space,
5 untrammelled open space, and I can't emphasize
6 that more. It's a precious resource that is
7 hard to quantify and certainly hard to put a
8 dollar sign on but once it's gone it's gone.

9 As far as mitigation goes, sure you
10 can put some tortoise burrows in there and you
11 can you know lab rear some animals and let
12 them go. Again that's not the same as what
13 God put out there. It just isn't. The desert
14 is the desert and it's extremely special and
15 it would be a crime to make hasty decisions
16 that will affect not just your children and
17 their children but just on down the line.
18 We're going to lose something very special and
19 I certainly hope BLM will look at all
20 alternatives including those that really seem
21 to be a bit out of their purview here.

22 My last comment I guess would be

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1 point of source, energy generation. It just
2 makes so much more sense, I'm sorry, it just
3 makes much more sense to have all these roofs
4 that are just radiating heat to do some good.
5 So good luck. You'll be hearing from us again
6 I'm sure.

7 MS. HUMBOLDT: Good evening. My
8 name is Mary Humboldt, I'm a resident of the
9 city of Riverside and I love the desert.

10 During the Depression I believe it
11 was Herbert Hoover campaigned for a chicken in
12 every pot and I believe there should be six
13 solar panels on every roof in California.
14 Bigger is not always better, small is
15 beautiful. I love the California desert.

16 When I came from Minnesota in 1962,
17 I fell in love with the desert and I urge
18 everyone to read the books of Edmund Jaeger, a
19 true naturalist and a man who made the desert
20 live for everyone.

21 I think that the U.S. government
22 does not own the sun. The energy harnessed

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1 should be free and available to each home and
2 business owner in the world and particularly
3 in California. Just as air is free, the sun
4 is free.

5 I would like to know why our
6 elected officials, Barbara Boxer, Dianne
7 Feinstein are not at this very important
8 hearing. Where is Mary Bono Mack, Ken Calvert
9 and Darrell Issa? I hope their
10 representatives are here so they can go back
11 to their bosses and tell them what the
12 viewpoints of the residents are.

13 I believe that the hardware for
14 these giant projects are ugly and will blight
15 our beautiful desert. California has a very
16 strong initiative process and I believe that
17 this should go to a ballot and a vote of the
18 people.

19 Just as we have a California
20 Coastal Commission, perhaps we need a
21 California Desert Commission because to take
22 one million, I've heard different numbers,

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1 600,000, one million, to take one million out
2 of the 11 million acres and cover it with
3 these giant projects is really folly,
4 particularly when each roof here in California
5 is crying out for solar panels. Cheap solar
6 panels would create jobs all over the state;
7 energy use would probably go down because
8 people would be watching their own generation
9 and maybe some of the big energy companies
10 would be put of business but oh well.

11 Now, the last thing I want to say
12 is that I really appreciate your holding this
13 hearing. I wouldn't have known about this
14 except for an article in our local paper and I
15 think there would have been more people here
16 if there had been time, if people had known a
17 little bit in advance about this. Perhaps in
18 the future you could put an ad in our local
19 papers and public notice perhaps so we would
20 be able to tell people about this. Thank you
21 very much.

22 FACILITATOR SMITH: Thank you.

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1 That takes us to through the list of folks who
2 signed up and indicated they wanted to speak
3 this evening and so now's an opportunity if
4 you didn't sign up and you would like to come
5 up and speak the floor's open. We'll just
6 take you as you raise your hands.

7 And I want to say that you guys are
8 very well educated in how to provide public
9 comments and it's been really easy to control
10 you with just the slightest flick of a card,
11 so I appreciate that. Anybody else?

12 I know that one of our speakers
13 early on, Jim Harvey, wanted to complete his
14 comments and so unless somebody else wants an
15 opportunity to speak we'll allow him to come
16 back up and complete his comments. And then I
17 can offer that to anybody else who's already
18 spoken. So go ahead.

19 MR. HARVEY: Thank you, Karen, I
20 really appreciate that. I left off talking
21 about the perceived disconnect between the
22 members and the activists of some of the

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1 national environmental groups, and I want to
2 continue that thought and talk about a
3 presentation that we gave to the Sierra Club
4 Desert Committee, the California and Nevada
5 Desert Committee.

6 Our presentation was very critical
7 of the Sierra Club and the NRDC staff's
8 apparent willingness to accept the scraping
9 and the permanently destroying potential of
10 almost a million acres of undeveloped pristine
11 public lands and the premise that it's
12 necessary.

