

## **Transcript**

### **Solar Energy Development Programmatic EIS Scoping Meeting held in Salt Lake City UT, June 25, 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

+ + + + +

WEDNESDAY  
JUNE 25, 2008

6:30 P.M.

+ + + + +

HAMPTON INN & SUITES  
SALT LAKE CITY AIRPORT  
307 NORTH ADMIRAL BYRD ROAD  
SALT LAKE CITY, UTAH 84116

Facilitator:

Karen Smith  
Argonne National Laboratory  
Denver Office

Panel Members Present:

Jeff Rawson, Associate State Director  
Bureau of Land Management, Utah State Office

Matt Craddock, Branch Chief, Lands & Realty  
Bureau of Land Management, Utah State Office

Brad Ring, Project Manager  
Department of Energy, Golden Field Office

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Lynn Billman, Senior Project Leader  
National Renewable Energy Lab

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

2 (6:34 p.m.)

3 MS. SMITH: Well, welcome. I want  
4 to thank you very much for coming. We have  
5 such a small turnout tonight, it's wonderful  
6 to have some people here. My name is Karen  
7 Smith. I work for Argonne National  
8 Laboratory. Argonne has been hired by the  
9 Department of Energy and Bureau of Land  
10 Management to assist the agencies in preparing  
11 their Solar Energy Development Programmatic  
12 Environmental Impact Statement. You are  
13 attending the seventh of our series of scoping  
14 meetings for this PEIS.

15 I'm going to moderate the meeting  
16 tonight. I know we probably don't need  
17 microphones, but we are doing a recording and  
18 capturing transcripts of each scoping meeting.

19 So we'll stick with the whole protocol.  
20 We'll go through and we have a series of  
21 presentations for you from the agencies about  
22 the EIS, their interests and objectives, and a

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1 presentation from the National Renewable  
2 Energy Lab, and then we'll get to the part  
3 where you guys can make your public comments.

4 So our first speaker to welcome you  
5 tonight is Jeff Rawson, who is the Associate  
6 State Director for the BLM Utah State Office.

7 MR. RAWSON: Good evening. We're  
8 very pleased to be able to host the meeting.  
9 It looks like we'll be fortunate enough to  
10 just barely have enough chairs. But I'm very  
11 happy that we do have some -- you folks are  
12 able to come out and make it to this public  
13 meeting and our scoping session here, and  
14 welcome you from the Utah BLM.

15 My name's Jeff Rawson. I'm the  
16 Associate State Director for the Bureau of  
17 Land Management here in Utah. We're very  
18 pleased to be a part of this effort that's  
19 renewable energy resources, such as solar,  
20 wind, hydroelectric and geothermal. It will  
21 continue to be a priority for us to pursue  
22 those in terms of development and meeting our

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1 nation's growing energy needs.

2 One of the things here -- I know  
3 that some of the other meetings have been very  
4 well attended, a lot more attendance. We do  
5 not currently have any active applications for  
6 solar energy in Utah at this point in time.  
7 But we're very happy to be a part of the  
8 Programmatic EIS that includes Utah, Arizona,  
9 New Mexico, Nevada and California. We  
10 anticipate to be a part of that effort as  
11 those applications continue to occur.

12 I believe that there's currently  
13 within the BLM/Department of Energy effort we  
14 have going on here 125 applications at this  
15 point in time in those states that I  
16 mentioned, again, none of which are currently  
17 here in Utah. My understanding is that those  
18 125 applications have the potential to  
19 generate 70 billion watts of electricity via  
20 solar, which could provide power to some 20  
21 million average American homes, which is a  
22 very valid effort.

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1           As we consider that, one of the  
2 things we most assuredly want to do, and  
3 always do, is look at that in balance with our  
4 management of other multiple uses and  
5 resources on the public lands, which is the  
6 primary purpose of our Programmatic EIS that  
7 we'll be taking a look at to look and find  
8 that balance. The EIS will look at several  
9 alternative management strategies to do that,  
10 and hopefully reach the conclusions on which  
11 alternative would be the best route to go.

12           The Programmatic EIS and this  
13 meeting is one of the first steps in the  
14 process. Public scoping meetings like this  
15 continue for this effort and others to be a  
16 very important way that we can capture the  
17 comments from the public and help us formulate  
18 those alternatives and allow us to move  
19 forward for more positive energy development  
20 on the public lands.

21           So with that, welcome to our  
22 meeting here in Salt Lake City. Thank you.

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1 MS. SMITH: Thank you.

2 The next speaker is Brad Ring.  
3 He's with the Department of Energy in the  
4 Golden, Colorado Field Office. Brad's a  
5 Project Manager with DOE.

6 MR. RING: Thank you. Good  
7 evening. I too want to thank you for coming  
8 to the meeting tonight and participating. It  
9 is appreciated.

10 I just wanted to take a few minutes  
11 to go over the DOE overall program and how it  
12 fits in with this Programmatic EIS and BLM.  
13 DOE's solar energy program, the goals are to  
14 supply energy from diverse sources, and making  
15 greater use of renewable energy, improve the  
16 quality of the environment by reducing  
17 greenhouse gas emissions.

18 The other portion that ties  
19 directly with that is national security. If  
20 we can do this with renewable sources, we can  
21 provide secure, sustainable, emission-free  
22 domestic energy.

