

Building Decarbonization and Grid Harmonization in a Clean Utility Future



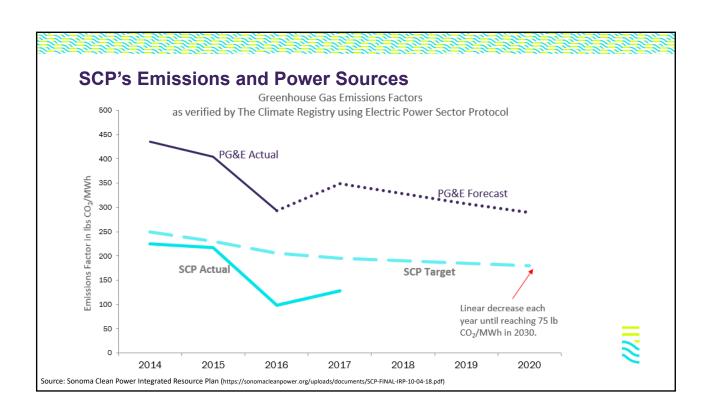
Who is Sonoma Clean Power?

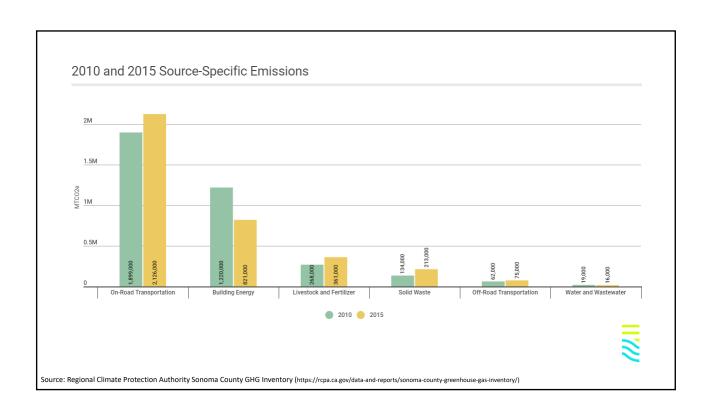
- Not-for-profit public agency that started serving customers in 2014.
- First stated mission of the joint power's authority establishing SCP is "reducing greenhouse gas emissions in Sonoma County and neighboring regions."
- Generates electricity for approximately 600,000 customers in California's Sonoma and Mendocino counties.
- Pacific Gas & Electric (PG&E) provides distribution of electricity.
- SCP customers pay for, and can participate in, PG&E programs.



