



CENTRE FOR RENEWABLE AND SUSTAINABLE ENERGY STUDIES

SAM – Solar Advisor Module

CSP and PV Simulation Software Training



UNEP

United Nations Environment Programme



RENEWABLE & SUSTAINABLE
ENERGY STUDIES

Programme

Tuesday

08:00-08:30	Registration
08:30-10:30	Introduction to Solar Resource Assessment, CSP and PV Part 1 Riaan Meyer, STB and Paul Gauche, PTA
10:30-11:00	Tea Break
11:00-12:30	Introduction to Solar Resource Assessment, CSP and PV Part 2 Riaan Meyer, STB and Paul Gauche, PTA
12:30-13:30	Lunch Break
13:30-14:00	Overview of SAM capabilities (Paul Gilman via Webinar)
14:00-14:30	Working with weather data in SAM (Paul Gilman via Webinar)
14:30-15:00	Specifying financial and incentives assumptions (Paul Gilman via Webinar)
15:00-17:00	Modeling parabolic trough systems, prepare for assignment (Paul Gilman via Webinar)

Wednesday

08:30-10:30	Participants work on assignment (while Paul Gilman sleeps)
10:30-11:00	Tea Break
11:00-12:30	Debrief on assignment (Paul Gilman) Using the parametric simulation option to explore gas backup
12:30-13:30	Lunch Break
13:30-14:30	Modeling PV systems (Paul Gilman)
14:30-15:00	Exploring temperature effects on PV system performance (Paul Gilman)
15:00-15:30	Generating graphs and tables of hourly performance data and project cash flow (Paul Gilman)
15:30-17:00	Q&A and advanced topics (Paul Gilman)

Introductions?

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Contents of this lecture

- Solar Resource Assessment
- Concentrated Solar (Thermal) Power CSP Plants
- Photovoltaic Technology