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1           The solar program goal, which is  
2 under the Department of Energy, is in line  
3 with that. We want to promote the use of  
4 solar power within the renewable energy  
5 resource management.

6           For 2008, the current year we're in  
7 right now, the funding is broken out by  
8 research and development of about \$152  
9 million. This is further delineated between  
10 photovoltaic, which is given about  
11 \$126 million in budget, and concentrating  
12 solar power, which is given \$26 million. The  
13 other portion is market transformation, and  
14 that's to promote and to have these  
15 technologies implemented domestically. Of  
16 that 18 million, some of that is going for  
17 this Programmatic Environmental Impact  
18 Statement. The remainder is for the Solar  
19 America Initiative for promoting photovoltaics  
20 and water heating activities for the 25 Solar  
21 America cities, development of codes and  
22 standards, the Solar America showcases,

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1 training in the Solar Decathlon.

2 The DOE solar energy program  
3 supports high performance costs compared to  
4 these solar energy systems. How we break  
5 those out are into two general technologies,  
6 which one is photovoltaics, which most people  
7 are familiar with, which converts solar  
8 radiation directly into electricity.  
9 Presently, that has been focused -- or is  
10 growing in the distributed generation for  
11 homes and businesses. It's presently -- while  
12 the costs are dropping, it has a present --  
13 it's a higher cost. What we look at is  
14 levelized cost of energy. That's the whole  
15 cost of the unit, from operations, management,  
16 building. What it is is cents per kilowatt.

17 Concentrating solar power is the  
18 other technology that concentrates the sun's  
19 solar radiation onto a heat transfer fluid,  
20 and then drives some sort of a steam -- either  
21 a steam cycle or an engine. There'll be  
22 discussions on that exactly. There's many

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1 different tech -- or sub-technologies within  
2 those two. But that's the overall big  
3 breakout is photovoltaics and concentrating  
4 solar.

5 Concentrating solar allows -- or  
6 becomes more economical at the larger sizes.  
7 That's why it's considered more of a utility-  
8 based project or for utility-based projects.

9 DOE's interested in co-leading the  
10 preparation -- or is co-leading the  
11 preparation of this Programmatic EIS for  
12 utility-scale solar projects. And that's to  
13 generate enough power to serve tens of  
14 thousands of homes. To do this, it requires  
15 intense solar radiation, and the six states of  
16 this Programmatic EIS are prime areas for  
17 these solar resources.

18 To get this type of power, it's an  
19 estimate of approximately five acres per  
20 megawatt. So you can see a 250-megawatt  
21 facility would require about two square miles.

22 Now, with the BLM, they manage 119 million

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1 acres of federal land in these six states. So  
2 it makes a very good fit.

3 The results DOE expects from the  
4 Programmatic EIS is the identification of land  
5 that is appropriate for the solar deployment,  
6 both technically and environmentally, and the  
7 establishment of policies that would apply.  
8 These policies would include best management  
9 practices. The best management practices  
10 identify important or sensitive, unique  
11 habitats in the vicinity of the proposed  
12 projects, and to the extent feasible, design  
13 the projects to minimize or mitigate these  
14 impacts.

15 It doesn't take away this  
16 Programmatic Environmental Impact Statement's  
17 site-specific environmental analysis that will  
18 be required to be conducted. So the  
19 Programmatic Environmental Impact Statement,  
20 the results would be used to aid the process.

21 But again, there would be a site-specific  
22 analysis.

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1           Additionally, we hope to receive or  
2 we expect to receive from this a more accurate  
3 model for predicting the potential for solar  
4 energy development for power, but also jobs  
5 will be created, and the mitigation to climate  
6 change that's occurring.

7           Thank you.

8           MS. SMITH: Thank you, Brad.

9           The next speaker is Matt Craddock.

10          He is also with the BLM Utah State Office.  
11 He's the Branch Chief for Lands and Minerals.

12          MR. CRADDOCK: Thank you. Welcome.

13          The Bureau of Land Management is an  
14 agency within the Department of Interior that  
15 manages 258 million surface acres of public  
16 lands. As mentioned in the previous slide,  
17 about 46 percent of those lands, or over 119  
18 million acres, are located within the six-  
19 state study area of the Solar Energy  
20 Programmatic EIS. Utah has 22.8 million  
21 acres.

22          The BLM's multiple use mission is

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1 to sustain the health and productivity of the  
2 public lands for the use and enjoyment of the  
3 present and future generations. The Bureau  
4 accomplishes this by managing such activities  
5 as outdoor recreation, livestock grazing,  
6 mineral development and energy production, and  
7 by conserving natural, historical and cultural  
8 resources of the public lands.

9 Solar energy is one of the many  
10 energy resources now being developed or  
11 considered on federal lands. To ensure the  
12 best balance of uses and resource protections  
13 for America's public lands, the BLM undertakes  
14 extensive land use planning through a  
15 collaborative approach with local, state and  
16 tribal governments, the public, and  
17 stakeholder groups. The result is a set of  
18 land use plans that provide the framework to  
19 guide decisions for every action and approved  
20 use on our public lands. Many of BLM's  
21 existing land use plans, however, do not  
22 specifically address solar energy development.

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1                   Executive Order 13212 directs  
2 federal agencies to expedite their actions as  
3 necessary to accelerate the completion of  
4 energy-related projects. The Energy Policy  
5 Act of 2005 sets a goal for BLM to approve  
6 10,000 megawatts of non-hydropower renewable  
7 energy on the public lands by 2015.

