





Scaling Renewable Energy

MWCOG Discussion



Today's Discussion

Intro to Edison Energy – Powered by Altenex Renewables 101: PPA Basics & Fundamental Challenges Getting to Scale: Challenges & Our Approach



Edison Energy & Clean Economy Development



Renewable Energy Advisory

- > Fully independent advisor
- > Comprehensive market analysis
- > Needs, economics, risk analysis
- > Onsite & offsite strategies
- > Commercial execution
- Ongoing audit & performance assurance



Sustainability Consulting

- Insights, analysis & innovative strategies to set & achieve sustainability goals
- Knowledge & insights to inform decisions for your organization
- Improve energy & carbon performance
- Expert support & training to achieve leadership status



Energy Supply Advisory

- Best-in-class energy procurement
- Optimized supply & risk management
- Quality energy data collection & reporting
- Leading-edge rate & price analytics



Engineering Solutions

- Full-service energy consulting, engineering & project development
- Analysis, design, development & implementation of energy efficiency projects
- Building system optimization
- > New and existing Cx
- > Real-time energy management
- Power generation solutions



Company History

\$5 Billion+

of energy spend managed

7,500+ customer sites and 250 solar project sites >\$3 Billion in energy projects funded 12 of the Fortune 50

are customers p

2.2+ gigawatts of

offsite renewables procurement

Managing 500 M+ sq. ft.

of client facilities' energy demand

SELECT LIST OF CUSTOMERS



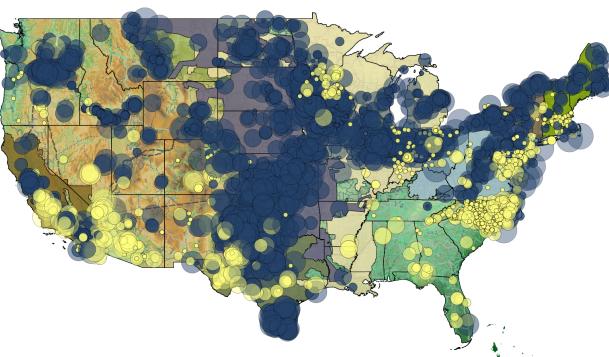


The Offsite Renewables Market – A Lightning Orientation

> Historically, the offsite renewable energy market has been difficult to access and has lacked transparency. Edison Energy has developed a proprietary database that provides detailed information and analysis on over 5,000+ renewable energy projects. This data is used to help customers identify clean power purchasing opportunities that meet their selection criteria.









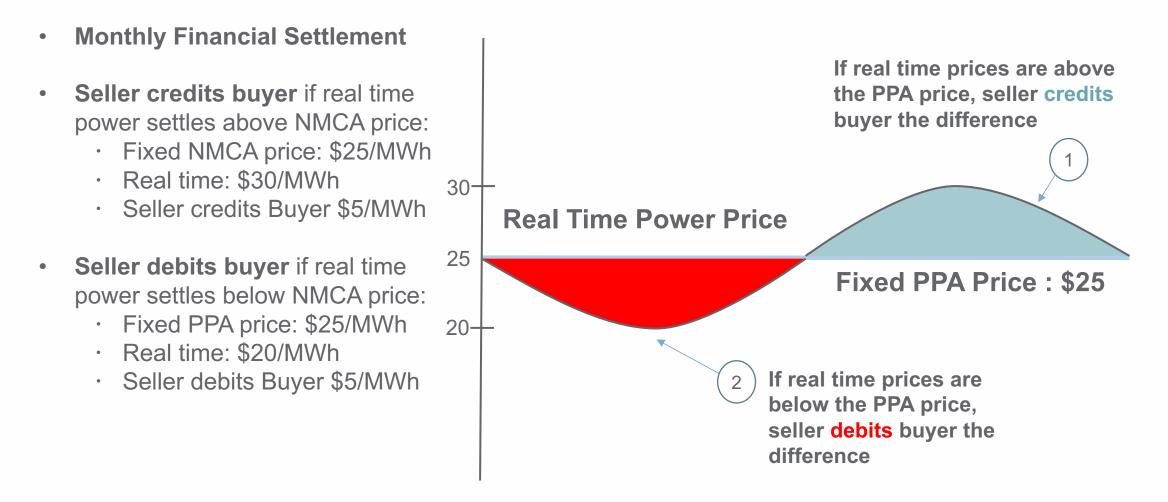
Financial PPA / Contract for Differences – Structure

