

Harvesting the Sun: A Community Solar Seminar
Friday, October 31st, 2008

**Overcoming Utility Technical
(and Economic) Issues**

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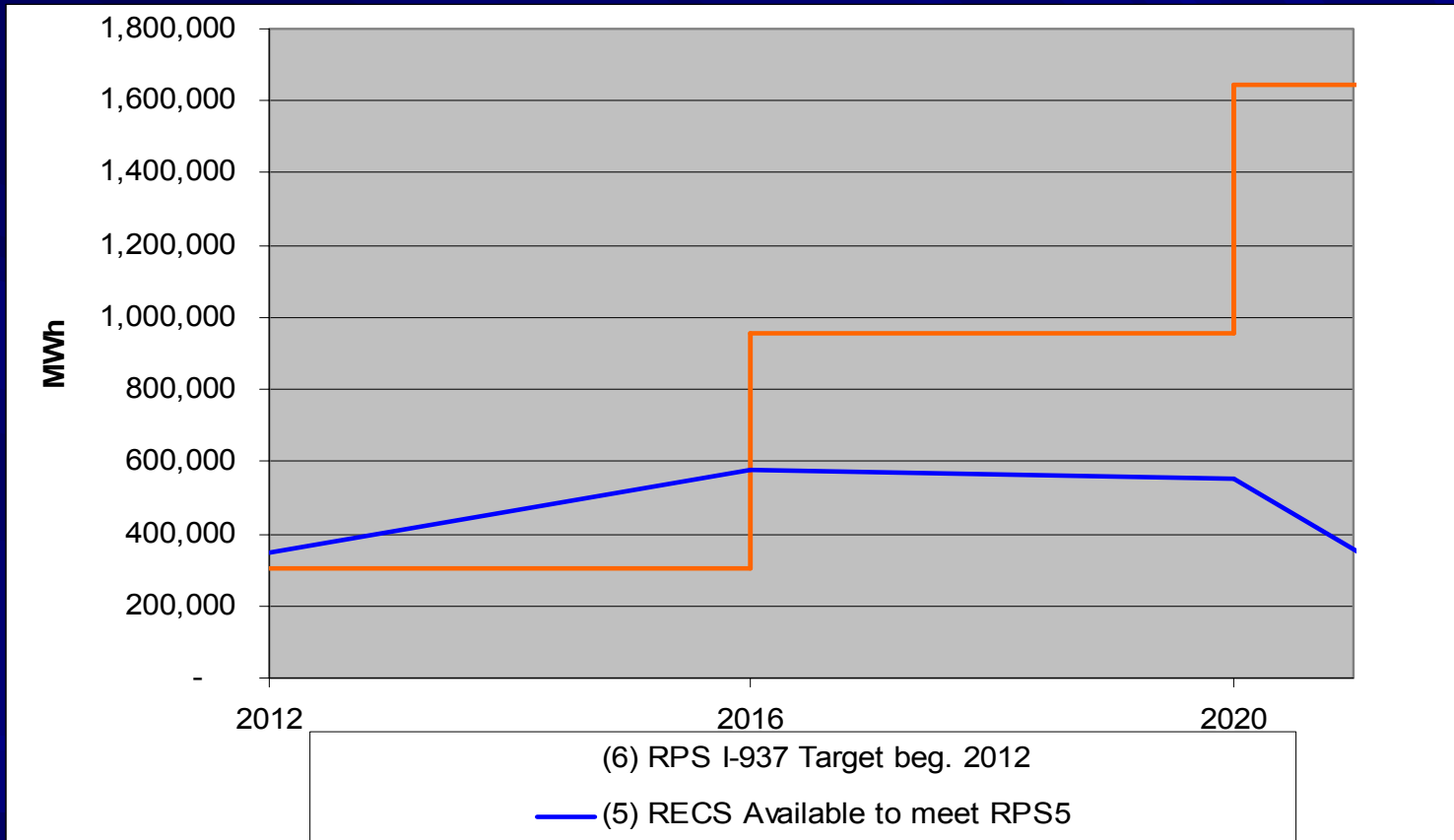
SCL's perspective on renewables & solar

- Meet all load growth with energy efficiency and renewables
- Net zero greenhouse gas utility
- Make investments in cost effective resources
- Support solar infrastructure and other renewables until more cost effective
- Consider appropriate incentives

SCL Challenges: 30,000 foot level

- SCL's Integrated Resource Plan and solar
- Acquire least cost resources and impact on rates
- State law constraints (?)
- I-937: no renewable requirement for SCL before 2016

