



Sonoma Water's Actions in the Water-Energy Nexus

California Water Commission

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Dale Roberts

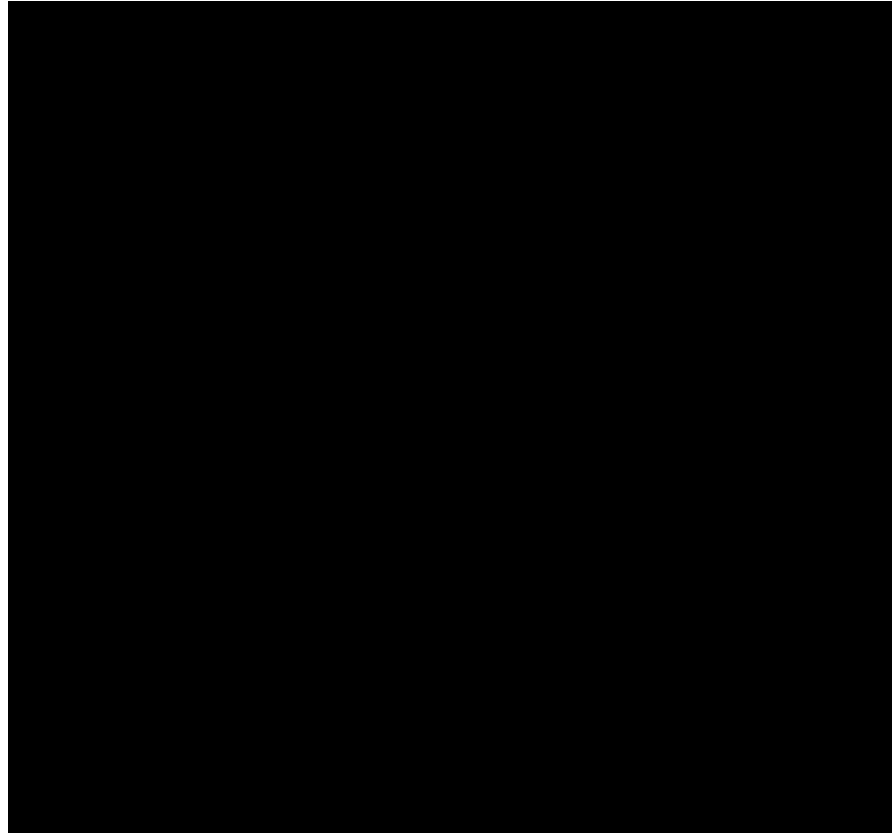
Principal Engineer—Energy Resources



Sonoma.com

Core Functions

- Wholesale water supplier to over 600,000 people – Sonoma & Marin Counties
- Flood Management
- Sanitation/Wastewater