8                   As I mentioned, BLM must manage  
9 public lands for a variety of resource uses,  
10 including energy production. The federal  
11 energy mix managed by BLM already includes oil  
12 and gas, helium, coal, geothermal, wind and  
13 biomass, and soon utility scale solar. BLM  
14 has previously estimated that as much as two  
15 thirds of the public lands may have high  
16 potential for solar energy production.

17                   Utility scale solar energy projects  
18 on public lands are authorized by BLM as  
19 rights-of-ways in accordance with the  
20 requirements of the Federal Land Policy and  
21 Management Act of 1976. All activities  
22 proposed on public lands must be consistent

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

9 To date, the BLM has received more  
10 than 130 applications for solar energy  
11 projects, mainly in Southern California,  
12 Nevada and Arizona. And as Jeff mentioned, in  
13 Utah, we have no applications pending at this  
14 time.

15 Although this meeting is not about  
16 specific projects, you will have an  
17 opportunity to comment on those projects as  
18 they are processed. Solar applications which  
19 have already been filed with BLM will be  
20 processed on a case-by-case basis through a  
21 specific NEPA process. These pending  
22 applications will move forward on a parallel

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1 process with the Programmatic EIS, but new  
2 applications will be deferred until the  
3 completion of this Programmatic EIS.

4 Under BLM's current solar energy  
5 development policy, applications are processed  
6 on a first-come-first-serve basis, each with  
7 its own specific NEPA process. BLM believes  
8 that by looking programmatically at the issues  
9 associated with solar energy development, we  
10 will be able to develop a more comprehensive,  
11 consistent and efficient program approach by  
12 which to address solar energy proposals on  
13 public lands.

14 The Programmatic EIS will identify,  
15 number one, public lands best suited to energy  
16 development -- solar energy development;  
17 number two, mitigation strategies and best  
18 management practices to guide future solar  
19 energy development; and three, possible  
20 additional transmission corridors needed to  
21 specifically facilitate solar energy  
22 development.

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1           BLM believes that this Programmatic  
2 EIS will be the key in advancing the  
3 understanding about the impacts of solar  
4 energy development and how best to deal with  
5 those impacts, and that the resulting  
6 decisions will better foster and support the  
7 nation's needs for environmentally sound solar  
8 energy development.

9           BLM expects to amend land use plans  
10 in the six-state area to adopt the solar  
11 energy decisions made as a result of this  
12 Programmatic EIS. These meetings are an  
13 important part of the BLM planning process, as  
14 well as the NEPA process. We included  
15 proposed planning criteria in the Federal  
16 Register notice of May 29th, and are asking  
17 for your comments on those criteria during the  
18 scoping process.

19           Thank you.

20           MS. SMITH: Thank you, Matt.

21           Our next speaker is Lynn Billman.

22           She's a Senior Project Leader with the

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1 National Renewal Energy Laboratory in Golden,  
2 Colorado. NREL is assisting BLM and the DOE  
3 in preparation of the EIS by bringing its  
4 expertise with respect to solar energy  
5 resources and solar energy technologies. They  
6 created all these posters here. Lynn is going  
7 to provide a presentation about the resources  
8 and technologies.

9 MS. BILLMAN: Thank you very much.

10 I'll be brief.

11 I just want to give an overview to  
12 you about solar technologies that are going to  
13 be included in the scope of the study. As has  
14 been mentioned, we're looking at utility  
15 scale, ten megawatts and above. That means  
16 that the use of PV panels on individual houses  
17 or individual businesses, for example, or  
18 small installations would not be part of this  
19 scope.

20 I'll also talk a little bit about  
21 the GIS systems that we're using to help BLM  
22 and DOE with their analyses for the PEIS, and

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1 a little bit about the impact this modeling,  
2 as Matt mentioned, where we're using some  
3 modeling to look at the impacts over the next  
4 20 years of solar development as it could  
5 pertain to economics, jobs, and so on in the  
6 six-state area.

7 Next slide. I believe it was Jeff  
8 introduced -- no, it was Brad -- introduced  
9 the concept of looking at the solar  
10 technologies as whether they generate  
11 electricity directly from sunlight, or whether  
12 they use a thermal process using the thermal  
13 properties of the sunlight. Another way to  
14 categorize these technologies is whether they  
15 are dispatchable, meaning that the utility  
16 operators can -- or the plant operators,  
17 rather -- can control when the electricity is  
18 produced, or whether it's not dispatchable and  
19 it's intermittent.

20 The photos here show the six  
21 different technologies we're talking about and  
22 the two groups that they fall into. The solar

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1 technologies that are dispatchable typically  
2 have some sort of storage possibilities, cost-  
3 effective storage possibilities with them.

4           The first photo on the left is a  
5 parabolic trough. Again, I will just mention  
6 these pictures, and then I'm going to talk a  
7 little bit about each one. But parabolic  
8 trough, which is in the upper left corner,  
9 that has been around 15 years. That happens  
10 to be a photo of the Kramer -- the SEGS plant  
11 at Kramer Junction, California.

12           The third photo is a power tower.  
13 That's a little bit east of Barstow. And  
14 there's another one in Spain.