13 AREP believes no environment should
14 be compromised or sacrificed under the
15 questionable banner proclaiming to save it.
16 Our message was actually well received,
17 surprisingly by the club members and activists
18 who overwhelmingly agreed with us. We believe
19 our concept of comprehensive preservation more
20 accurately reflects the feelings of the
21 membership of the various environmental groups
22 and that their staff members may be working

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1 independently of that consensus. So please
2 keep this in mind when you're considering the
3 wishes of the national environmental groups. I
4 hope you will hear from many of the members
5 during this entire process.

6 Another significant concern that
7 the Alliance has is the high water use that
8 was mentioned earlier that's necessary to
9 operate these enormous solar projects.
10 Recently the governor of California issued an
11 Executive Order to address the serious drought
12 conditions that are plaguing the state,
13 especially Southern California.

14 It is very widely accepted that
15 Southern California basins are in depleted
16 condition, and that's true. In a recent
17 California Renewable Energy transmission
18 initiative meeting, among the environmental
19 working group, discussions on the critical
20 condition of water availability were steered
21 towards very responsible oversight of how big
22 solar applicants would obtain these enormous

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1 quantities of water that are needed to operate
2 and whether or not they could accept the air
3 or a dry cooling process to reduce their
4 water consumption.

5 It was no surprise to us that a
6 representative of Ivanpah's project, applicant
7 BrightSource, expressed concern about this
8 oversight and accountability of water use and
9 instead recommended using general build up
10 data that was compiled before this water
11 crisis and is most likely outdated.

12 This only supports AREP's belief
13 that many of these project applicants are
14 predisposed to only protecting the enormous
15 potential profits that they will enjoy if
16 they're allowed to develop in these multi-use
17 public lands that we own, and less concerned
18 about the permanent negative environmental
19 impacts that will undoubtedly result if these
20 projects are approved.

21 What we are deciding here is
22 whether or not failed 1970s big solar and 19th

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1 century transmission technologies can somehow
2 be repackaged and this time somehow be made
3 palatable. Furthermore, many of these
4 proposed solar projects will require the
5 supplemental use of fossil fuel that was
6 mentioned earlier to keep up with the
7 production expectations. Will these
8 utilities buying this power also receive the
9 renewable portfolio standards credit for these
10 electrons? Are we going to rely on the
11 honesty of these corporations for complete and
12 accurate electron accounting?

13 The Alliance for Responsible Energy
14 Policy urges the participating agencies of
15 this solar PEIS to consider our argument that
16 large scale investor-owned solar projects are
17 unnecessary when addressing air quality and
18 carbon emission concerns and, in fact, may
19 actually contribute to increases in air
20 pollution all things considered.

21 Germany and Spain, as mentioned
22 earlier, are generating 2,00 new megawatts of

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1 truly clean distributed energy through
2 technologies such as localized rooftop
3 photovoltaics. These countries have embraced
4 policies that promote localized generation.
5 But because of extensive lobbying by many of
6 these big solar applicants and the energy
7 retailers here in the United States,
8 decentralized generation has not received the
9 incentives from our lawmakers so we can
10 achieve what's already being achieved
11 elsewhere.

12 We are moving in that direction,
13 however, a direction that I hope will some day
14 make this whole debate about sacrificing our
15 public lands obsolete. Thank you for allowing
16 me to finish my speech here.

17 FACILITATOR SMITH: Okay. If we
18 have someone else who would like to add to
19 their comments?

20 MS. GORDON: Hello again. My name
21 is Holly Gordon and again I'm vice president
22 of regulatory and legislative affairs with

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1 AUSRA.

2 A couple of things I want to
3 clarify. I appreciate all the comments that
4 were made here tonight. Just to let you know
5 my background, I was a plaintiff's
6 environmental lawyer for eight years before I
7 came to AUSRA. I've probably represented some
8 of the folks in this room. In particular I
9 represented folks in this room opposing the
10 Eagle Mountain landfill that was going to be
11 the largest landfill next to Joshua Tree
12 National Park and we won that case.

13 So just so you know, most of the
14 people who are in the solar field are on your
15 side and they want to save the environment and
16 the desert as well.

