



# Community Choice Energy

**A Local Energy Model to Green the Grid, Provide Customer Choice  
and Boost Local Economies**

Wednesday, September 23, 2015  
Midcoast Community Council

Presented by:

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# How Does It Work?

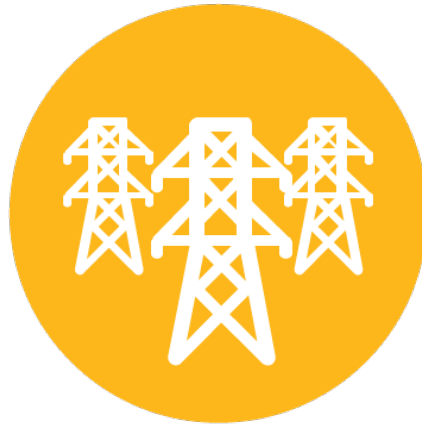
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***CCE leverages the market power of group purchasing and local control.***

CCE allows communities to pool their electricity demand in order to purchase and potentially develop power on behalf of local residents, businesses, and municipal facilities.



Peninsula Clean Energy purchases electricity from renewable energy sources.



Utility companies deliver energy, maintain lines and bill customers.



Customers benefit from affordable rates, local control, and clean energy!

# Basic Program Features

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## ***“CCE: The Biggest Change You’ll Never Notice”***

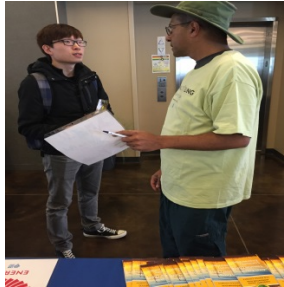
- Joint Powers Agency: Local governments participate by passing an ordinance
- Utility (PG&E) continues to provide consolidated billing, customer service, line maintenance
- CCE electric generation charges appear as a new section of customer bill; all other charges are the same
- CCE becomes default electric provider. Customers receive a *minimum 4 opt-out notices over 120 days and can return to PG&E service any time.*



# Why CCE in San Mateo County?

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- ✓ San Mateo County fosters a culture of innovation, environmental health and clean technology
- ✓ Became aware of Marin and Sonoma's positive results
- ✓ County and its cities have aggressive Climate Action goals
- ✓ Intrigued by consumer and local economic benefits
- ✓ Local advocacy groups supporting the effort; feedback from public and business community has been positive
- ✓ Potentially a very good fit for San Mateo County and Cities





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## Frequently Asked Questions

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Will my electricity service be altered? Will I be treated differently if I have an issue with my power supply and I am a CCE customer?

I have solar panels on my house, how will this program affect me?

What about programs for low-income individuals?

Will I still have access to PG&E's energy efficiency programs?

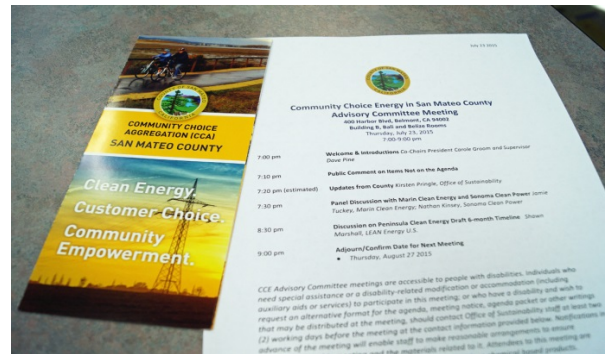
Why is CCE an "opt-out" program? Why do people choose to opt out?