15           The third technology that is  
16 considered dispatchable is actually in the  
17 fifth picture, if you go over four and down  
18 one. These are a relatively newer technology  
19 called compact linear fresnel reflectors.  
20 Those are in proposal. They're pre-commercial  
21 at this stage.

22           The technologies without storage

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1 that are definitely not dispatchable at this  
2 point in time include dish/Stirling engine  
3 systems. Those are shown in the fourth  
4 photograph across the top. I'll talk a little  
5 bit more about those.

6 Concentrating PV, that second  
7 picture at the top, shows you an example of  
8 that, and flat-plate PV that you see in the  
9 last picture in the right-hand corner.

10 Okay. Let's go into each of these  
11 with a little bit more detail. As I  
12 mentioned, the parabolic trough is the  
13 longest-term commercial technology, 15 years  
14 of successful operation for 360 megawatts --  
15 SEGS -- thereabouts -- in California. The  
16 central -- you can see the details of how  
17 these operate up in the posters. But  
18 basically it's a long parabolic shaped mirror  
19 sections that have a rod running down the  
20 middle with an oil-based fluid that heats up.  
21 The hot fluid goes to a generating plant that  
22 flashes steam, and in a very traditional way

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1 generates electricity from that.

2 Central receiver technology is  
3 quite different. It has, as you can see from  
4 the picture, this whole array of individual  
5 reflectors focusing on a central point that  
6 uses a molten salt material and heats it up to  
7 quite high temperatures. Then that is the  
8 source of heat for the steam for generating  
9 electricity.

10 The next slide mentions why we make  
11 a distinction between dispatchable power and  
12 non-dispatchable power. The red curve is kind  
13 of a typical utility load profile for the  
14 Southwest, where a lot of electricity begins  
15 to be used after -- you know, even in the  
16 daytime hours, but certainly rising at noon,  
17 peaking around 5:00 or 6:00 in the evening,  
18 but carrying on and still needing power up  
19 until, you know, 10:00 or 11:00 at night. Of  
20 course the solar production, which is the  
21 yellow shaded area behind that, tends to fall  
22 off right about the middle of that big curve.

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1 But when you have thermal storage available,  
2 you can extend the usage period for that  
3 solar-generated electricity. That brings down  
4 the cost and makes the whole process of higher  
5 value to the consumers.

6 Okay. Let's see. The next slide  
7 is the non-dispatchable technologies. The  
8 dish/Stirling is an interesting technology.  
9 They are actually fairly small. Each  
10 particular unit is around 25 kilowatts. But  
11 at the center of a circular array of mirrors  
12 that focuses on one point, it focuses on a  
13 fluid that gets hot and drives a piston.  
14 That's a Stirling engine configuration. That  
15 will generate electricity right from that  
16 particular unit. Obviously, to get to ten  
17 megawatts, you need a field of 400 of these.  
18 So it'd be fairly extensive. But these kinds  
19 of projects are being considered now. There  
20 are no large projects deployed yet.

21 The second photo there is  
22 concentrating PV. Again, that is pre-

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1 commercial. It uses the same kind of circular  
2 reflectors. But it focuses instead on a high-  
3 efficiency, usually multi-junction solar cell.

4 And the solar cell is certainly the most  
5 expensive part of a PV system. By  
6 concentrating the sunlight, you can bring down  
7 the overall cost of the PV electricity.

8 Okay. The next one is a little bit  
9 more of these concentrating PV systems, three  
10 different types of reflectors -- as I say,  
11 this sort of circular mirrors. They also use  
12 fresnel lenses in these square configurations  
13 that refract the sunlight onto the individual  
14 solar cells. Each one of these configurations  
15 generates approximately 500 suns. It  
16 concentrates the sunlight about 500 times.  
17 The hopes are that that will dramatically  
18 bring down the cost.

19 All right. Next, one further point  
20 about concentrating technologies, and that is  
21 that they need to use the direct normal  
22 insolation from the sunlight. Direct normal

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1 is the sunlight that falls -- it's hard to do  
2 with a microphone -- it falls at 90 degrees to  
3 the surface. Any diffuse sunlight is not  
4 really practically effective, and it is lost  
5 if there's clouds, if there's dust in the air  
6 or otherwise. It only uses the direct normal  
7 insolation.

8           Okay. What else should I say about  
9 that map? This is part of the GIS work that  
10 both Argonne does and NREL does that's  
11 supporting the Programmatic Environmental  
12 Impact Statement. The data is based on some  
13 satellite information, satellite data, and  
14 modeling. It's public information. So if you  
15 have any further questions about that, I guess  
16 we could entertain them afterwards or  
17 something.

18           The next slide has a little bit  
19 more information about a couple of PV flat-  
20 plate systems. They can be fixed with regards  
21 to the movement of the sun, or they can track,  
22 actually single or dual axis tracking.

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1           The photo on the -- let me get this  
2 right -- the photo on the left is Nellis Air  
3 Force Base in Nevada. And on the right is a  
4 system in Portugal. You can get a sense of  
5 the area that these require from these  
6 photographs.

7           The map on the next slide -- I  
8 don't know if you -- I didn't point out, but  
9 the colors are lighter. You get less intense  
10 sunlight when you consider only the global  
11 insolation. Global insolation implies all of  
12 the sunlight that you can get reflected from  
13 clouds, reflected from the ground, reflected  
14 from dust in the air, and so on. It's less  
15 intensive, but all of that sunlight is usable  
16 to a flat-plate system.

