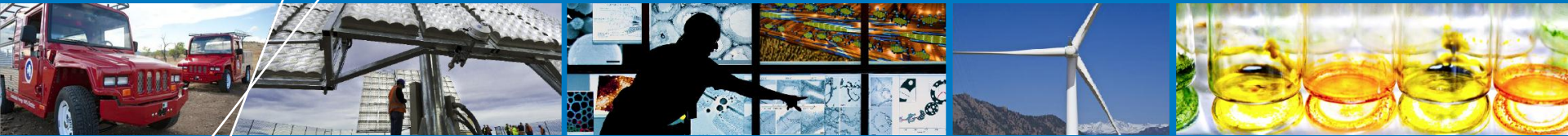


Second Annual SAM Virtual Conference



Online

July 23rd, 2013

Welcome!

- **Welcome to the second annual SAM Virtual Conference!!**
- **The goal of today is to allow users to present and share the many ways that they use SAM**
- **Many thanks go to Janine Freeman, Pam Gray-Hann, Paul Gilman and others for coordinating the conference.**

Logistics

- If you are seeing this slide and hearing me speak, you have overcome many of the potential A/V issues.
- Q&A after each presentation. Probably only have time for 1 or 2 questions. Please press *1 to ask a question and the operator will work with you.
- You can full-screen and control the image yourself.
- Please mute your phone if you are a presenter when you aren't speaking.
- Note that you can chat online with other participants through the system. The speaker cannot see these items in real time.
- Note finally that NREL is controlling the advancement of slides (to reduce possible tech. issues) so each speaker needs to indicate when to move to the next slide.
- We must stick pretty closely to the agenda as people will likely tune in and out according to their interests.
- There are several breaks and lunch but the system will remain operational during that time.

Feedback

- **We would love it.**
- **We will start up a topic on the SAM User Forum Page**
(<https://sam.nrel.gov/forums/support-forum>)
- **We would like to know what you thought was helpful and how you might apply the talks today to your own work.**

NREL's Role

- **We will be coordinating and recording all of the presentations today. We hope to have the presentation videos posted to the SAM website within a few weeks. Note that if you do not want to have that done, please contact us and we will not post your presentation.**
- **While we have coordinated the meeting and hope that it's useful for everyone, we have a limited role.**
 - NREL reviewed the submitted abstracts to make sure they were likely of interest to SAM users.
 - NREL made sure that the PowerPoint slides worked in the webinar system.
 - NREL does not endorse any of the statements or results shown in the presentations.

Conference Agenda

| | | | |
|---|--|--------------------|-----------------------------------|
| 9:00-9:15 | Welcome and Opening Comments | SAM Team | NREL |
| Morning Session 1: Modeling Shading in Solar Simulations | | | |
| 9:20-9:45 | Analytical Approximation of Inter-Row Shading Effects | Chris Deline | NREL |
| 9:50-10:15 | Urban Shading Losses Imported from Rhinoceros 3D | Ryan Welch | Kieran Timberlake Architects |
| 10:20-10:45 | Shading Losses and Gains with Reflectors for Low-X Concentrators | Dallas Meyer | tenKsolar |
| Morning Session 2: Linear Fresnel Modeling | | | |
| 10:50-11:15 | Linear Fresnel Modeling/Validation in SAM | Camille Bachelier | Novatec |
| 11:20-11:40 | Morning Break | | |
| 11:40-12:05 | Comparing SAM and Thermoflow for Linear Fresnel Plants | Luis Coco Enriquez | Universidad Politecnica de Madrid |
| 12:10-12:35 | Modeling Linear Fresnel | Benoit Gourhand | Solar Euromed |
| 12:40-1:30 | Lunch Break | | |
| Afternoon Session: Other Solar Modeling Topics | | | |
| 1:30-1:55 | DC-AC Ratio Optimization | Gordon Woodcock | KACO New Energy Inc |
| 2:00-2:25 | Calculating Solar LCOE and Avoided Costs | Miriam Makhyoun | NC Sustainable Energy Association |
| 2:30-2:55 | Implementing the SAM SDK for a High-Penetration PV Project | Peter Gotseff | NREL |
| 3:00-3:25 | Improving SAM for CSP Modeling in Australia | Keith Lovegrove | IT Power Australia |

Other News

- 2012 Virtual Conference Presentations Still Available
 - <https://sam.nrel.gov/content/sam-virtual-conference-june-20-2012>
 - Video and sound for all presentations
- SAM Beta Version Just Released
 - Improved Modeling of PV, Wind and CSP
 - Bug Fixes and database enhancements
- Watch For:
 - SAM Technical Review Committee Report
 - SAM Validation Study Report
- PVWATTS Beta Released
 - [Http://pvwattsbeta.nrel.gov](http://pvwattsbeta.nrel.gov)
 - Continually updated

The screenshot shows the PVWatts Calculator web interface. The browser address bar displays pvwattsbeta.nrel.gov/pvwatts.php. The page title is "PVWatts® Calculator" and the NREL logo is visible in the top right. The "My Location" section shows "2302 South Eaton Court, Lakewood CO" with a "Change Location" link. The "SYSTEM INFO" section is active, displaying input fields for "DC System Size (kW)" (4), "Array Type" (Fixed Tilt), "DC-to-AC Derate Factor" (0.77), "Tilt (°)" (39.7), and "Azimuth (°)" (180). A "RESTORE DEFAULTS" button is located above the "SYSTEM INFO" section. To the right, the "Draw Your System" section includes a map interface. The "ECONOMICS (Optional)" section is partially visible at the bottom.