SCL & I 937



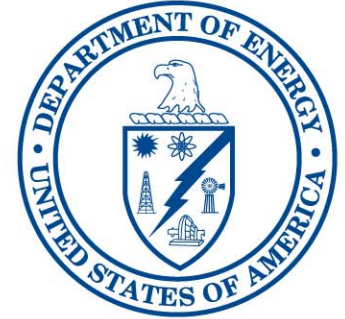
SCL Challenges: Ground level

- Goal is continuous improvement
- Technology and financial considerations are changing quickly
- Antiquated billing system – can't provide production information on utility bill
- Processing of production incentives is labor and paper intensive
- Database upgrade – currently tracking all production & payments with Excel
- Metering challenges
 - Remote and/or aggregate net metering; condos, multiple system owners but same location
 - Metering complex battery systems for production incentive
 - Future metering technologies (AMI/ Smart Grid)
- Installing in a network (specific issue for Seattle)
- Simplified standards for projects over 100 kw (?)
- Need a strategy to guide our efforts

Solar in Seattle

- 500 kW installed, equals about 115 residential systems, 15 commercial systems and 24 demonstration systems funded by SCL customers participating in our Green Power Program
- 2008 Production Incentive: 75 customers; average payment = \$330; average production = 2200 kWh
- Live data monitoring available via web for demonstration projects
- Largest customer-owned system in SCL territory to-date is 18 kW
- Dozens of solar hot water systems, not documented since there's no interconnection application.

SOLAR AMERICA CITIES



A Partnership Program with
the U.S. Department of Energy

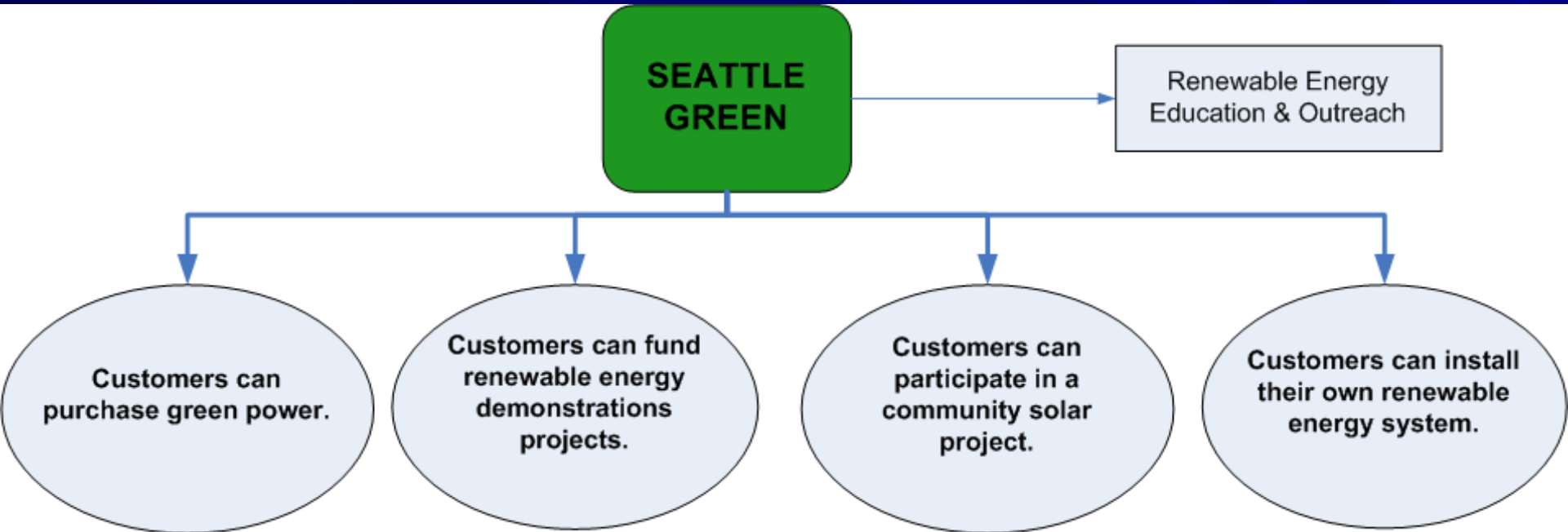
- Support Customer Installations
- Develop Community Solar Model
- Education and Outreach
- Evaluate Seattle's Solar Resource
- Incorporate Solar into City Planning

Community Solar

- Research financial models
- Opportunities to partner
- Conduct market research
- Launch customer funded program



Customer Offerings



Near term Actions

- Need for education and information sharing across many parties
- Workshops:
 - Solar PV, November 8 at REI
 - Solar Thermal, early 2009
- Complete Solar Strategy

- Questions