- > The majority of large-scale renewable energy purchase agreements are structured as contracts for differences:
- Mostly wind and solar projects with 10-15 year contract terms
- Project sells unit contingent generated renewable energy to the ISO/RTO and receives the spot price (floating market valuation)
- Project provides environmental attributes to the buyer (as well as the generated energy if physical delivery is structured)
- Buyer pays fixed \$/MWh for the energy delivered and captures the difference between market (floating) and fixed PPA price





Financial Contract for Differences – Settlement

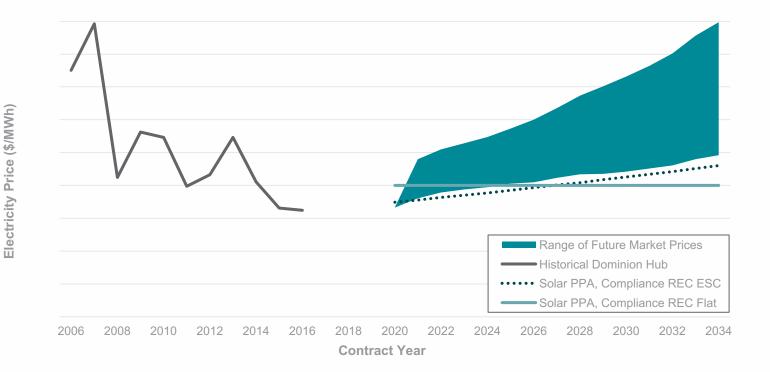




Sample Offsite PPA Economic Basics

Sample project is an 18 MW solar project in PJM with competitive economics, sized to the client's needs.

Expected Performance, Sample Project vs Market





How Do We Get to Scale on Renewables?

ONSITE RENEWABLES: Compelling, but scale-challenged. **OFFSITE PPAs**: Scalable, but complex.

The market is ripe for innovation and evolution:
Utilities: A mixed landscape, but some progress.
New products: Starting to come to market.
Aggregation: A lot of history here: Let's talk about it...



Altenex PowerBloks[™]

Altenex has partnered with investment-grade financial counterparties to fundamentally change the way that renewable energy is purchased:



- A project enters into a contract with a single investment-grade financial counterparty that assumes and warehouses the project offtake.
- This provides the project with the certainty required for financing.

- The financial institution's warehoused offtake is structured into PowerBloks PPAs.
- Edison Energy customers can access PowerBloks as another renewable energy option.
- Buyers sign a 10 year PPA directly with the financial institution.
- Every PowerBlok is a 10-year, 10 MW tranche of power with consistent commercial terms.
- Buyers make purchasing decisions independently and on their respective schedules.

Individual C&I Buyers

University 1-30 MW

Thank You.

Blaine Collison (202) 669-5950 <u>blaine.collison@edisonenergy.com</u>

EDISON energy.

INSIGHTS. ACTIONS. RESULT<mark>S</mark>. The information contained in this communication is for general purposes only and is not intended and should not be construed, as legal, accounting, or tax advice or opinion provided by Edison Energy. The material contained herein may not be applicable or suitable for the recipient's specific circumstances or need and should not be used as a substitute for consultation with a professional accounting, tax, legal or other duly licensed advisor.

The information contained herein is intended to communicate the current state of the renewable energy markets across various geographies. Any information contained within this document is subject to change because of, but not limited to, regulatory policy, federal and state tax legislation, commodity pricing, dynamics in the capital markets, commercial terms unique to each project and overall market conditions.

Any marketing or solicitation included herein for or related to a National Futures Association jurisdictional activity is being made by and on behalf of our affiliate Altenex. Altenex is registered as an Introducing Broker with the NFA and additional information on Altenex is available at https://www.nfa.futures.org.

