

Beneficial Electrification

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Introduction: What is “Beneficial Electrification?”

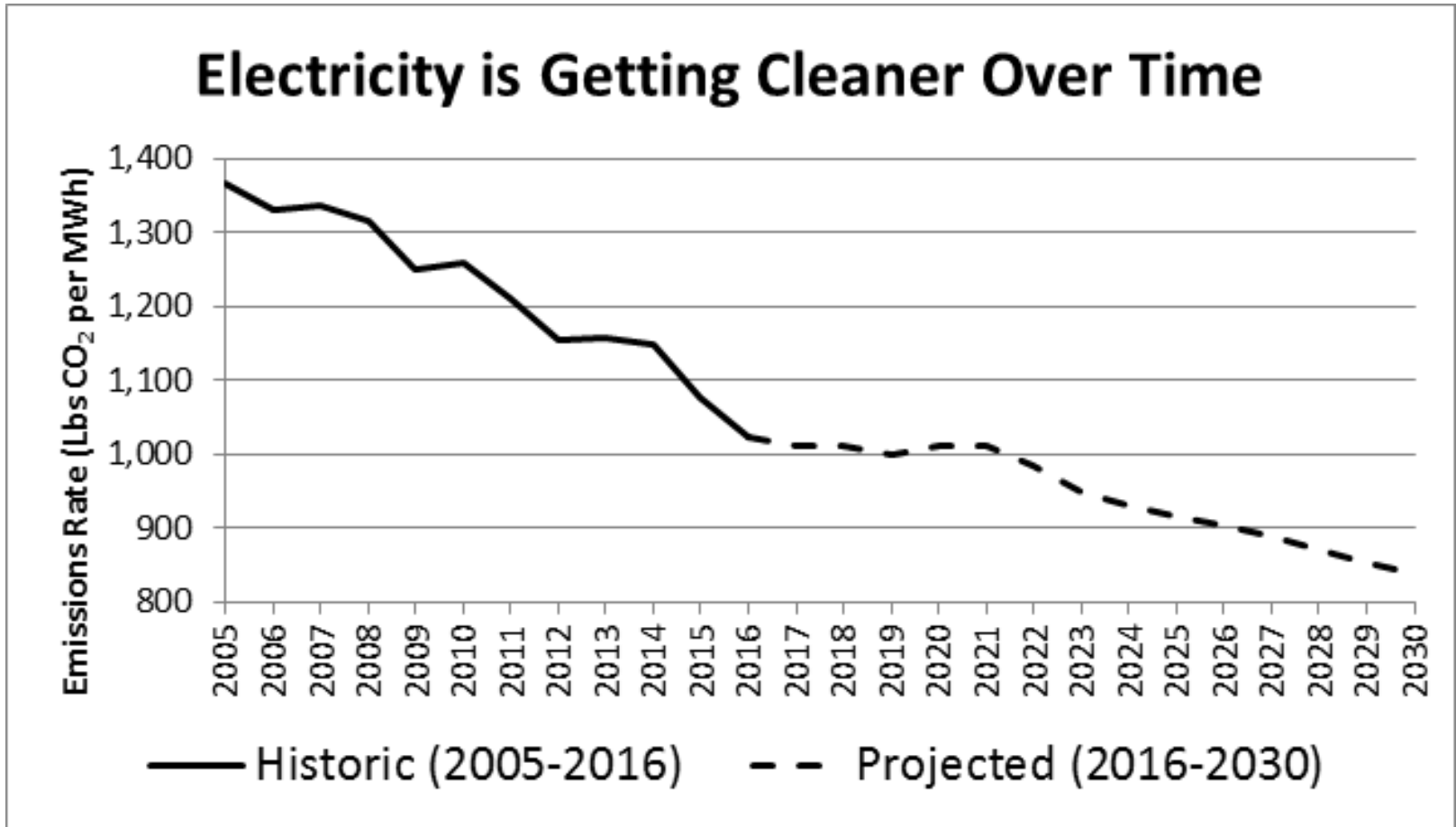
Beneficial Electrification League:

“The application of electricity to end-uses that would otherwise consume fossil fuels (e.g., natural gas, propane, oil, gasoline) where doing so satisfies at least one of the three following conditions, without adversely affecting the other two:

- 1) Benefit the environment and reduce greenhouse gas emissions;
- 2) Save consumers money over time;
- 3) Foster a more robust and resilient grid.”