17           Okay. On the next slide, I want to  
18 talk just very briefly about a couple things  
19 that we consider in the economics that will go  
20 into the environmental impact statement  
21 process, into the environmental impact study.

22           That is the investment tax credit. As you

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1 know, there's currently a 30 percent tax  
2 credit for solar systems. That's a  
3 significant benefit, significant incentive for  
4 development. That currently is slated to  
5 expire at the end of 2008. There have been a  
6 variety of efforts in Congress to extend that  
7 beyond. Of course, none of us know how that's  
8 going to play out. But we can certainly model  
9 it on computers.

10 If you go the next slide, we have  
11 done some work to look at the potential impact  
12 on solar development in the Southwest whether  
13 or not the investment tax credit gets  
14 extended. If it's not extended, the  
15 projections are rather dismal for the 20-year  
16 period -- approximate 20-year period of the  
17 study, such that by 2030, you're only looking  
18 at six or seven gigawatts of installed  
19 capacity.

20 And if you go to the next slide, if  
21 you make an assumption -- and this is of  
22 course an assumption -- that there would be an

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1 eight-year extension of that, even though the  
2 investment tax credit some folks are proposing  
3 declines during that period, it still gives a  
4 tremendous boost to the industry, such that  
5 you could get something on the order of 40  
6 gigawatts of installed capacity by 2030.

7 So those are some of the things  
8 that we'll be looking at along with Argonne  
9 and to the service of DOE and BLM. Thank you  
10 very much.

11 MS. SMITH: Thank you, Lynn.

12 So now you've heard presentations  
13 from the two agencies regarding the EIS and  
14 their objectives for it. And you've heard  
15 from NREL about the solar energy resources in  
16 the six-state study area, and the types of  
17 technologies that are considered to be  
18 commercially viable over a 20-year planning  
19 horizon out to 2030, which is the period of  
20 time being examined in the EIS.

21 So now I'm going to run through  
22 some slides. The primary intent now is to

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1 make sure that we all have a common  
2 understanding of the process that these  
3 agencies are embarking on, and that is the  
4 preparation of an environmental impact  
5 statement under the National Environmental  
6 Policy Act, NEPA, and the process that they're  
7 inviting you to participate in.

8           So some overviews of definitions,  
9 terminology. What is an environmental impact  
10 statement? An EIS is a document that a  
11 federal agency needs to prepare when it's  
12 contemplating undertaking a certain action.  
13 In that document, the intent is to evaluate  
14 the environmental and socioeconomic impacts of  
15 the proposed action. So in the EIS document,  
16 they need to describe the action that they're  
17 proposing, the purpose and need for the  
18 action. They then need to assess the  
19 potential environmental socioeconomic impacts  
20 of the proposed action, as well as ways that  
21 those impacts can be mitigated. They also  
22 have to evaluate reasonable alternatives to

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1 the proposed action and the possible impacts  
2 of those alternatives. They have to look at  
3 short-term and long-term impacts, as well as  
4 cumulative impacts, as well as the commitment  
5 of different types of resources that would be  
6 used or incurred by that project. And  
7 importantly, they need to document the public  
8 interest and concerns, and how those concerns  
9 are factored into the analysis in the EIS.

10 Why is this EIS being prepared?  
11 Well, NEPA requires federal agencies prepare  
12 an EIS whenever they contemplate a major  
13 action that could significantly impact the  
14 quality of the human environment. Both DOE  
15 and BLM have determined that the establishment  
16 of broad, over-arching programs that will  
17 guide decision-making in a six-state study  
18 area for all solar energy development over a  
19 20-year horizon constitutes a major federal  
20 action. So they feel they need to prepare an  
21 EIS.

22 We've been referring to it as a

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1 programmatic EIS. So just to be clear, what's  
2 the difference between a programmatic EIS and  
3 a more regular EIS? A typical EIS is prepared  
4 when you have a specific project at a specific  
5 site. You know all the elements, components  
6 of that project, and so your analysis is very  
7 clearly defined for you. The proposed action  
8 is very clearly defined.

9 In this case, we're not looking at  
10 specific sites or specific projects. Instead,  
11 we're looking at the establishment of very  
12 broad programs that will provide over-arching  
13 guidance to the agencies. And so in that  
14 context, we don't look at site-specific  
15 impacts. We look at impacts at a more general  
16 level, the impacts of solar energy development  
17 by technology on different types of resources.

18 And then also at a very general level, we'll  
19 look at the ways those types of impacts can  
20 possibly be mitigated. So that's a  
21 programmatic EIS.

22 What is scoping? Well, scoping is

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1 the first phase during which the public gets  
2 to be involved in preparation of an EIS. It's  
3 the phase that's held at the start of a  
4 project, and it's the phase during which the  
5 agencies get input from stakeholders on a  
6 variety of elements. They're listed here.

7 So the agencies during this scoping  
8 phase are seeking your input on their proposed  
9 action, as well as alternatives to the  
10 proposed action that they should consider.  
11 They'd like your input on what the significant  
12 issues are that should be considered in terms  
13 of resources that might be impacted in the  
14 study area and other concerns you have. They  
15 would like input on possible mitigation  
16 measures. They would like input if you have  
17 data that you think would be relevant to the  
18 analysis or know of published data that you  
19 think the agency should consider. They'd like  
20 to hear about that. And importantly, they're  
21 trying to collect information on who the  
22 stakeholders are and what the stakeholders'

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1 concerns are.

