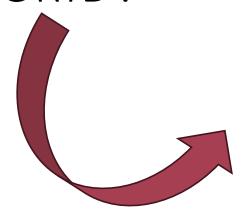
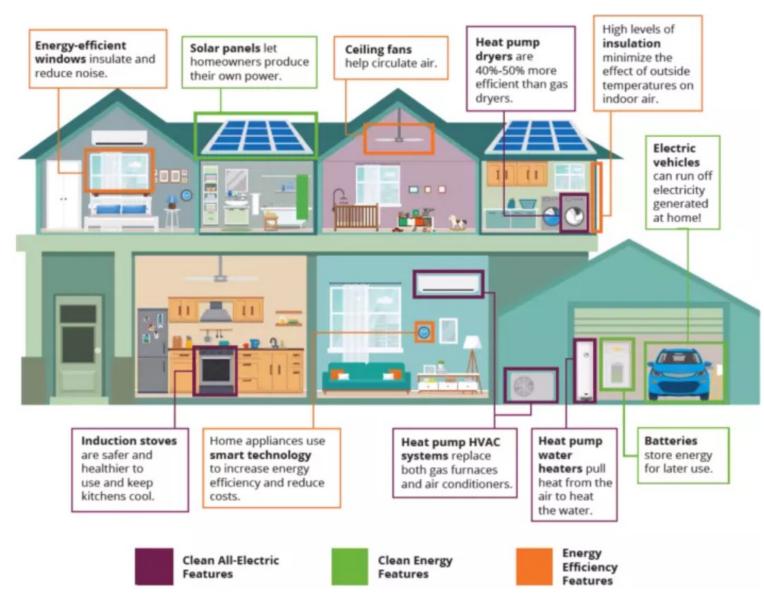




Ryan McFadyen, PE

Energy Modeling Innovation Senior Advisor Energy Codes and Standards Southern California Edison HOW DO THESE CHOICES AFFECT THE GRID?











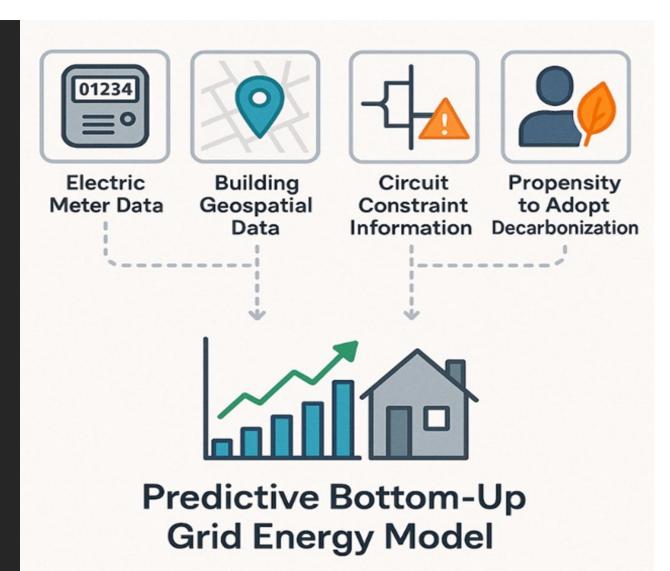
WHY BUGMAP?

Q: How will peak load change on the <u>Cucamonga Circuit</u> with <u>95%</u> adoption of <u>heat pump water heaters</u> by <u>residential</u> customers?

Questions like this can be difficult to answer with traditional top-down load forecasting methods (projecting total load and distribute it amongst the grid's circuits).

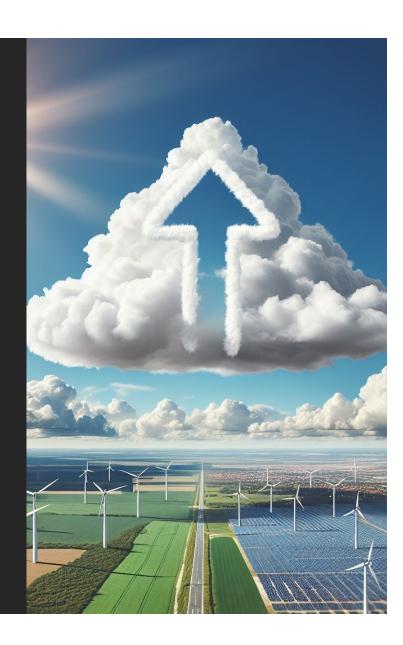
In contrast, BUGMAP forecasts individual customer loads with building energy models and aggregates them to form circuit estimates.

HOW TO BUGMAP



HOW BUGMAP BUILDS A BETTER GRID

- Enhanced Load Forecasting
- Targeted Infrastructure Investments
- Optimized Grid Operations
- Smarter Incentive Programs







Ryan McFadyen, PE

Energy Modeling Innovation Senior Advisor

Codes and Standards

Customer Programs & Services

Southern California Edison

ryan.mcfadyen@sce.com

M: (626) 224-8075 | T: (626) 302-0794

4777 Irwindale Ave., Irwindale, CA 91706