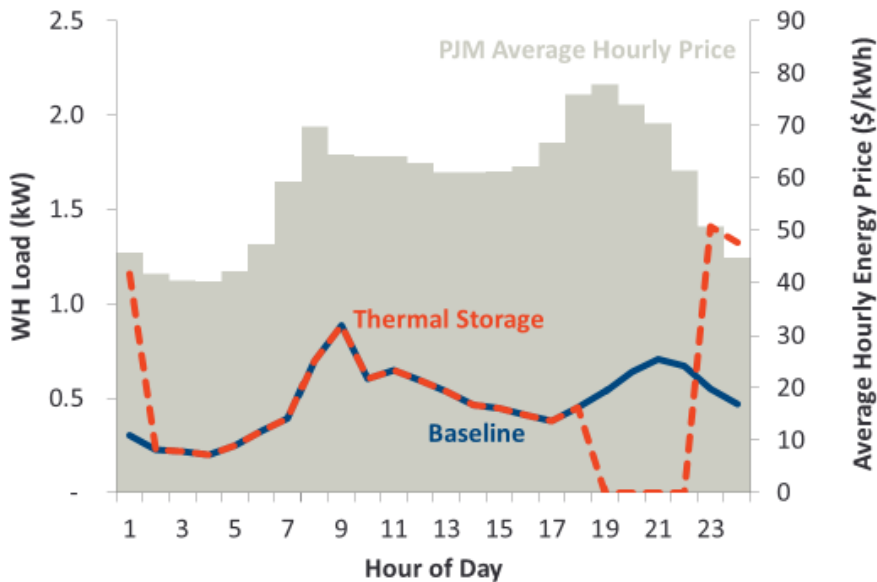
Opportunity for “EBE” to Improve “Emissions Efficiency”



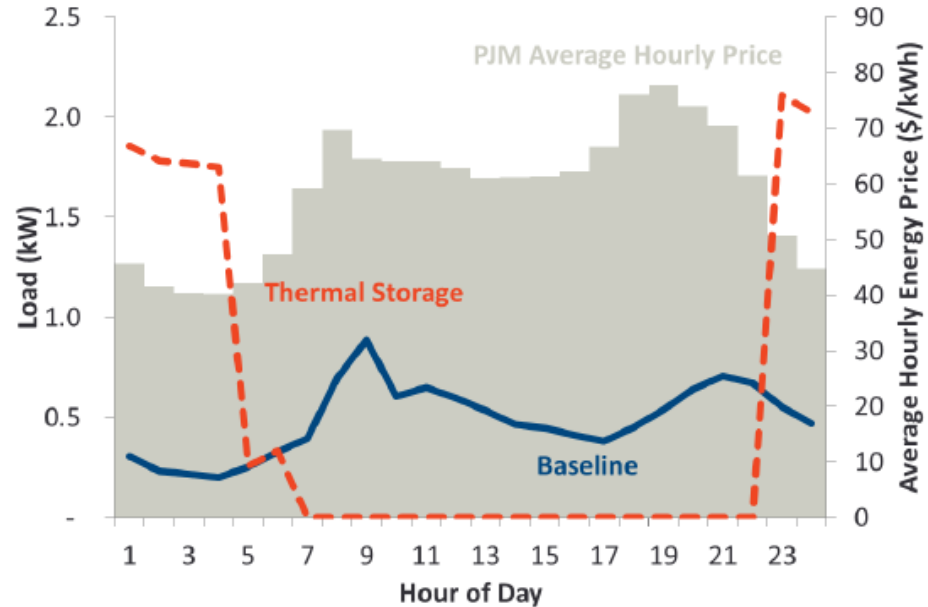
While the energy efficiency of devices will not change once installed, the emissions efficiency (or “emiciency”) will improve over time