17 However, I've also represented
18 folks who have family members who have died of
19 asthma and cancer because they grew up next to
20 coal plants and oil refineries. We can't have
21 both. And as Josef said earlier from Solar
22 Millennium if you want to stop the effects of

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1 climate change you need solar, and the only
2 types of solar that can compete with coal and
3 gas in the future are large scale solar.
4 Distributed generation has a place, but the
5 small kilowatts that you put on your roof are
6 just not enough to power this country and if
7 you use electricity then you have to
8 understand that there needs to be a balance.

9 I hope that we can work with
10 everyone in this room and I think we've done
11 so with our project on the Carrizo Plains and
12 I think Solar Millennium has done so and Solel
13 and Optisolar and BrightSource. I work with
14 all of those companies, and I hope that you
15 will contact us and work with us to build
16 technologies that do not emit greenhouse
17 gases. Thank you.

18 FACILITATOR SMITH: Okay. Would
19 you like to come up again? Oh, you know what,
20 there's a woman here who has not spoken yet
21 and I appreciate you pointing that out and
22 there was another hand. Have you spoken?

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1 Yes. So that's an addition. Oh man, everybody
2 wants to keep adding to their thoughts. Okay.
3 Please.

4 MS. FLANAGAN: Thank you. I am
5 Pat Flanagan, I am with the Mojave Desert Land
6 Trust and I will be providing other comments
7 but I do have three things to say that have
8 not been brought up tonight. And one of them
9 is that I'm hoping that in the PEIS as we go
10 through with that, that we will be using staff
11 and data that had been gathered by the USGS
12 over the nine years that they have been
13 working on the recoverable and vulnerability
14 of the Mojave Desert.

15 They in particular have a lot of
16 extraordinarily valuable data on soils and the
17 types of soils that can recover and those that
18 do not over time. And so that would be
19 useful.

20 I would also like to suggest that
21 as you look at these projects and the shipping
22 of power that is generated in the desert

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1 towards the coast that you look at the various
2 maps that are available, for one the
3 earthquake hazard map, I can leave that with
4 you.

5 The earthquake hazard map and the
6 USGS prediction that there's a 99.7 percent
7 chance of a big earthquake in the next 30
8 years is what divides the desert from the
9 coast. It also is a very good diagram of the
10 wild land-urban interface which is
11 extraordinarily flammable so I would also like
12 to suggest that you include that. And I will
13 leave the map with you.

14 FACILITATOR SMITH: Is there
15 anyone else? I believe you have not yet
16 spoken? In the back? Is that correct?
17 Okay. Then we'll get to the people who have
18 more to say.

19 MR. KATZ: Hello. I'm Gerald Katz
20 and I work for the city of Colton electric
21 utility even though I am not speaking for
22 them. I've been working environmental work,

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1 I've been working in solar for almost 30 years
2 and I myself have been off grid for 20 years
3 so I know how that works.

4 But working for a utility, and I
5 work with a lot of the other utilities, and a
6 lot of these traditionalists they like to deal
7 with big megawatts because that's what our
8 industries need.

9 You can definitely provide most of
10 the energy for a home and small businesses but
11 you get multistory buildings, you get big
12 industry, they need a lot of power and the
13 traditionalists in this electric utility
14 industry, I've been in meetings and they
15 expect big solar to fail because they love
16 nuclear power, they love coal power and a lot
17 of utilities have been getting our energy from
18 strip mines 20 x 100 miles long. And if you
19 want to talk about destruction of the land,
20 that is destruction. If you want to talk about
21 water being polluted and wasted, that is
22 water being wasted and totally polluted.

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1 So solar, big solar, your rooftops
2 are great, do all that you can in it, but the
3 utilities will want to do their coal and claim
4 they can sequester it, they want to do
5 nuclear, and if you've seen strip mines it's
6 atrocious what it does. So you need to work
7 out a compromise.

8 I came here to see the battle of
9 the environmentalists against each other
10 because we all really want to save our planet
11 and make life better for everyone and we need
12 some compromises so we can get appropriate
13 large scale solar to satisfy the needs for
14 industry, to make people know that.

15 If you read your newspapers there
16 are all of these things about there are no
17 alternatives. Yesterday they said well, if
18 you want to wait a generation for solar to
19 work -- we need nuclear now. We need coal
20 now. So I want everyone to, you know, get
21 together and see what lands we can build solar
22 on that wouldn't degrade sensitive

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1 environments. Thank you and I hope you can
2 all get together and work things out for a
3 better environment. Thank you.