2 We've talked quite a bit about the  
3 proposed action and alternatives. So we'll  
4 just give a little briefing of what the  
5 current thinking is on the part of the  
6 agencies regarding their proposed action and  
7 the alternatives.

8 The information on this slide comes  
9 pretty much straight out of the notice of  
10 intent that was published in the Federal  
11 Register on May 29th. Now, NEPA requires  
12 federal agencies have to look at the  
13 alternative of taking no action at all.  
14 That's called the "no action alternative." So  
15 this EIS will include an analysis of the no  
16 action alternative.

17 The best way probably to describe  
18 what no action is is maybe to have a good  
19 understanding of what the proposed action is.

20 So moving on, the proposed action is, as  
21 you've heard, both agencies, DOE and BLM, are  
22 proposing to develop their own agency-specific

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1 programs that will guide their decisions about  
2 solar energy development into the future in  
3 this six-state study area. These programs are  
4 going to consist of policies and mitigation  
5 strategies that will be applied to solar  
6 energy development projects that they oversee  
7 or make decisions about.

8 So for DOE, what this means is that  
9 their program will apply to DOE-funded solar  
10 energy projects in the six-state study area.  
11 These include projects that DOE might fund on  
12 BLM-administered lands, but also on other  
13 federal lands, state lands, private lands,  
14 tribal lands. So any project that they might  
15 fund would be subject to this program of  
16 policies and mitigation strategies.

17 On the other hand, for BLM, their  
18 program would apply specifically to projects  
19 on BLM-administered lands. As part of the  
20 proposed action, BLM would amend its land use  
21 plans in the six-state study area to adopt to  
22 the program so that it can be implemented.

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1                   At this time, the BLM has  
2 identified a third alternative to assess in  
3 the EIS.

4                   Oh, before I go on, backing up, no  
5 action, then, would be the alternative of not  
6 creating these over-arching programs. And so  
7 in both cases, DOE and BLM would continue to  
8 evaluate solar energy development the way they  
9 do now, which is on a case-by-case basis. And  
10 for BLM, it's within the context of their  
11 solar energy development policy.

12                   So then as I was saying, BLM has  
13 preliminarily identified a third alternative  
14 that they want to evaluate. It's been called  
15 the limited development alternative. Under  
16 this alternative, BLM would limit future solar  
17 energy development to those projects that are  
18 currently awaiting application approval, so  
19 from the pool of 130-some applications for  
20 which BLM determines there are complete plans  
21 of development.

22                   So this would be a much lower level

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1 of development than would occur under either  
2 the proposed action or the no action  
3 alternative. That's why it's called the  
4 limited development alternative. That's a BLM  
5 alternative only. It doesn't apply to DOE.  
6 At this time, DOE has not identified a third  
7 alternative to evaluate.

8 Well, there are a number of  
9 opportunities throughout the life of an EIS in  
10 which the public can get involved. As I said,  
11 this is the first one. It's scoping. It  
12 began on May 29th, and the scoping period will  
13 end on July 15th.

14 Then you can get involved in about  
15 a year. In spring of 2009, the agencies  
16 anticipate releasing their draft PEIS for  
17 public review and comment. And then it's  
18 anticipated about a year later, in the spring  
19 of 2010, a final EIS would be prepared.

20 I want to tell you about a public  
21 information center that we've constructed on  
22 the internet. The website address is shown

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1 here. And if you haven't yet seen the site, I  
2 encourage you to take a look at it. There's a  
3 lot of good information up there about NEPA  
4 process, this particular EIS, solar energy  
5 resources and technologies. We also maintain  
6 project information, such as the project  
7 schedule. We keep EIS-related documents that  
8 are available up there. So the notice of  
9 intent can be downloaded, the slides we're  
10 presenting tonight, the fact sheet we've  
11 handed out. All these posters are available  
12 on that website. And as the project  
13 progresses, additional documents will be  
14 posted. The next one will be a scoping  
15 summary report. And then the draft EIS will  
16 be posted there. So it's an easy way to stay  
17 in touch with the project and the information  
18 the agencies are disseminating.

19                   Importantly, there's an online  
20 scoping comment form. So you can go on, type  
21 in your comments. If you have supplementary  
22 information you want to append, you can add up

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1 to ten megabytes of attachments. So that's of  
2 interest, and I'll mention that again in a  
3 minute.

4 We also have an e-mail notification  
5 list. So if you sign up for that, you'll get  
6 periodic updates on the project, announcements  
7 of meetings, availability releases of  
8 documents. If you registered online or gave  
9 us your e-mail address when you signed in this  
10 evening, we'll go ahead and enroll you in that  
11 e-mail list, unless you tell us you'd like to  
12 not be.

13 All right. So there are three  
14 different ways to provide scoping comments.  
15 One is tonight at this scoping meeting; a  
16 second one is via the project website, as I  
17 mentioned, online comment form; and then also  
18 by regular mail. And we're accepting comments  
19 through July 15th. The URL, the address for  
20 submitting comments online is shown on that  
21 first bullet. That's a very efficient way to  
22 provide your input. Another alternative is to

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1 use this comment form that we handed out this  
2 evening. It gives you a tiny bit of space to  
3 provide your comment. So you can use this.  
4 You can write it in tonight and hand it to one  
5 of us, or take it home and fold it over and  
6 mail it in. The address on the back is the  
7 same as the address shown here. So if you  
8 have more to send us in writing, reports you  
9 want to append, you can use that address.