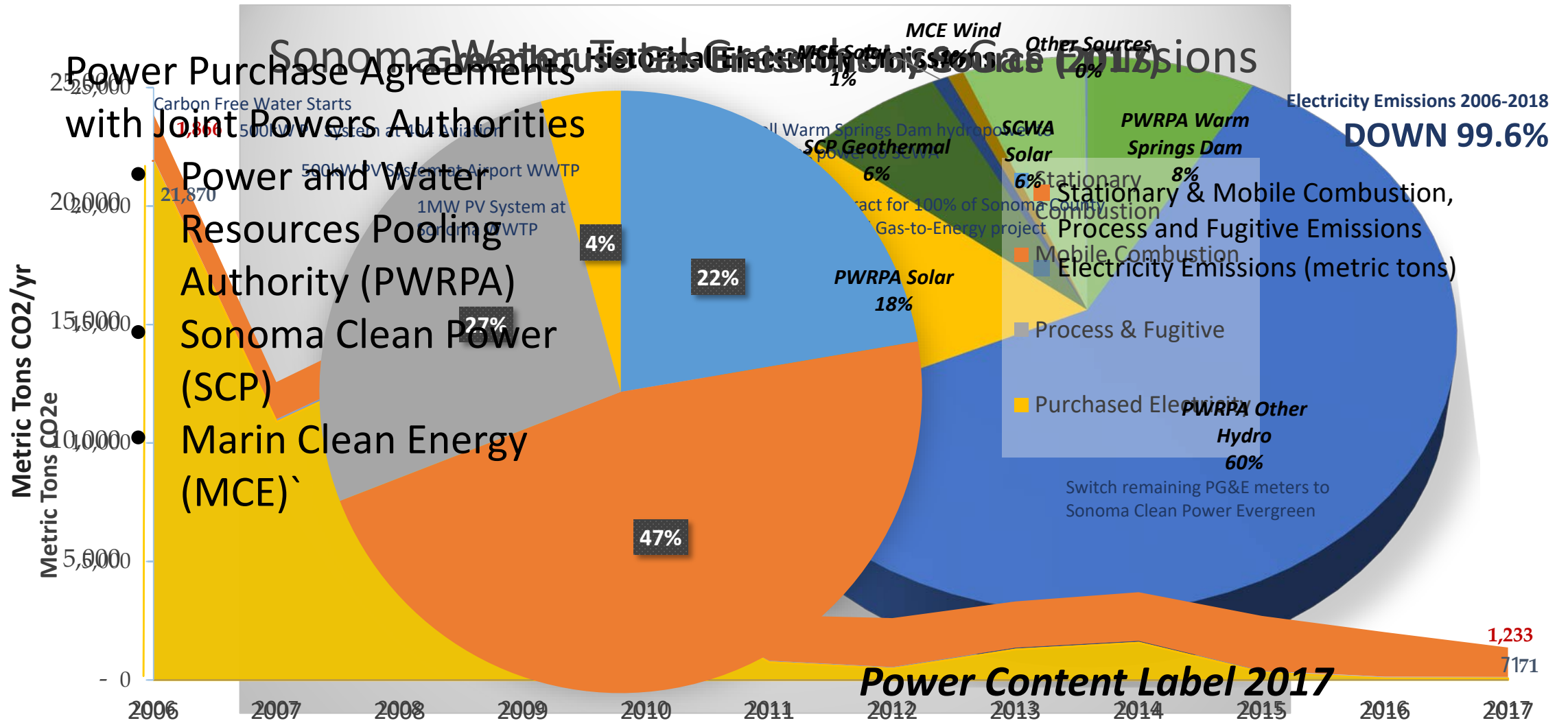


Energy Policy and Climate Adaptation

- Reliant on Healthy Watershed
- Climate Impacts Our Business
- Energy Generator
- Reliant on Energy
- Energy Sources Impact Watershed
- Energy Policy
 - Carbon Free Water, Cost Effectively
 - Collaborate Regionally on Water/Energy/Climate Issues
- Develop Climate Adaptation Plan



Carbon Free Water—The Water Energy Nexus



2006

- Carbon Free Water begins
- 500 kW PV system installed at admin building
- Began Reporting GHGs



2007

- 500 kW PV system installed at Air Treatment Plant
- 900 kW PV system installed at SCWA Treatment Plant



2017-present

- Continue to explore ways to cost-effectively sustain carbon free water



2016

- Warm Springs Dam Hydroelectric assessment
- Floating solar pilot system
- Evaluating for energy