4 COURT REPORTER: Can you give your
5 name one more time please sir?

6 MR. KATZ: Gerald Katz. K-a-t-z.

7 FACILITATOR SMITH: Okay. Any
8 other first time speakers? Okay. We'll go
9 with you and then the others, you wanted to
10 speak again and you and you? Okay.

11 MS. VIOLA: The competitive spirit
12 of our marketplace will figure out ways to
13 rapidly provide less expensive and more
14 efficient photovoltaic systems to consumers.
15 New local energy generating projects will move
16 forward from research and development
17 laboratories to our homes and buildings at a
18 rapid pace this nation is capable of
19 achieving.

20 Delivery systems for locally
21 generated energy that minimize or eliminate up
22 front costs for property owners will flourish

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1 in a responsible energy policy environment.

2 AREP also encourages BLM to
3 consider the potential energy savings that our
4 nation could realize if our energy policy also
5 were to favor demand side management. Venture
6 capital and numerous products will follow,
7 many already exist, that assist home and
8 business owners and building engineers to
9 reduce energy consumption without compromising
10 lifestyles and business practices.

11 In closing, AREP once again wants
12 to thank the BLM for initiating this
13 cumulative study. We strongly encourage BLM
14 to consider the suggestions and
15 recommendations contained in our comments and
16 we trust BLM will want to play a key role in
17 moving our nation forward in the direction of
18 responsible energy policy development.

19 I just want to make a couple of
20 other comments and just to state that rooftop
21 solar is not the only thing that needs to be
22 considered. There's lots of ideas with the

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1 development of thin film solar where
2 applications can happen on multistory
3 buildings. There's the development of solar
4 panels on all existing parking lots which
5 could be covered and protect cars from intense
6 sunlight and, at the same time, generating
7 use. Brown field development for already
8 disturbed lands which could be developed with
9 solar panels.

10 So there's many other avenues other
11 than just rooftop development. Thank you for
12 your time.

13 FACILITATOR SMITH: Thank you.
14 We'll go with you next.

15 MR. HOFFMAN: Wayne Hoffman again
16 with Optisolar. I have to say I stand here a
17 little frustrated because I come from a
18 background of 35 years of environmental
19 planning. I started my career in 1970 on
20 Earth Day setting up the first public interest
21 research group for Ralph Nader in the state of
22 Ohio.

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1 We sued the coal companies there
2 for strip mining land without reclamation.
3 This is the kind of work I've been doing for
4 the last 30 years as an environmental planner.

5 This is not a bunch of profit-seeking
6 companies coming into the desert to destroy
7 it. And I feel compelled to refute a number
8 of misunderstandings today.

9 We're developing a project on
10 private land in California and we've searched
11 private land incessantly for locations where
12 we can put solar plants -- and we still are.

13 However, this one project we're
14 building in California has enough solar power
15 to offset all of the carbon dioxide from all
16 the cars in that county. This is not a small
17 insignificant populated county. It has
18 enough energy production to produce energy for
19 that entire county, electrical energy, and for
20 those who are saying that the solution is
21 rooftop, all I can say is you don't know the
22 numbers and you don't know the facts because

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1 rooftop costs on average at least twice what
2 most of these companies are bidding into the
3 California RFP process.

4 The other fact about this is that
5 the state of California only accepts power
6 which is competitively priced. The
7 construction of these solar plants has been
8 coming for 30 years. The process, for example
9 which our company has developed, is not a
10 breakthrough in energy technology. Thin film
11 solar has been used successfully by Sacramento
12 municipal utilities district for over 25
13 years. The technology breakthrough is in the
14 manufacturing.

15 Those of you who are saying the
16 government is not doing enough to encourage
17 rooftop solar I agree with. I'd like to know
18 how many of the people who are criticizing the
19 solar companies have rooftop solar. I would
20 be willing to bet that a lot more of the solar
21 developers do. I do for example.

22 I'd like to know how many of you

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1 drive hybrid cars.

2 These are issues that are dear to
3 our heart. We're not walking into the desert
4 mindlessly. If you look at the facts what
5 you're going to see from this development
6 process is a tremendous amount of protected
7 land created by the mitigation from these
8 plants. They're not going to happen without
9 desert mitigation for the desert toward us.

10 Those companies like ours who are
11 out there preemptively doing full scale
12 protocol surveys are providing invaluable data
13 to BLM and to the state of California for the
14 protection of the species. This is not
15 insignificant.

