



**Green Power Use and
Opportunities for Congregations:
*EPA's Green Power Partnership***



***April 29, 2014
1:00 - 2:00 pm ET***

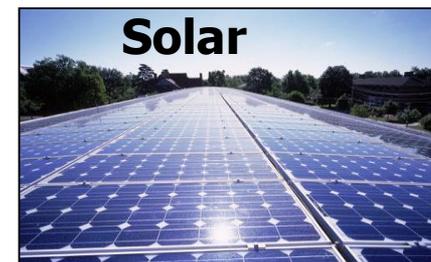
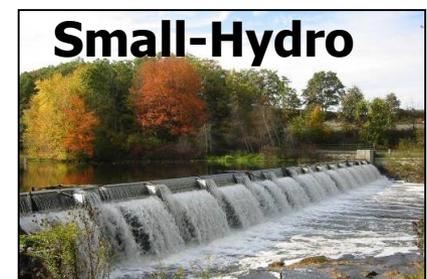
Agenda

- Green Power Market and Products
- EPA's Green Power Partnership
- Other Considerations



What is Green Power?

- Electricity generated from natural resources that replenish themselves over short periods of time, including the sun, wind, moving water, organic plant and waste material (biomass), and the Earth's heat (geothermal).
- From facilities built in last 15 years.



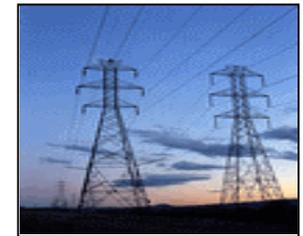
Green Power Markets

- **Mandatory markets** exist because of policy decisions, such as state Renewable Portfolio Standards (RPS).
- **Voluntary markets** are driven by consumer preference.