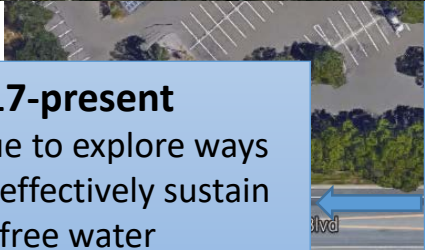
2015

- Carbon Free Water achieved

advanceddisposal.com goes live

2014

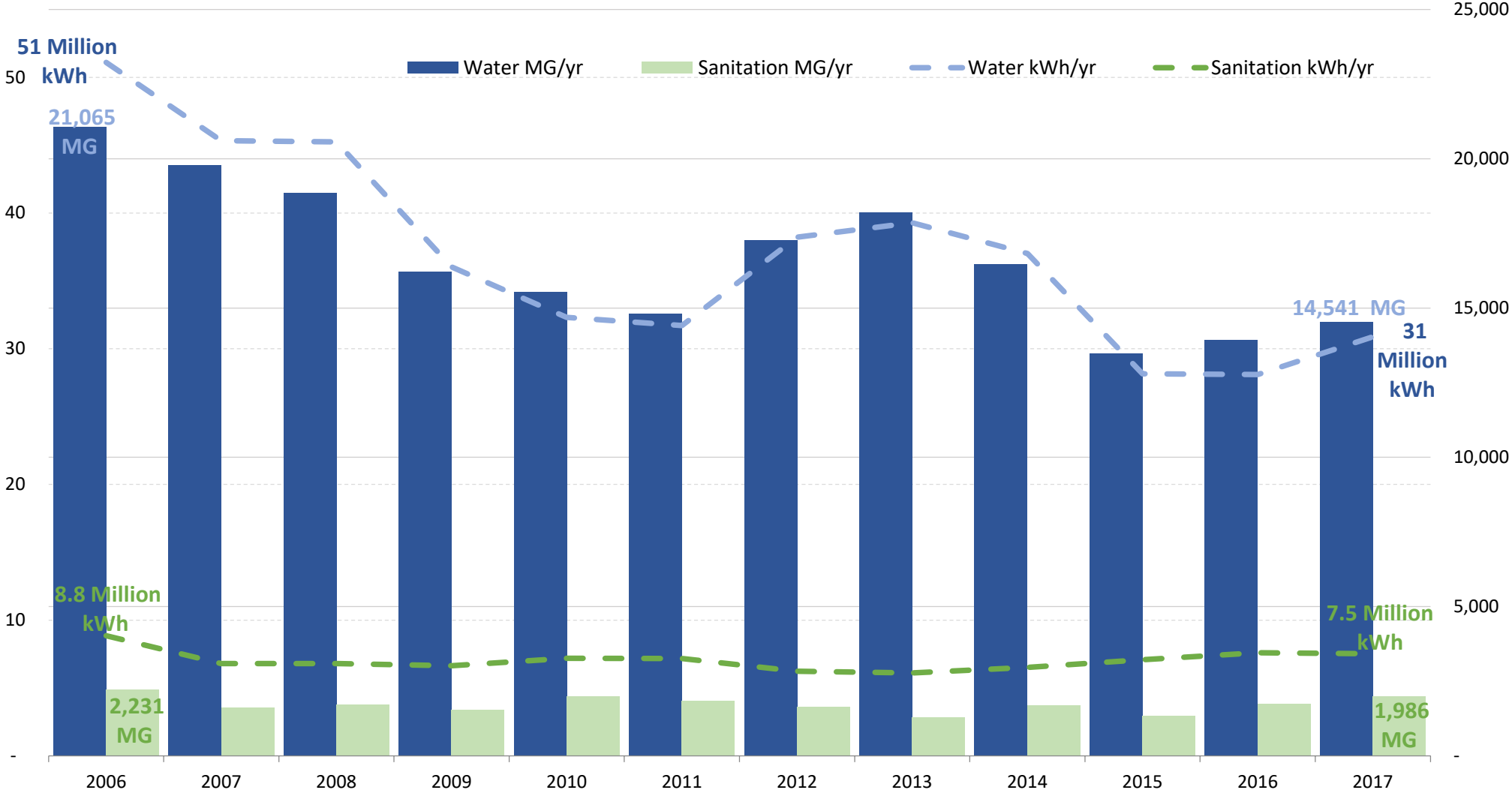
- Sonoma Clean Power
- SCWA Switched remaining PG&E meters to Sonoma Clean Power Evergreen



Sonoma County Water Agency Historical Data

Million kWh/yr

Million Gallons (MG)/yr



Energy Intensity: Wastewater Sanitation & Water Transmission



Thank you

- Reliant on Healthy Watershed
- Climate Impacts Our Business
- Collaborate Regionally on Water/Energy/Climate Issues

Thoughts?



**Sonoma
Water**