16 We're seeing several hundred
17 thousand dollars being spent per project for
18 this kind of thing with no guarantee these
19 permits are going to be approved.

20 There's a lot of information that
21 is going to evolve. I'm not here to say you
22 should approve 73 solar projects. As has been

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1 said before, most of us know that these 73
2 projects are not going to be able to meet the
3 solar price requirements. I don't know how
4 many of them will be approved. That's what
5 we're here to talk about. We're not going to
6 come to conclusions today about any of this.

7 I encourage you to continue to
8 bring your viewpoints to the table but to
9 continue checking the facts ahead of time
10 before you come in with statements about
11 what's cheaper and what's not, about what's
12 viable and what's not, about the fact that
13 there's this new coal plant being opened in
14 California, I mean in China every week, and
15 that if we're ever going to offset the global
16 gases that come out of these plants, we're
17 not going to do it with rooftop solar and
18 we're not going to do it with wind energy.
19 We're not going to do it with solar energy.
20 We're not going to do it with nuclear energy.
21 We're going to do it with a combination of
22 many of these things.

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1 This is something that we all have
2 to live with. We've been on this planet for a
3 heck of a long time. We've done a lot of
4 damage in less than 100 years.

5 We're not going to solve this
6 problem in three years or five years or ten
7 years. But we're going to have to look at
8 the sacrifices that we all have to make. And
9 the solar companies are going to have to make
10 some, not everybody's going to get their way.

11 The people who live in the desert
12 are going to have to sacrifice. The BLM land
13 belongs to over 300 million Americans, not to
14 the people in this room. And it doesn't
15 belong to the solar companies.

16 But we're hoping that we can find
17 ways to develop projects and Optisolar is
18 looking at the option of creating compatible
19 environments with at least two major
20 endangered species in California and yet being
21 able to continue to develop solar projects on
22 these properties.

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1 So let's wait for the facts, let's
2 wait for the studies, let's recognize that not
3 a single project level EIS has been completed
4 or even started to any significant degree in
5 the state of California.

6 We have some progress through the
7 CEC on some concentrated solar thermal
8 projects, and I would also like to point out
9 that photovoltaic projects do not use
10 considerable amounts of water. The only
11 water we expect to be using is during our
12 operation for the construction of certain
13 elements of the plant and for washing panels
14 on approximately a once or twice a year basis
15 using only a few acre feet of water for a 500
16 megawatt project.

17 So I'm just here to encourage
18 everyone to be open, be honest, search for the
19 facts and wade through the process with us.
20 We know this is going to take a long time and
21 while this is going on there's going to be a
22 lot of other things happening beside this PEIS

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1 and I think all the BLM people would tell you
2 it's not going to solve your problems. Thank
3 you.

4 FACILITATOR SMITH: The gentleman
5 in the back, would you like to add to your
6 comments?

7 MR. WALLACH: I would just like to
8 ask folks--

9 FACILITATOR SMITH: Would you
10 repeat your name please?

11 NR. WALLACH: Lee Wallach. I
12 would like to ask folks to really listen to
13 what was just said. A couple of our last
14 speakers really touched upon some of those
15 critical issues that are important if we're
16 going to be moving forward.

17 This is a partnership. I know that
18 the folks up here feel that it's a
19 partnership. Some of these folks I know well
20 and have done more than most people in this
21 country to make sure that we have a
22 responsible energy policy. We are a

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1 partnership in this.

2 The misconceptions that are running
3 rampant are very concerning to me and to our
4 industry. Our solar troughs we're looking at
5 dry cooling, we've never looked at you know
6 significant amounts of water. We are using
7 zero gas or other fuels to fuel our plant.
8 I've heard comment after comment that are just
9 unfortunately a little ill-informed. It's
10 important that we work together in order to
11 address these issues.

12 The distributed solar efforts in
13 our country, as someone had mentioned, are a
14 disaster. I would agree. I personally as
15 well as my colleagues spend an enormous amount
16 of time, not just on large scale solar but
17 pushing real energy policy in this country,
18 real money for distributed solar. Not just
19 large scale solar; all of it.

20 So it's important that we form this
21 partnership. It's important to us. Like my
22 colleagues I almost live off the grid but I

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1 have two little kids and I can't get them to
2 turn the lights off. We can actually do this
3 if we come to this together, and I want you to
4 also understand that the land that we need to
5 save, the critical areas for species, are just
6 as critical to us.

