



PETRA SOLAR®

Intelligent Energy By Design

The Leader in Utility Solar and Smart Grid Solutions



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Petra Solar

Petra Solar serves the utility market through the design, manufacture and sale of innovative **Utility Solar, Smart Grid** and **Grid Reliability** solutions at unprecedented costs

- Market and technology leader
 - World's first, pole-attached, smart grid SunWave™ solar system
 - Complete AMI & SMART GRID and Solar integrated solution
 - More than a two-year lead over any other competitor in this space
- World Class Management Team
 - Veterans of solar, semiconductors & communications industries
 - Extensive utility management and operations experience on board
 - Municipal, state and federal energy policy and regulation
- Currently being deployed in 200,000 system project



World's First Pole Mounted Solar Utility Contract

- \$200MM Contract with one of the nation's leading utilities
- World's First NRTL Approved Pole Mounted System
- World's first CSA registered factory for AC Module Assembly
- 200,000 SunWave™ systems to be deployed over 3.5 years
- First shipment **Sept 1, 2009**



PSEG



Wall Street Journal, Friday July 31st, 2009

Compelling Value Proposition



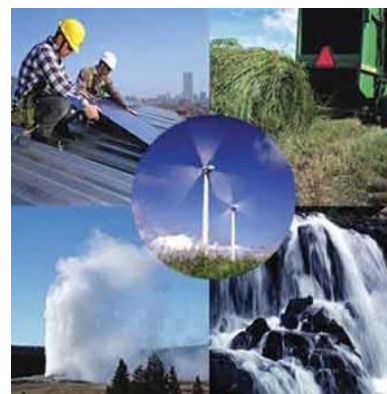
Breakthrough Pole Mounted Solar/Smart Grid Solution Eliminates Key Bottlenecks

- Enables profitable, direct utility ownership of solar
- Predictable and shovel ready
- Increase grid reliability and address solar intermittency
- Accelerates ROI and payback
- Simultaneously enhances existing asset base
- Installation shifted to leverage existing utility labor and asset force significantly **reducing risk, time-to-market and acceptance**
- Proven, accepted comprehensive solution based on **differentiated IP**
- Enables **true distributed single-panel solar** deployment across enormous pole-based assets nationwide.
- Pole mounted solar is natural path of least resistance to build smart grid infrastructure

Enabling Clean Energy and Economic Development

Petra Solar approaches the deployment of SunWave™ systems with a commitment to bring economic benefits to all stakeholders

- “Shovel ready” realizes benefits almost immediately
- Creation of green jobs for installation *and* manufacturing
- Utilities, municipalities, and state agencies monetize value of pole assets; minimizes site related issues
- PV generation contributes to achievement of RPS requirements and contributes to peak load management
- Communication capabilities enable Smart Grid applications and serves as a foundation for municipal communication needs



Immediately Deployable

- Fast and simple install
- External/outsourced or internal labor force
- Utility, municipal, street lighting, or tree cutting labor crews
- Multiple pole types: aluminum streetlamps, wood utility poles, etc
- Lowest cost of capital
- Addresses permitting/siting risks
- Cost competitive against traditional solar



Italy and Petra Solar

Petra Solar views Italy as having great potential for partnership

- Developing relationship with utilities, renewable companies and power developers
- Leverage Italy's world class manufacturing platform and highly skilled labor
- Aligned with Italy's interests in renewable energy





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Thank You