10 So for tonight, providing oral  
11 comments, these are some ground rules. We're  
12 going to go through the speakers in the order  
13 that they registered an intent to speak. Then  
14 if you didn't register, and you decide you  
15 want to speak, you'll have an opportunity.  
16 And when you make an oral comment, we'd like  
17 you to state your name and affiliation. I'm  
18 going to throw caution to the wind and  
19 dispense with the three-minute limit tonight.

20 Although that doesn't give you three hours,  
21 but a reasonable amount of time. I don't  
22 think that we have a time management issue at

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1 this particular meeting.

2 We'd like comments to be limited to  
3 the scope of the Programmatic EIS. So we do  
4 not need comments -- we're not looking for  
5 comments on individual projects, but rather,  
6 comments on this programmatic effort. And  
7 then if you have written copies of any of your  
8 statements, you can provide those to us  
9 tonight. Anybody wearing a name tag can  
10 collect any information you want to hand in.

11 As I mentioned at the outset, we're  
12 creating transcripts of all of the scoping  
13 meetings. They will all be posted on the  
14 public website at some point after the final  
15 scoping meeting, which is, I believe, July  
16 11th -- 8th, 9th -- 10th.

17 All right. The interesting  
18 situation is that I think the first person who  
19 signed up interested in speaking has left the  
20 room, Peter Weiner, and he's on the telephone.

21 So that's the only person at this time who  
22 had signed up with an intent to speak. I hope

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1 he'll return to the room. But in his absence,  
2 I open the floor to anybody else who would  
3 like to talk.

4 MS. VAN DAME: Is this the point  
5 that we get to ask questions?

6 MS. SMITH: Well, we can -- why  
7 don't we go through the comment period, and  
8 then we can take some questions to limited  
9 extent.

10 Okay. So you have a comment?  
11 Okay. Great.

12 MS. VAN DAME: Thank you. My name  
13 is Kathy Van Dame, and I'm with the Wasatch  
14 Clean Air Coalition. One of the things that I  
15 would like to suggest is that at some point  
16 the emissions not emitted and the water use  
17 not consumed as the result of these solar  
18 projects be quantified and used as part of the  
19 impact statement, because those are impacts  
20 that don't happen because we're not building  
21 coal or nuclear or burning natural gas.  
22 There's issues with land use and all of that

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1 with all of those other ones.

2 At some point, it would be useful  
3 if there was an inventory of land that's  
4 already disturbed in some way to account for  
5 some land that the BLM operates already is  
6 disturbed and of lower value for environment,  
7 for ecology, and stuff like that.

8 And that's all I've got except for  
9 questions.

10 MS. SMITH: Would anybody else like  
11 to provide a comment?

12 (No responses.)

13 MS. SMITH: Okay. So Peter's out  
14 of the room. We'll allow him to complete his  
15 call. I guess we'll take some questions now.

16 Now, I have to stress that we can take some  
17 questions, but really only for clarification  
18 of the information that's been presented this  
19 evening. We don't want to get into trying to  
20 predetermine where the EIS will take the  
21 agencies.

22 MS. VAN DAME: You were saying that

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1 DOE is going to use -- be interested in  
2 different kinds of lands -- federal, other  
3 federal, BLM land, other federal land, state  
4 land, private land, tribal lands. What other  
5 kind of lands are there?

6 MR. RING: You're asking BLM or  
7 DOE?

8 MS. VAN DAME: Well, DOE is the  
9 ones that are talking about they're interested  
10 in DOE-funded projects on certain kinds of  
11 lands, and there was a list of lands. What  
12 other --

13 MS. SMITH: There really aren't any  
14 other kinds of lands.

15 MS. VAN DAME: Okay. That's --

16 MS. SMITH: The point is that DOE's  
17 funding can go to projects anywhere, not just  
18 BLM-administered lands.

19 MS. VAN DAME: So if we had some  
20 sort of thing, for instance, with making  
21 carport roofs with PVs so that you could  
22 charge your plug-in hybrids, that might be

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1 something -- in a city -- that might be  
2 something that BLM would do?

3 MS. SMITH: No. The scope of this  
4 EIS, if you'll recall, is limited to utility  
5 scale.

6 MS. VAN DAME: Yes, yes. Sorry.

7 MS. SMITH: So it would be any  
8 utility scale project that DOE might have  
9 funds contributed towards.

10 MS. VAN DAME: So it'd have to be  
11 big.

12 MS. SMITH: Yes.

13 MS. VAN DAME: But if it was big  
14 enough?

15 MS. SMITH: If it was a whole lot  
16 of parking lot roofs.

17 MS. VAN DAME: Okay. The other  
18 question that I have is, would it be possible  
19 to model the impact of this two-year  
20 moratorium on accepting new applications for  
21 BLM land?

22 MS. SMITH: You know, I think

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1 that's a question to the Reed's model, which  
2 is used by NREL, and a different set of  
3 assumptions. The EIS will include a projected  
4 development scenario that would happen under  
5 BLM's proposed action, and then a separate  
6 projected development scenario that would be  
7 associated with DOE's proposed action.