Using Electric End-Uses Smartly is Energy Efficiency

50-gallon Tank



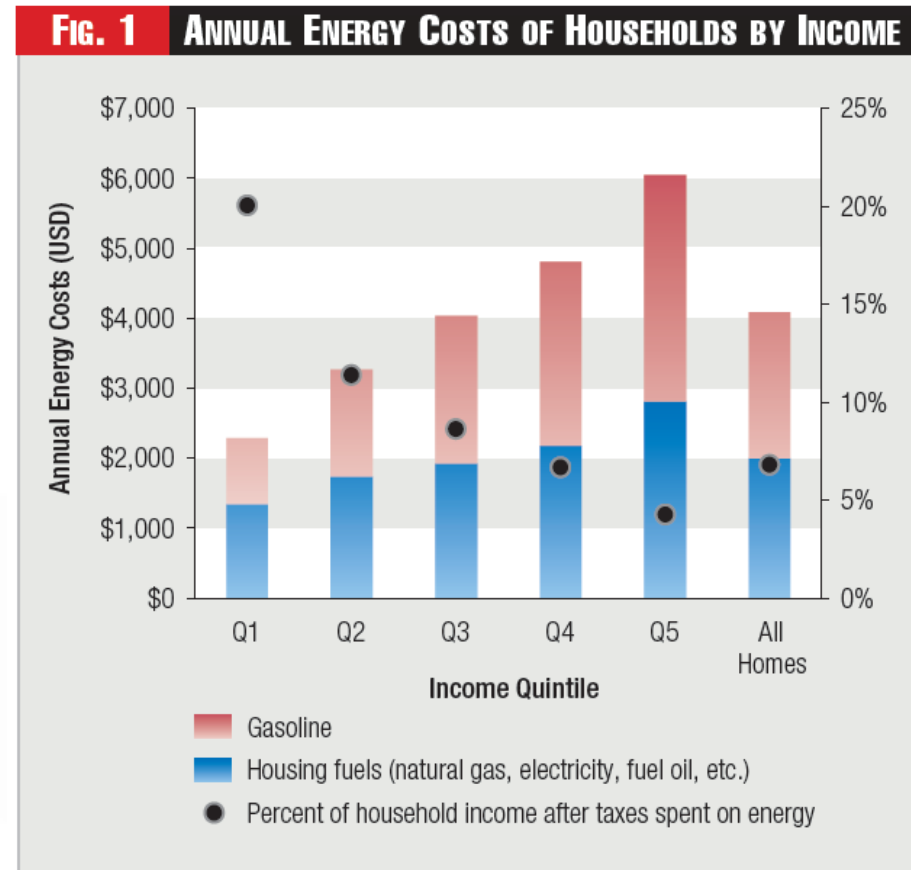
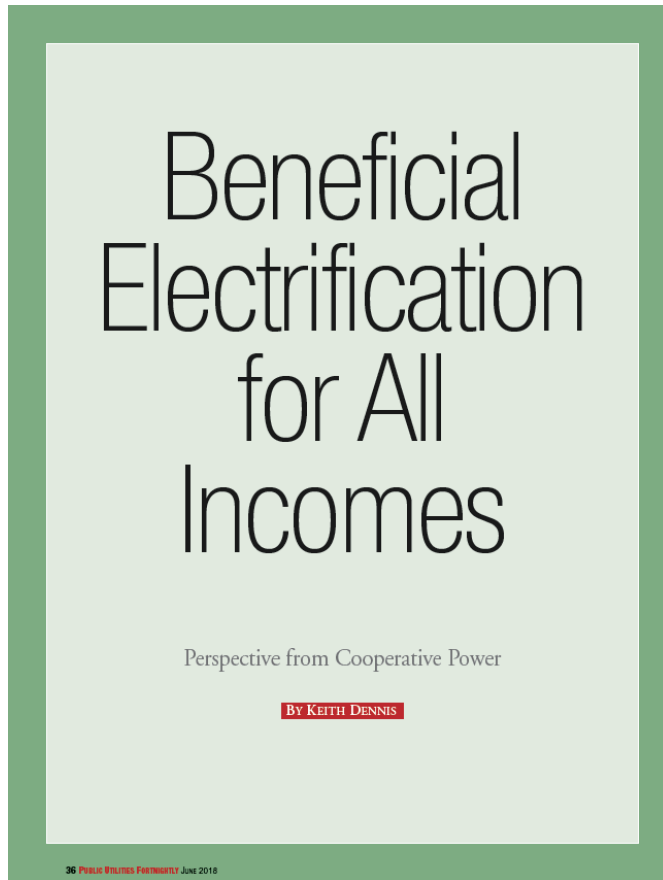
80-gallon Tank



- Electric water heaters can be used as thermal storage to save consumers money, manage the grid, and lower emissions through using energy wisely.
- Energy “efficiency” should include options like smart water heating that changes time of when energy is used. Unlike kWh saved, CO₂ emissions saved are all equal.
- Dual fuel options similarly are beneficial to grid, consumers, and environment
- Source energy and kWh are increasingly outdated metrics for “energy efficiency”

New Opportunities for All Incomes

- June 2018 Public Utility Fortnightly Article



Utilities are a key part of solution with ~ \$8 Billion on EE spending annually

Welcome the “Beneficial Electrification League”!!!



- A new non-profit dedicated to promoting the benefits of beneficial electrification.
- www.beneficialelectrification.com
- Supporters include: Natural Resources Defense Council (NRDC), National Rural Cooperative Association (NRECA), Environment and Energy Institute (EESI), WECC, Great River Energy, Oglethorpe Power, Jackson EMC, and more.

Further Contact Information

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