Peninsula Clean Energy is San Mateo County’s not-for-profit, community-controlled energy provider. We are reducing greenhouse gas emissions and offering customers innovative programs with over **$35 million in savings** (to date).

- **50% renewable**
- **90% GHG-free**
- Priced 5% below PG&E

- **100% renewable**
- $0.01/kWh over ECOplus

- **~290,000** enrolled accounts
- **5,000+** opt-up to ECO100
- **97.6% participation rate**
## CCA Programs

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Federal & State Law

- Historically has focused on increasing competition with the utilities:
  - Generation
    - Wholesale Merchant Generation
    - Qualifying Facilities
    - NEM
  - Transmission
    - FERC Order 1000
  - Distribution (just a smattering)
    - Sec. 353.1 (2001) – IOU shall consider nonutility DER investments to offset distribution system investments
    - Sec. 8360 (2009) – Smart Grid Investments
    - Sec. 769 (2013) – distribution resource planning to ID optimal locations
    - Sec. 1339 (2018) - microgrids

Status: So many tools...but so little movement?
“Regulators set rates; utilities get guaranteed returns; investors get sure-thing dividends. It’s a model that hasn’t changed much since Thomas Edison invented the light bulb. And it’s doomed to obsolescence.”

- David Crane, 2013

“It is my intent that in 2-3 years, we will move beyond questions like how to quantify and operationalize the locational value of DERs, towards a focus on the relationship between the IOUs, consumers, third party DERs providers and the California Independent System Operator (CAISO)...”.

- President Michael Picker, 2014
What’s Needed = ACE

A Rational Transition of the IOU Business Model to the 21st Century

||

Break the Cycle of $$ invested + % return = Profit

| V

Outcomes Met = Profit
Fundamental Electric Sector Reform via Legislation

(1) **Fully Unbundle T-D-G services**
   - Vertical integration coupled with biz model issues creates wrong incentives
     - Unlock T vs. D vs. Generation/EE

(2) Poles & Wires business as usual => **Distribution System Operator**
   - Three functions: poles & wires; system operation; grid services market
   - Cost-cap regulation + Performance-based Compensation
     - Fix revenue but offer opportunity to lower costs with DERs/EE
     - Create clear operating requirements & procedures to unlock DERs
     - Incent deployment of DERs - Interconnection/collaboration

(3) **Rationalize Provider of Last Resort** → CCAs serve +90% of energy users

(4) Strengthen CCAs to be **community energy providers** they already are

(5) Ensure market access to aggregated **data** → Unleash innovation (protect privacy & security)
Questions?

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