# CCE in San Mateo County

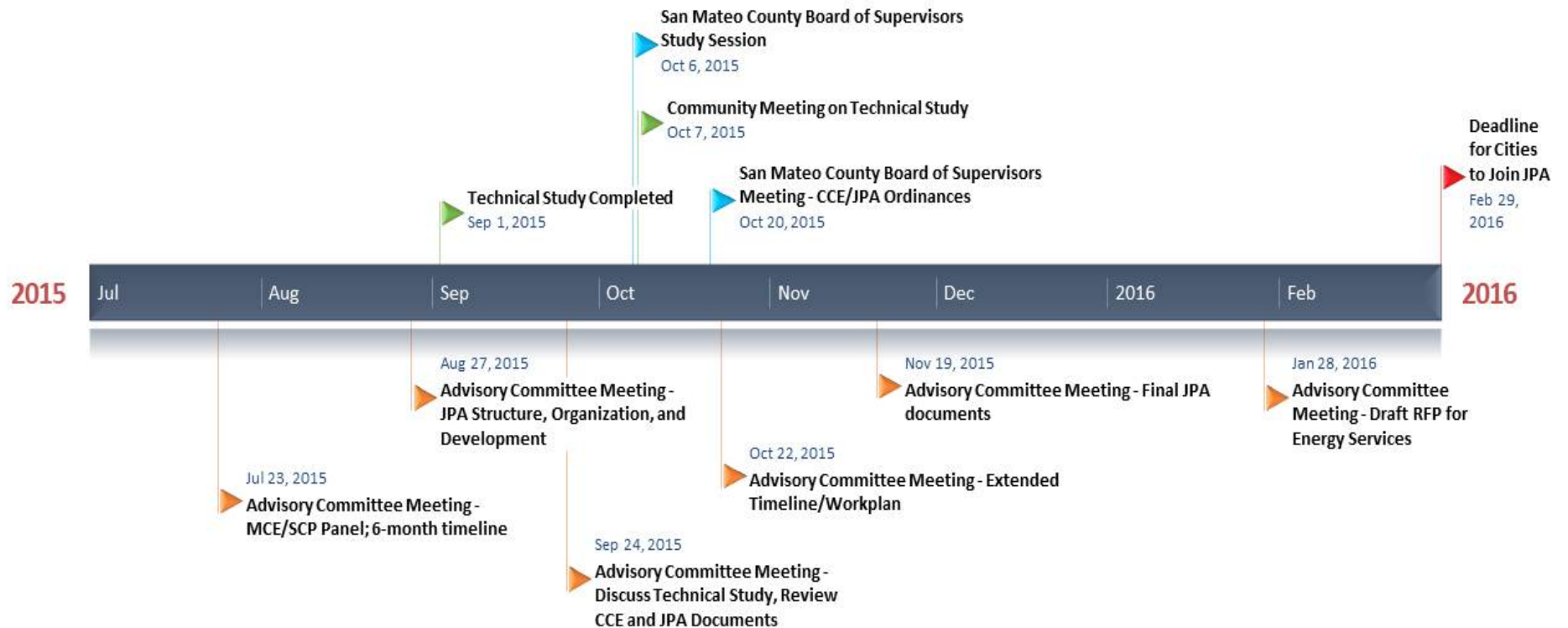
- Led by County; All 20 cities participating in technical study
- Countywide Technical Study – Study completed; review at 9/24 Advisory Committee meeting
- Community & stakeholder engagement: Stakeholder database, e-notifications, website, educational workshops, 1:1 briefings and community events
- Monthly Advisory Committee meetings
- Return to Board of Supervisors in October for study results and Phase II funding
- Form JPA in February 2016; Start serving customers in Fall 2016