7 There is a partnership here. I've
8 seen it happen. I've seen the desert tortoise
9 live amongst solar. We really can help to
10 make this happen. So I look forward to what
11 we can do in the future moving forward. And
12 think carefully before you push too hard in an
13 opposite direction.

14 Be careful what you wish for
15 because there are folks, a lot of them out
16 there, hoping that we fail and the next group
17 of folks will be looking at a coal plant, will
18 be looking at a nuke plant, will be looking at
19 spending a whole lot more money on oil. And
20 I wonder how many folks have died this year
21 from Riverside County overseas. Be careful
22 what we wish for. We have to make these

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1 changes now. It's a failed energy policy. We
2 can change it together. Thank you.

3 FACILITATOR SMITH: I see an
4 individual in the back. I don't believe
5 you've spoken. Come on up.

6 MS. NICHOLSON: My name is Melissa
7 Nicholson and I work for the Desert Tortoise
8 Preserve Committee. And I'm going to keep it
9 very short and I want to concur with that the
10 last speaker just said, and I urge you to
11 think thoroughly about each of these projects.
12 And when you push to open lands that have been
13 historically conserved and been hard-won in
14 the first place to set aside and then mention
15 how and then we'll just mitigate, that it's
16 not as simple as just oh we can just mitigate
17 this land by setting aside. Because when you
18 think of the large scale of these projects and
19 the need to mitigate on a 1 to 3 acre ratio,
20 where are these lands going to be found for
21 the purposes of mitigation? And if we're
22 setting aside these lands, are they of equal

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1 habitat quality or are we going to be putting
2 these animals in a place where they're doomed
3 to not be able to survive?

4 And I urge you to look at the
5 success level of the large scale translocation
6 that's going on right now at Ft. Irwin and see
7 how that's affecting these tortoises, and the
8 Mojave ground squirrel, and burrowing owl.
9 So, as I said, the push, I think you get a lot
10 of the environmentalists who are stepping up
11 and saying no, no, no when we see this push to
12 open these lands that we're working so hard to
13 conserve. And that's all I have to say. Thank
14 you.

15 FACILITATOR SMITH: Thank you.
16 Dennis also known as Denise.

17 MR. TRAFECANTY: Dennis
18 Trafecanty. Well, we haven't talked about
19 something that's going on right here in
20 Riverside and San Bernardino County; 250
21 megawatts rooftop solar has been announced, I
22 think it's a million square feet or something

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1 like that. It's a million something.

2 And when Southern Cal Edison gets
3 that one done they're going to do another one.

4 So quit pooh-poohing rooftop solar. You're
5 all doing it, you're developers, you want to
6 make some money. I understand that, I'm a
7 businessman, I own property, I own a business.

8 But you really need to consider,
9 Mr. Hoffman, unfortunately you could build the
10 best solar plant out in the desert but you're
11 going to have to transmit the energy and that
12 means transmission lines.

13 There's a plan in San Diego called
14 the San Diego Smart Energy Plan I'm going to
15 give to all of you and it was funded by the
16 San Diego Foundation and it's primarily based
17 on PV, in basin PV including commercial
18 rooftop solar. Of course SDG&E see
19 unfortunately for me, Mr. Hoffman, I heard a
20 lot of what you said but I know what greed's
21 all about. I mean I've been dealing with SDG&E
22 for quite some time. By the way I do have

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1 solar on my rooftop. And they're doing
2 whatever they can to get through the state
3 park and they're doing whatever they can to
4 bring fossil fuel from Thailand and Russia
5 through Mexico up through El Centro and right
6 through the desert state park. So I'm kind of
7 scarred by that and I'm concerned about it.

8 But anyway I primarily want to tell
9 you that rooftop solar is something that's
10 there. Chiasera has it on their parking
11 structures. There's tons of -- in San Diego
12 there's 3 percent less sun power coming into
13 San Diego than there is in Riverside, just 3
14 percent. So we can get a lot of rooftop down
15 there and you can get it up here and we could
16 solve all of our energy needs with combined
17 heat and power which UCSD does and larger
18 buildings they're doing it in San Diego and
19 with rooftop solar, commercial parking lots
20 and all of us. I have 18 panels. Thank you.