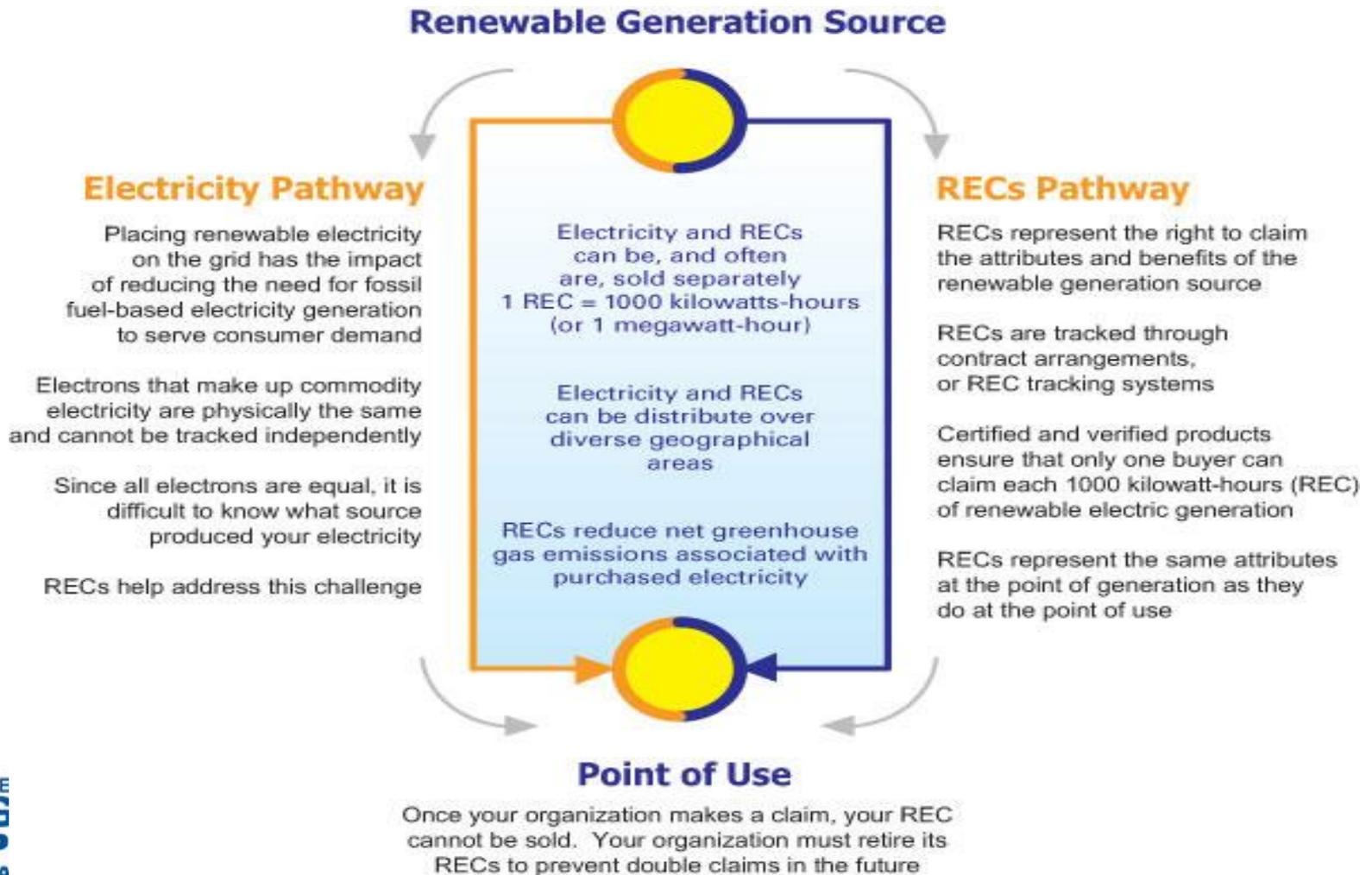


Green Power Procurement Options

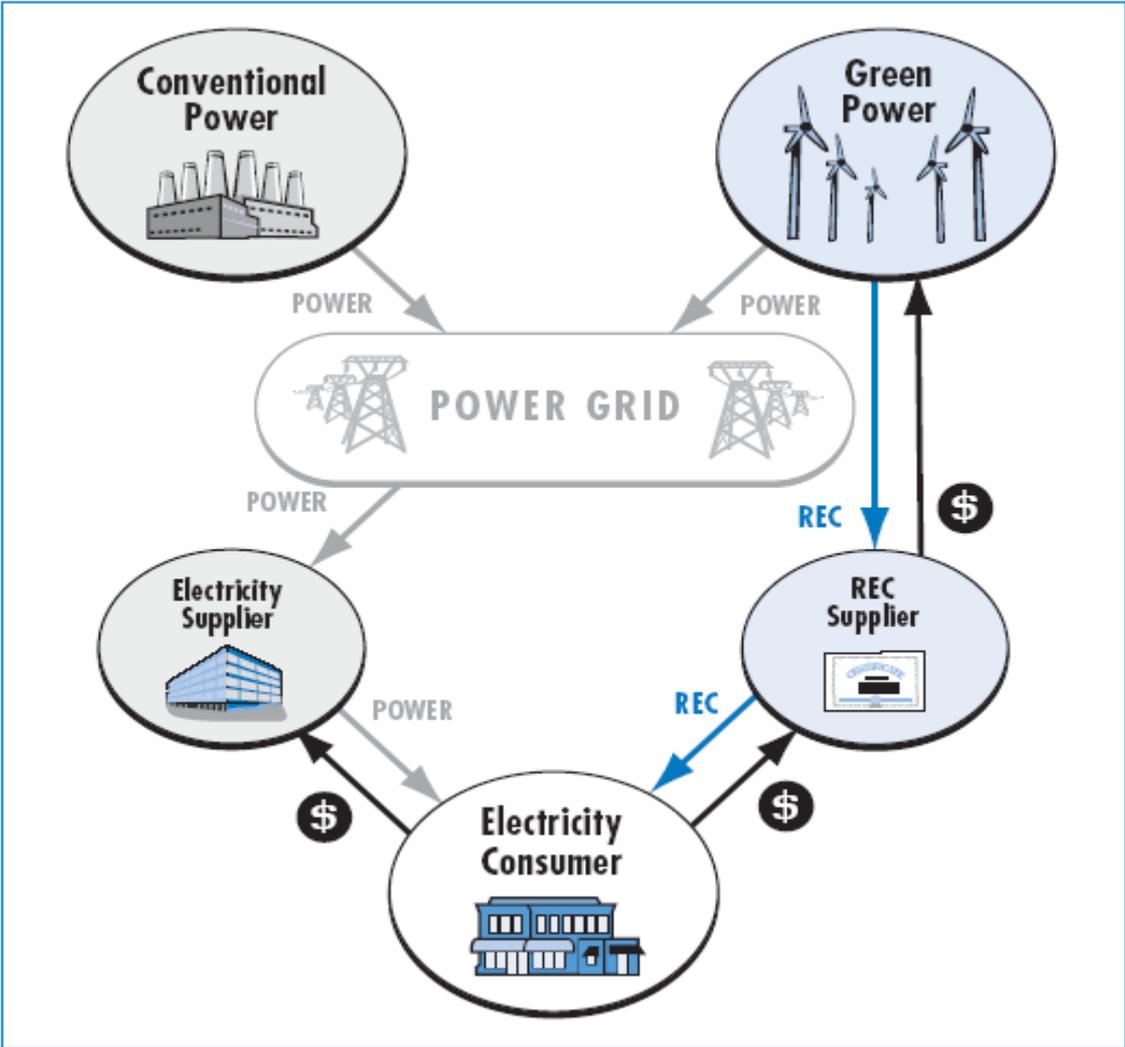
- Renewable Energy Certificates (RECs)
 - The technology and environmental attributes of electricity generated from renewable resources (1 REC = 1 MWh)
 - Does not include the underlying electrons – “unbundled”
 - Available to all electricity users
- Green Power Electricity Products
 - Green power offered by utility suppliers that is all, or partially, generated from renewable sources
 - “Bundled” product that includes both the RECs and the underlying electrons
- On-site Generation
 - Renewable energy system installed on-site (e.g. solar panels, wind turbine)
 - Produces both electricity and RECs from the on-site source
 - Self-financed installation or via a third-party PPA
 - To claim use of green power, host must retain/retire RECs
- Green Power Locator Tool:
<http://www.epa.gov/greenpower/pubs/gplocator.htm>



