



Introduction

Rick Brown, PhD, President TerraVerde Energy

- Founded 2009
- Independent Energy Advisor
- CASBO Strategic Alliance Partner since 2013
- Solar at over 200 sites: schools, municipal facilities, transit and water agencies
- \$50 Million on Prop 39 Energy conservation measures
- Battery storage at 70 sites
- TerraGrid

Cary Garcia, Best Practices Coordinator, LGC/SEEC

Webinar Purpose

- Describe changing energy policy and market conditions and evolving technologies
- Identify new opportunities for public agencies to generate cost savings and new revenues, and, meet sustainability and climate policy goals

Solar: Current Situation

1. Policy Issues

- TOU Shift
- CCA Net Metering

2. Commercial Issues

- Asset Management
- Project Performance Reporting
- Market Consolidation

3. Technology Issues

Cost/Watt



Solar: What's Next?

1. Policy Issues

- NEM 3.0
- DAC Preferences/Programs
- ITC Ruling

2. Commercial Issues

 Distributed Energy Resource Programs

3. Technology Issues

Smart Inverters,
 Dispatchable Loads



Current Situation

1. Policy Issues

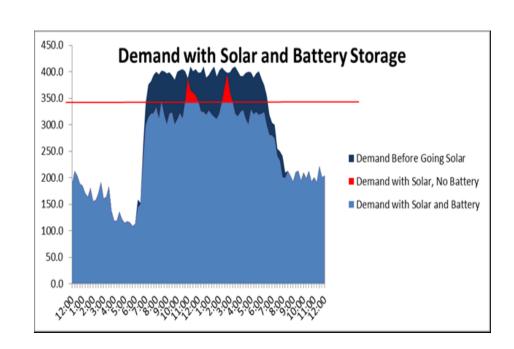
- SB 2868
- Grid Services
- SGIP/Battery incentives

2. Commercial Issues

- Asset Management
- Business Models

3. Technology Issues

 Sizes continue to evolve (i.e. no standard size)



Battery Storage: What's Next?

1. Policy Issues

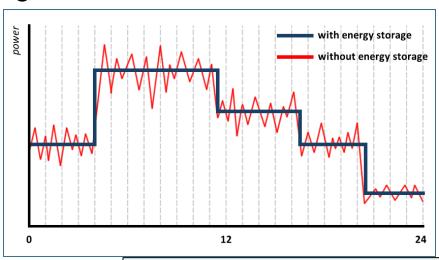
- Round Trip Efficiency/Measuring GHG Impacts
- Multiple Use Applications

2. Commercial Issues

Market transformation/Pricing

3. Technology Issues

- Telemetry/security
- Smart inverters



Community Choice Aggregation

1. Definition

"Community Choice Aggregation, also known as Community Choice Energy (abbreviated CCA and CCE by various parties), is a local, not-for-profit governmental program that buys and may generate electrical power on behalf of its residents, businesses, and governmental entities."

2. Current Situation

- CCAs Currently Serve 1.85 Million Ratepayers
 - https://cleanpowerexchange.org/cali fornia-community-choice/

3. What's Next

- PCIA
- CPUC Oversight?

Operational CCA/CCEs

MCE Clean Energy

(includes Marin and Napa Counties, parts of Contra Costa and Solano Counties [1])

Sonoma Clean Power (includes Mendocino County in mid-2017)

Lancaster Choice Energy (2)

Clean Power San Francisco

Peninsula Clean Energy (San Mateo County)

Redwood Coast Energy Authority

(Humboldt County)

Silicon Valley Clean Energy (Santa Clara County)

Town of Apple Valley (3)

2018 Launch (anticipated)

City of Solana Beach (4)

City of San Jose (5)

Contra Costa County
(as part of MCE Clean Energy)

East Bay Community Energy (Alameda County)

Los Angeles Community

Choice Energy (Los Angeles County)

Monterey Bay Community Power (Monterey, Santa Cruz and San Benito Counties)

Sierra Valley Energy (Placer County)

Valley Clean Energy Alliance (Yolo County, Cities of Davis and Woodland)

Exploring / In Process

City of Hermosa Beach (6)

City of Pico Rivera (7)

City of San Jacinto (8)

Butte County

Fresno County

Invo County

Kings County

Nevada County

Riverside County

San Diego County

San Joaquin County

San Luis Obispo County*

Santa Barbara County*

Solano County

Ventura County*

*Central Coast Tri-County

Questions



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