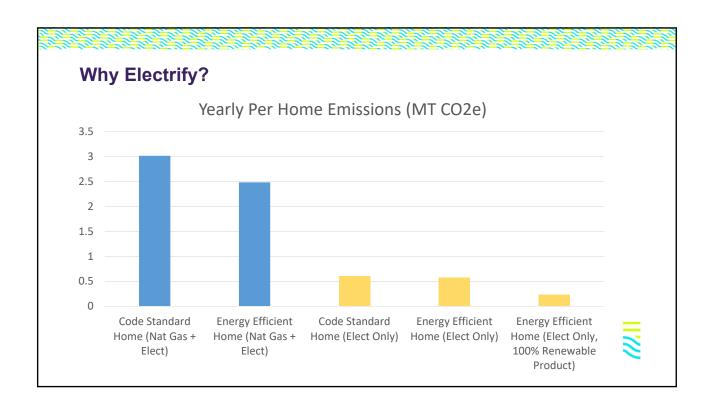


Decarbonization of the Grid









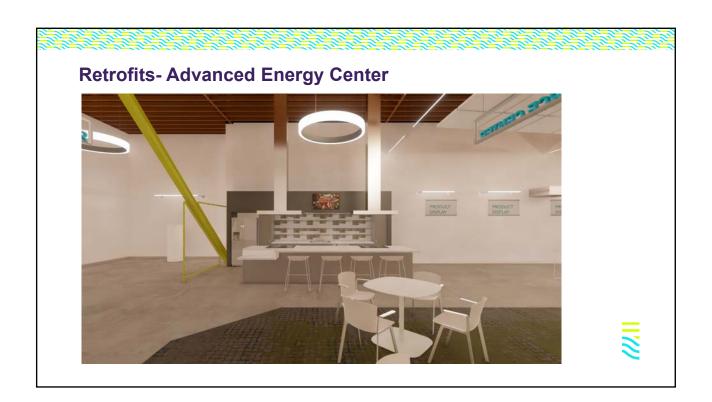
Option	Jurisdictions Considering this Option	Anticipated per home costs beyond 2020 Requirements	Anticipated GHG Impacts	Potential Barriers	Timeframe	Applies to
All Electric <u>Favored</u> Reach Code	Cloverdale, San Luis Obispo	Unknown range of costs.	Assuming 1/3 of homes choose all- electric option, 900 MT of CO2e annually	Need State approval	Could go into effect as soon as January 1, 2020	New construction single family and low-rise multifamily
All Electric Reach Code	Santa Rosa, Petaluma, Windsor	Savings of \$6,171 (or \$3,361 for multifamily unit) compared to a home using natural gas ¹	Assuming 500 homes are built over next three years, 1,700 MT of CO2e annually	Need State approval	Could go into effect as soon as January 1, 2020	New construction single family and low-rise multifamily
Natural Gas Ban	Berkeley, San Jose	Savings of \$6,171 (or \$3,361 for multifamily unit) compared to a home using natural gas ¹	Assuming 500 homes are built over next three years, 1,700 MT of CO2e annually	Relies on city's police powers	Could go into affect at any time	All buildings

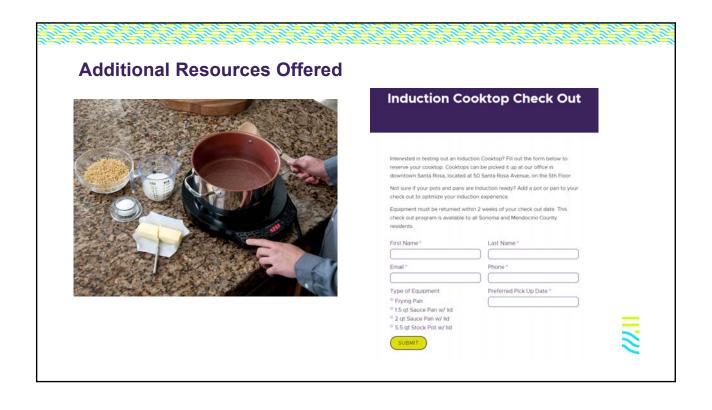
New Construction - Advanced Energy Rebuild

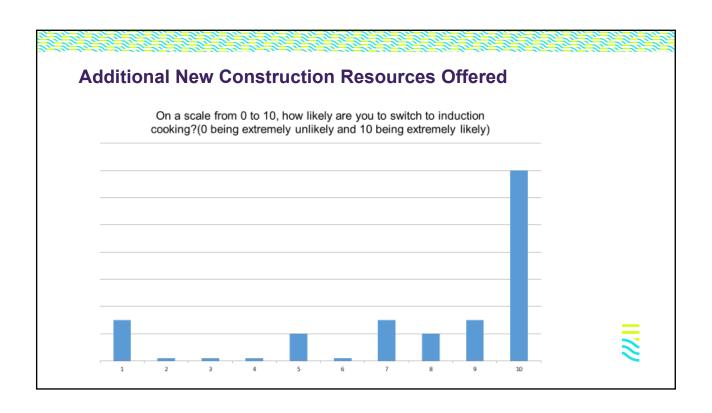
- Up to \$17,500 in incentives with one easy online application.
- Goes beyond existing program models by adding in non-standard measures like electric vehicle charging, grid responsiveness, battery storage, and water measures.
- 266 homes have applied for the program. Approximately 35% of which are all-electric.
- Projects include 266 EV chargers, 265 kW of solar and 254 kWh of battery storage.
- Energy models for the submitted projects are on average 26%
 better than current Title 24 code and are predicted to save \$650
 annually on their utility bills.











Looking Beyond the Building