More on RECs



REC Transaction Process



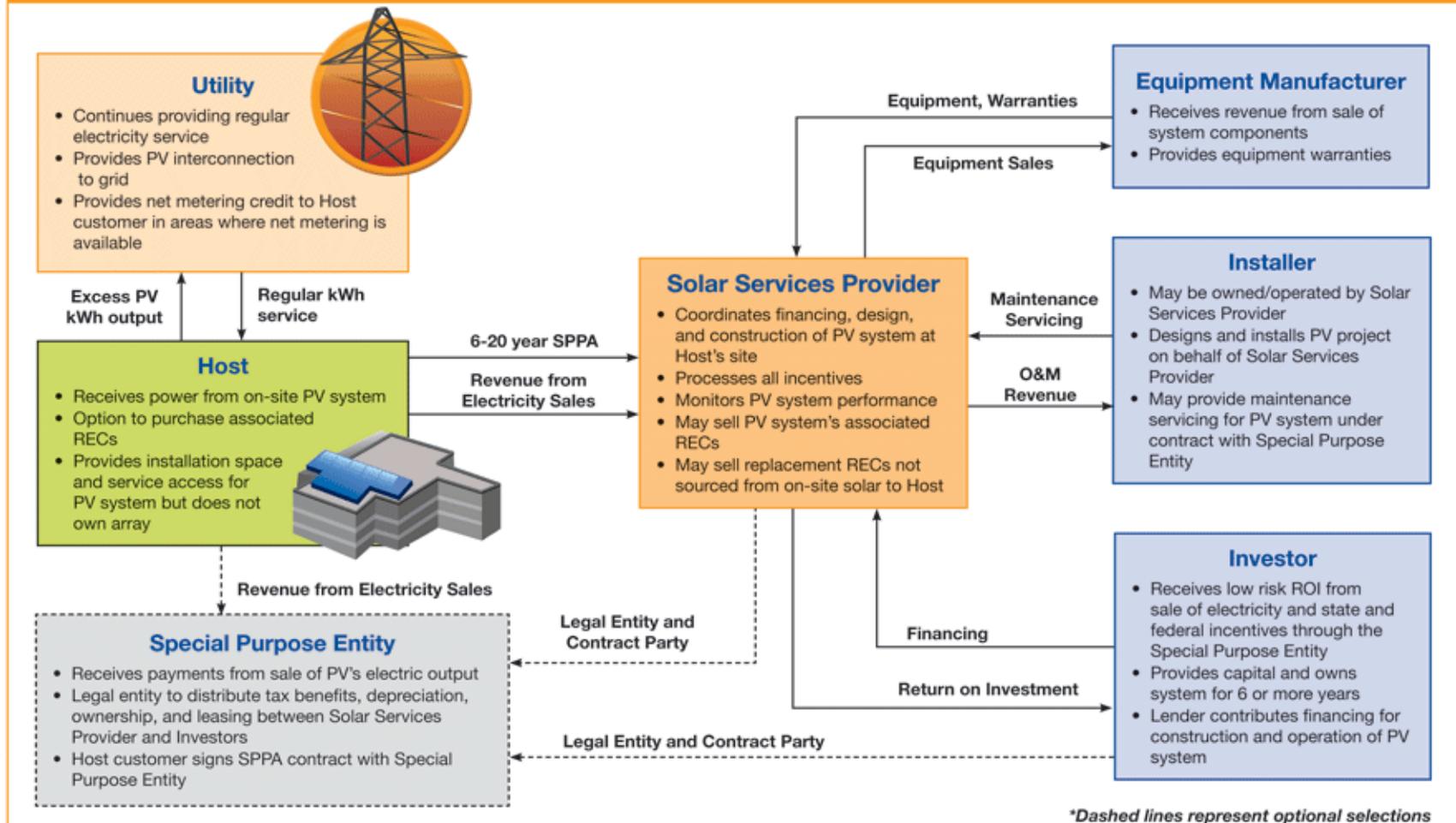
Solar Power Purchase Agreements (SPPA)

- SPPA is a financial arrangement in which a third-party developer owns, operates, and maintains the photovoltaic (PV) system, and a host customer agrees to site the system on its property and purchases the system's electric output for a predetermined period
- Addresses many of the traditional barriers to adoption for organizations looking to install solar systems:
 - high up-front capital costs
 - system performance risk
 - complex design and permitting processes
- Learn more at:
www.epa.gov/greenpower/buygp/solarpower.htm



SPPA Process & Participants

Roles of SPPA Participants



Benefits & Challenges for Host

Benefits

- No upfront capital cost
- Predictable energy pricing
- No operating risk
- Projects can be cash flow positive from day one
- Demonstrable environmental commitment
- Potential to make claims about being solar powered
- Potential reduction in carbon footprint
- Potential increase in property value
- Support for local job market

Challenges

- May experience more complex negotiations than buying PV system
- Administrative cost of paying two separate electricity bills if system does not meet 100 percent of demand
- Site lease that may limit ability to make changes to property that would affect PV system performance or access to the system
- Understand tradeoffs related to REC ownership/sale



Aggregated REC Purchasing

- Helps accelerate the adoption of green power
- Enables participating organizations to purchase renewable energy in a simple and efficient manner
- Ensures that participating organizations are receiving competitively priced RECs through demand aggregation and administrative efficiencies
- Demonstrate leadership within the church community and establish a standard that will influence and guide the use of renewable energy in congregations across the country
- Green Schools Alliance Purchasing Consortium:
 - Faith-based schools are welcome to join the Consortium and purchase RECs. Visit www.greenschoolsalliance.org/programs/green-power-program/join-green-power-consortium for more information.