# CCE in San Mateo County



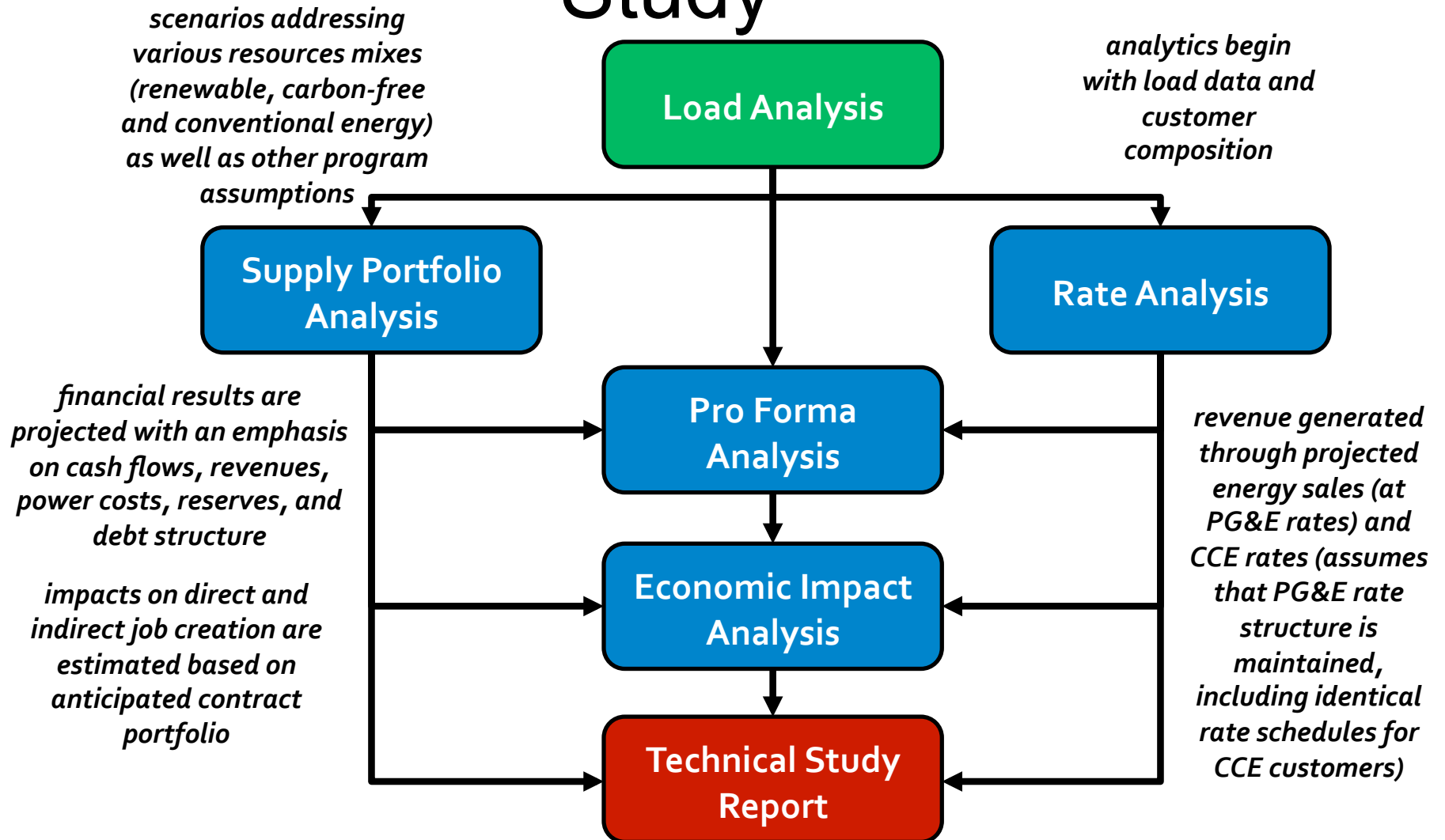
## Draft Peninsula Clean Energy Project Timeline