21 FACILITATOR SMITH: Would you like
22 to continue?

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1 MR. MCFARLANE: I wasn't able to
2 finish everything I was going to say. I want
3 to go back just a little bit on my--

4 FACILITATOR SMITH: Would you
5 repeat your name please?

6 MR. MCFARLANE: John McFarlane,
7 Alliance for Responsible Energy Policy.

8 I want to go back just a second on
9 my comments about scientific theories. I
10 really do think that we have to dwell on that.

11 We have to look at the interconnectedness of
12 the entire university. But I also believe
13 that the Alliance for Responsible Energy
14 Policy is indeed a group of concerned citizens
15 who have no intent whatsoever of impeding
16 responsible progress. That's not what we've
17 said. We haven't said do not come on the
18 desert and build big solar plants. That's not
19 what we're saying.

20 What we have been trying to say is
21 there's more than one way to look at the
22 issue. What I've been trying to point out is

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1 that we have a lot of information about
2 greenhouse gases and the fact that this
3 planet's going to crash and burn in a decade
4 if we don't do something. And I think we're
5 responding to that.

6 We need to respond to the fact that
7 there is scientific evidence on the other side
8 also. There are scientists who say that
9 that's not really the case, that greenhouse
10 gas emissions are not all that bad, it's not
11 going to destroy the planet and that possibly
12 actions taken by mankind are not going to be
13 able to stop it anyway. So we need to get back
14 and slow down and take a look at it.

15 I'm not saying don't build large
16 scale solar but I'm saying look equally at the
17 other alternatives. Nuclear may be an
18 alternative to large scale solar. And we've
19 had a lot of scare tactics since Three Mile
20 Island and Chernobyl and everybody listens to
21 those scare tactics and let environmentalists
22 get us to shy away from nuclear. It's

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1 probably just as viable an option.

2 We're looking at developing a PEIS
3 for solar but we also need to look at the
4 other options, and while we're looking at
5 solar we need to really closely look at these
6 people who are saying rooftop solar's not the
7 answer because it may well be -- if the
8 government can put funding into research and
9 development and if the government can put
10 incentives into the companies who are
11 researching and developing more effective
12 rooftop solar every day, rooftop solar may be
13 even a better alternative than big huge solar
14 plants with long distance transmission.

15 And you know most of the big
16 generation companies will not admit that long
17 distance transmission involves loss. If you
18 can find some of them that are willing to
19 admit it a little bit you'll see that some of
20 them will say, yes, there can be 7 percent
21 loss in long distance transmission, up to 14
22 percent maybe during peak periods. That's not

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1 a whole lot, 7 percent, unless you look at the
2 fact that ratepayers are eating that loss and
3 if we, the ratepayers, are eating 7 percent of
4 a \$100 billion dollar industry that's a lot of
5 money.

6 Our research at the Alliance for a
7 Responsible Energy Policy has shown us or led
8 us to believe that centralized generation
9 based on long distance transmission is
10 outdated methods and technologies, these are
11 less responsible than distributed energy
12 generated at point of use through modern
13 technologies which are becoming more available
14 and more effective on a daily basis.

15 FACILITATOR SMITH: Okay. Thank
16 you. Anybody else who's not had an
17 opportunity to speak or has a scoping comment
18 to continue? Well I guess we're about at the
19 end of that and I'd like to offer DOE and BLM
20 an opportunity if you have anything to say in
21 closing.

22 MR. BORCHARD: Sure. Thank you

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1 very much for taking time out of your busy
2 schedules and sharing your views -- divergent
3 views -- with us, that's what we want to hear.

4 We want to hear everybody's viewpoint. That's
5 part of this process, part of the transparent
6 process.

7 So thank you for taking the time to
8 come here tonight and please submit comments
9 and continue to be involved in this process.
10 This is just the start. Stick with us
11 throughout the whole process.

12 MR. WILKINS: I'd sort of like to
13 confirm the same thing. I'm an engineer, I
14 tend to know a lot of the technology more so
15 than the environmental impact, so I think I
16 learned a lot tonight. And I'm all for the
17 environment and I'm hoping that we can, as
18 somebody else said, form a partnership so that
19 we can have solar and have the environment
20 also. I don't think it has to be one or the
21 other -- at least I hope it doesn't have to be
22 one or the other.

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1 FACILITATOR SMITH: All right.
2 Well thank you very much everyone. And
3 appreciate your time this evening. Thank you.

4 (Whereupon, the Public Scoping
5 Meeting, having been concluded, went off the
6 record at 8:48 p.m.)
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