EPA's Green Power Partnership

- Voluntary program encouraging use of green power as a way to reduce environmental impacts of electricity use
 - > 1,300 partners
 - Partners include Fortune 500® companies; small and medium sized businesses; local, state, and federal governments; and colleges and universities.
 - Partners use >28 billion green power kilowatt-hours annually
 - Carbon avoidance equal to that created by the electricity use of more than 2.7 million American homes



Partnership Requirements

- EPA supports Partners' procurement of green power by offering advice, technical support, tools and resources, and recognition.
- Partners agree to procure green power and provide an annual update.
- In return, EPA commits to:
 - Provide public recognition
 - Provide procurement and communications assistance, as requested
 - Provide a brief description of the Partner's green power use on EPA's website

	Partnership Benchmark	Leadership Benchmark
If your annual electricity use is:	You must, at minimum, use this much green power:	You must, at minimum, use this much green power:
Over 100,000,000 kWh	3% of your use	30% of your use
10,000,001-100,000,000 kWh	5% of your use	50% of your use
1,000,001-10,000,000 kWh	10% of your use	100% of your use
Under 1,000,000 kWh	20% of your use	N/A

EPA's Green Power Partnership: Helping You Leverage Your Green Power Use

- **Credible Benchmarks & GHG Quantification**
 - Metrics for "How much green power is enough?"
 - Definition of eligible renewables & products
 - GHG reduction guidance and calculations
- **Planning & Implementation Resources**
 - Green power locator
 - Purchasing strategy guidance
 - Marketing and communications support
- **Recognition**
 - Top Partner Lists
 - Use of the Partner mark →
 - Green Power Leadership Awards
 - Promotional opportunities
- **Best Practices & Innovation**
 - Collaborative procurement



Recognition & Promotional Opportunities

- Press release templates
- Quotes from EPA
- Partner Mark
- Green Power Leadership Awards
- Quarterly Top Partner Lists
- Special Advertising Supplements – *Bloomberg Businessweek*
- Monthly Partner Spotlight piece
- Green Power Equivalency Calculator
- Guidance on making environmental claims



Partner Recognition

- Quarterly Top Partner Rankings include National Top 100, Top 30 Retail, Top 30 Tech & Telecom, and more.

- Current Top 10:

Intel Corporation

Koh's Department Stores

Microsoft Corporation

Whole Foods Market

Google

Wal-Mart Stores, Inc.

Staples

Apple

City of Houston, TX

U.S. Dept. of Energy



- Green Power Leadership Awards recognize exceptional achievement among EPA Green Power Partners and among green power suppliers.

- Awards presented at the Renewable Energy Markets Conference in the fall.



- Green power use is a positive news story, great for outreach to stakeholders.



EPA's 1,300+ Green Power Partners



JPMORGAN CHASE & Co.



STATE STREET



Metropolitan Pier and Exposition Authority

Managing McCormick Place Complex and Navy Pier



GPP Updates

- GPP Webinar series:
www.epa.gov/greenpower/events/index.htm
- April 21: Quarterly Top Partner Rankings released:
www.epa.gov/greenpower/toplists/index.htm
- Sign up for our monthly program updates and other GPP news on our website: www.epa.gov/greenpower/contactus.htm
- [GPP LinkedIn group](#): 500+ members



Want to Know More?

- Basic Information

- Overview of the Green Power Partnership: www.epa.gov/greenpower
- Full details of program requirements: www.epa.gov/greenpower/documents/gpp_partnership_reqs.pdf
- EPA's Green Power Locator: www.epa.gov/greenpower/pubs/gplocator.htm

- More Questions?

- Mollie Lemon, 202.343.9859, lemon.mollie@epa.gov
- Jacob Sneed, ERG, 617.357.4628, jacob.sneed@erg.com
- Anthony Amato, ERG, 781.674.7225, anthony.amato@erg.com