# Technical Feasibility Study

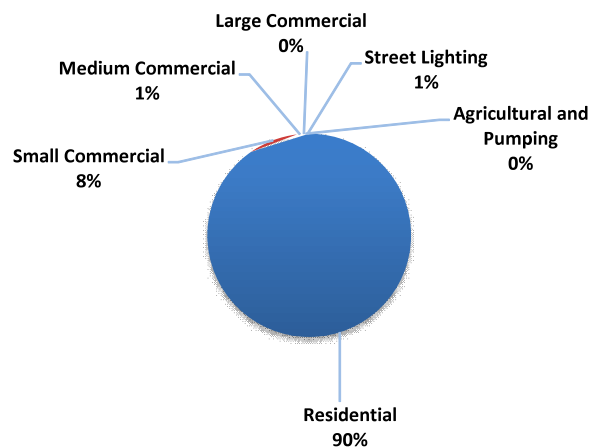
# Key Elements of the Technical Study



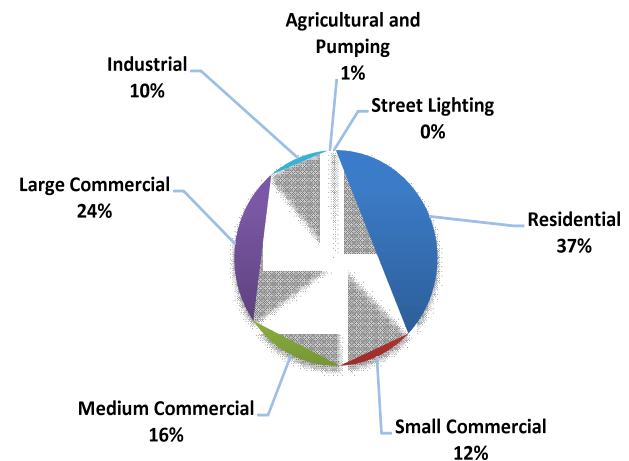
# County Load Composition

- Analyzed two years of PG&E Item 16 load data for all County jurisdictions
- Used most current 12-months of consumption data and most current month of customer counts for entire technical study
- Residential accounts for 90% of total customers, but 37% of total consumption
- Large commercial accounts for less than 0.5% of total customer, but 24% of total consumption

**Customer Composition by Rate Class**



**Electric Consumption by Customer Class**



## CCE Supply Scenarios

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- Unbundled renewable energy certificates excluded from resource mix
- Nuclear- and coal-based energy also excluded from resource mix
- **Scenario 1**: Baseline, minimum 35% renewable energy content scaling up to 50% by 2030
- **Scenario 2**: Minimum 50% renewable energy content scaling up to 75% by 2030; reduced overall GHG emissions relative to PG&E projections
  - Large hydro resources to be used for non-renewable, GHG-free supply
- **Scenario 3**: 100% renewable energy content with significant GHG emissions reductions

## Key Findings and Conclusions

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- Scenario 1 highlights CCE program viability on a rate competitive basis
- Scenario 2 highlights CCE program viability on renewable and carbon-free content basis (w/rate competitiveness)
- Scenario 3 highlights the CCE rate premium under a 100% renewable option as well as opt-out risk/uncertainty
- No “correct” answer, but in general terms, the technical study indicates that the Peninsula Clean Energy program could be economically viable while also achieving the County’s environmental objectives

# Risks and Uncertainties

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- PG&E rate uncertainty (generation rates and exit fees)
- Length of current wholesale energy price trough
- Availability of large hydro resources to meet carbon-free content goals
- Opt-out rate uncertainty
- Overall program size given participation of specific jurisdictions
- Credit structure for power supply
- Future CCE specific legislation
- Regulatory changes around renewable and capacity mandates

# Key Dates Thru End February 2016

Date	Group	Topic(s)
<b>September 1</b>	Tech Study Complete	
<b>September 15</b>	Workshop for City Staff	CCE update; preparing for coming months
<b>September 24</b>	Advisory Committee Mtg.	Tech study results and recommendations
<b>October 6</b>	<b>County BOS Study Session</b>	Tech study results; updated project/JPA plan; que-up ordinances
<b>October 7</b>	<b>Community Workshops (2)</b>	Burlingame and Redwood City
<b>October 20</b>	<b>County BOS Phase II Approvals</b>	Phase II funding; CCE and JPA Ordinances
<b>October 22</b>	Advisory Committee Mtg.	Update on BOS actions; Phase III workplan; dates/materials for cities
<b>November 19</b>	Advisory Committee Mtg.	RFP for marketing and other vendor svcs; other topics TBD.
<b>Nov-February</b>	City study sessions, public hearings, City Council votes	Program and JPA Plans; Feedback and local ordinance adoption

## For More Information

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