8 So Lynn Billman made the  
9 observation that she would need to ask some  
10 individuals that run the models. But the  
11 projected development scenario, as I  
12 understand it, is based more on a total number  
13 of acres that potentially would be available  
14 for development, and a variety of factors,  
15 such as access to transmission, cost of other  
16 fuels, and so forth.

17 MS. VAN DAME: For sure the --

18 MS. SMITH: I'm not sure we could  
19 model it. One could probably speculate about  
20 it.

21 MS. VAN DAME: But it would  
22 certainly have impacts. It would certainly

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1 have impacts that are somewhat --

2 MS. SMITH: Now you're making a  
3 comment, and if you want to come back up, we  
4 can make a comment.

5 MS. VAN DAME: Make a comment? Oh.  
6 I'll make a comment.

7 MS. SMITH: Please do. And for the  
8 reporter, could you repeat again --

9 MS. VAN DAME: I'm Kathy Van Dame,  
10 and I'm still with the Wasatch Clean Air  
11 Coalition.

12 MS. SMITH: Thank you.

13 MS. VAN DAME: I would comment that  
14 interrupting the flow, for want of a better  
15 word, of solar projects would have a similar  
16 dampening effect to the one that you  
17 mentioned -- I'm sorry --

18 MS. SMITH: Lynn Billman.

19 MS. VAN DAME: Lynn -- that Lynn  
20 mentioned where she said, over a 20-year  
21 horizon, if the tax credit was not renewed,  
22 over 20 years, there'd be a difference

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1 between -- how many? You remember.

2 MS. SMITH: Lynn?

3 MS. BILLMAN: Six and forty.

4 MS. VAN DAME: Six and forty. So  
5 just, you know, doing a back of the envelope  
6 calculation, you're talking about 40 -- 34  
7 divided by two -- one -- 17 --

8 MS. SMITH: We can't really answer  
9 your question about the ability to project  
10 that or incorporate that into the model, but  
11 we appreciate your comment, concerns about the  
12 moratorium.

13 Okay. Peter has come back into the  
14 room. Would you like to make your comment?  
15 And we'd like you to state your name and  
16 affiliation.

17 MR. WEINER: Peter Weiner  
18 representing the Center for Energy Efficiency  
19 and Renewable Technology and other solar  
20 industry members.

21 I've testified before, not before  
22 the three of you, but I was in Sacramento, and

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1 my testimony's in the record, so I won't  
2 repeat that. I want to talk just about one  
3 thing and emphasize it tonight, which is the  
4 moratorium. We have objected to the  
5 moratorium for a number of reasons. The  
6 principal reason is that this is a time, from  
7 our point of view, in the history of our  
8 country and our planet when we need to provide  
9 incentives for low-carbon energy, not  
10 disincentives.

11 So energy is a nascent industry  
12 where capital is not centered in the industry,  
13 but rather, available to it when it looks like  
14 there are opportunities. To the extent that  
15 there is a moratorium for three years -- and  
16 we think it will be at least three years  
17 before this is finished -- that capital will  
18 go elsewhere. It'll go into fossil fuels and  
19 other pollution-generating fossil fuels that  
20 are available.

21 We don't think that's good for  
22 solar energy. We don't think it's good for

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1 the environment.

2           There are ways to deal with the  
3 moratorium that don't result in the wholesale  
4 dissection of BLM lands. First, every  
5 application is subject to a full NEPA  
6 analysis. So it's not that easy. Second, no  
7 one's going to build solar energy where there  
8 isn't transmission. So it's taking quite a  
9 risk to put in an application while the PEIS  
10 is going out to figure out where transmission  
11 should be.

12           But the way in which the moratorium  
13 can be changed is this: For one thing, in  
14 environmentally sensitive areas, such as  
15 ACECs, and in California we have desert  
16 wildlife management areas, or DWMA's, one can  
17 be flexible to allow applications where  
18 habitat conservation plans or other state  
19 conservation plans that are even more  
20 stringent are adopted so that there can be  
21 limited development on those lands.

22           More importantly, perhaps, for

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1 purposes of environmental protection and  
2 incentives for solar energy, one can easily  
3 allow applications where we don't have  
4 environmentally sensitive lands. On those  
5 lands which are not environmentally sensitive,  
6 and there are many BLM lands that are not,  
7 there is no reason why we shouldn't  
8 incentivize solar energy to locate there  
9 rather than on environmentally sensitive  
10 lands. One way to do that is not to have a  
11 moratorium on those lands.

12 So we would welcome a further  
13 discussion with BLM about that. We are  
14 sensitive to the protection of species and  
15 habitat. But we also think there are ways to  
16 accomplish a PEIS investigation and  
17 determination without killing the industry.

18 Thank you very much.

19 MS. SMITH: Thank you. Any other  
20 comments?

21 (No responses.)

22 MS. SMITH: Any other questions?

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1 (No responses.)

2 MS. SMITH: Well, this has been a  
3 short meeting. We really appreciate those of  
4 you who attended and your participation. I'm  
5 sure folks will be around in the room for a  
6 little bit longer, so if you want to approach  
7 anybody, we're here.

8 Thank you.

9 (Meeting adjourned at 7:25 p.m.)

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