

CSI RD&D Program
Coordination and IOU Outreach Meeting for Solicitation #1 Grants
Grid Integration of PV
July 22, 2010 from 10 am to 4 pm

Meeting Location: Itron, Oakland Office
1111 Broadway, Suite 1800

- 10:00 am Welcome and Introductions
- 10:15 am Purpose and Background
- 10:25 am **Planning and Modeling for High Penetration PV**
- Advanced Modeling and Verification for High Penetration PV (Clean Power Research) [PDF](#)
 - Development and Analysis of a Progressively Smarter Distribution System (UC Irvine) [PDF](#)
 - Planning and Modeling for High Penetration PV (SunPower) [PDF](#)
 - Improving Economics of Solar Power Through Resource Analysis, Forecasting and Dynamic System Modeling (UC San Diego) [PDF](#)
- 11:45 am Discussion of Planning and Modeling Projects
- 12:30 pm Working Lunch
- 1:00 pm **Testing and Development of Hardware / Software for High-Penetration PV**
- Analysis of High Penetration Levels of PV into the Distribution Grid in CA (NREL) [PDF](#)
 - High Penetration PV Initiative (SMUD) [PDF](#)
- 1:40 pm Discussion of Hardware and Software Projects
- 2:10 pm **Integration of Energy Efficiency, Demand Response, Energy Storage and PV**
- Integrated Energy Project Model (kW Engineering) [PDF](#)
 - Beopt-CA (EX): A Tool for Optimal Integration of EE/DR/ES+PV for CA Homes (NREL) [PDF](#)
- 2:50 pm Discussion of EE/DR/ES and PV Projects
- 3:15 pm Wrap-up and Next Steps

Participant	Affiliation	Contact
In person attendance		
1. Neal Reardon	CPUC – CSI RD&D Contract Manager	Neal.Reardon@cpuc.ca.gov
2. Ann Peterson	Itron – CSI RD&D Program Manager	Ann.Peterson@itron.com
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5. Jonathan Wanjiru	Itron – Grant Manager	Jonathan.Wanjiru@itron.com
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7. John Carruthers	PG&E	
8. John Randolph	PG&E	jdr9@pge.com
9. Peter Turnbull	PG&E	pwt1@pge.com
10. Genrick Gofman	PG&E (IDSM – audit tool)	gxgo@pge.com
11. Mike Turner	Sempra	MTurner@semprautilities.com
12. Tom Hoff	Clean Power Research	tomhoff@cleanpower.com
13. Ben Norris	Clean Power Research	
14. Jan Kleissl	UC San Diego	jkleissl@ucsd.edu
15. Matt Galland	SunPower	matt.galland@sunpowercorp.com
16. Carl Lenox	SunPower	Carl.Lenox@sunpowercorp.com
17. Ben Bourne	SunPower	Ben.bourne@sunpowercorp.com
18. Elaine Sison-Librilla	Sacramento Municipal Utility District	esison@smud.org
19. Devan Johnson	kW Engineering	johnson@kw-engineering.com
20. Paul Cobb	SaveEnergy123	paul@saveenergy123.com
21. Michael Palmquist	SolarNexus	mpalmquist@solarnexus.com
Online participation		
1. Barry Mather	NREL	Barry.Mather@nrel.gov
2. Russ Neal	SCE	Russell.Neal@sce.com
3. Bryan Urquhart	UC San Diego	
4. Scott Samuelsen	UC Irvine	GSS@uci.edu
5. Allie Auld	UC Irvine	
6. Lisa Paulo	CPUC (Energy Division IDSM – audit tool)	LP1@cpuc.ca.gov
7. Craig Christensen	NREL (BeOpt)	craig.christensen@nrel.gov

CSI RD&D Sol#1 funded projects

Proposal title	Target Area	Applicant firm	Principal Investigator	E-mail	Phone	Itron Grant Manager	Grant manager email	Grant manager phone
Beopt-CA (EX): A Tool for Optimal Integration of EE/DR/ES+PV for California Homes	Integration of EE/PV	National Renewable Energy Laboratory	Craig Christensen	craig.christensen@nrel.gov	(303) 384-7510	Smita Gupta	smita.gupta@itron.com	509-891-3189
Specify, Test and Document an Integrated Energy Project Model	Integration of EE/PV	kW Engineering	Devan Johnson	johnson@kw-engineering.com	(510) 834-6420	Smita Gupta	smita.gupta@itron.com	509-891-3189
Development and Analysis of a Progressively Smarter Distribution System	Planning/Modeling	Advanced Power and Energy Program-UC Irvine	Dr. Scott Samuelsen	gss@uci.edu	(949) 824-5468	Jonathan Wanjiru	Jonathan.wanjiru@itron.com	509-891-3192
Planning and Modeling for High-Penetration PV	Planning/Modeling	SunPower Corporation	Matt Galland	matt.galland@sunpowercorp.com	(510) 260-8499	Jonathan Wanjiru	Jonathan.wanjiru@itron.com	509-891-3192
Advanced Modeling and Verification for High Penetration PV	Planning/Modeling	Clean Power Research	Thomas E. Hoff	tomhoff@cleanpower.com	(707) 224-9992	Smita Gupta	smita.gupta@itron.com	509-891-3189
Improving Economics of Solar Power Through Resource Analysis, Forecasting and Dynamic System Modeling	Planning/Modeling	UC San Diego	Jan Kleissl	jkleissl@ucsd.edu	(858) 534-8087	Stephan Barsun	stephan.barsun@itron.com	509-891-3187
Analysis of High-Penetration Levels of PV into the Distribution Grid in CA	Testing/Demo of Hardware/Software	National Renewable Energy Laboratory	Ben Kroposki	Benjamin.kroposki@nrel.gov	(303) 275-2979	Stephan Barsun	stephan.barsun@itron.com	509-891-3187
High Penetration PV Initiative	Testing/Demo of Hardware/Software	Sacramento Municipal Utility District	Elaine Sison-Lebrilla	esison@smud.org	(916) 732-7017	Stephan Barsun	stephan.barsun@itron.com	509-891-3187