



LOW-INCOME WEATHERIZATION PROGRAM FOR MULTIFAMILY PROPERTIES ELECTRIFICATION CASE STUDY

ABOUT ELECTRIFICATION

As California strives to achieve ambitious decarbonization goals, grid-friendly electrification of the building sector is a cornerstone to California's greenhouse gas reduction strategy. Replacing natural gas-fueled space and water heating equipment with heat pump technology improves occupant health and safety while drastically reducing energy consumption and greenhouse gas emissions.

When burned, natural gas emits pollutants that are not only dangerous for occupants but also contribute to climate change.

Leaks in the natural gas supply chain release large amount of methane, a greenhouse gas more effective at trapping atmospheric heat than CO₂. The electric power supply chain, however, continues to get cleaner as renewable energy becomes increasingly available. Smart electrification paired with renewable energy, energy efficiency, and heat pump technology improves health and air quality while reducing greenhouse gas emissions and loads, providing a realistic and achievable pathway towards the state's decarbonization goals.

LIWP IMPACT

The Low Income Weatherization Program for Multifamily Properties has demonstrated that electrification is achievable in existing affordable rental properties across the state. More than 68% of LIWP-funded properties received energy efficient heat pump technology, and 40% of those properties involved fuel substitution. Preliminary analysis of post retrofit utility bills indicate an average of 42% site BTU savings and 32% costs savings for these LIWP-Multifamily funded electrification projects.



For more information about LIWP-Multifamily, contact liwpinfo@aea.us.org

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ELECTRIFICATION FACTS:

- Heat pump technology can electrify over 90% of thermal energy use in California's homes
- End-use electric appliances can help shift loads during peak periods

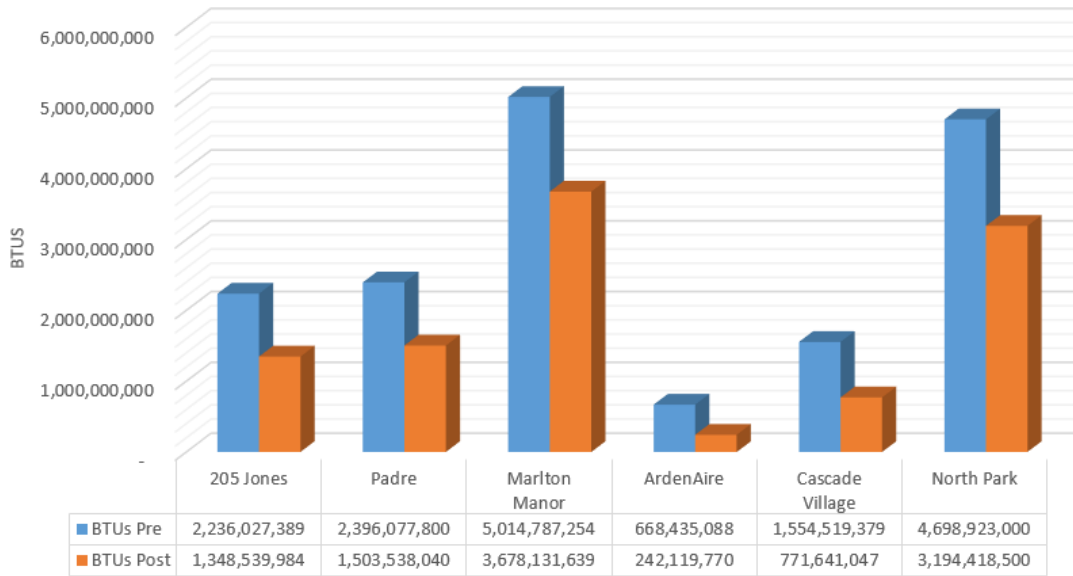
CASE STUDIES

Property Name	Combined Site BTU Savings	Electricity Savings	Gas Savings	Combined \$ Savings	GHG Savings
205 Jones	40%	-82%	48%	31%	34%
Padre	37%	-6%	53%	27%	30%
Marlton Manor	27%	4%	35%	49%	23%
ArdenAire	64%	-33%	89%	36%	51%
Cascade Village	50%	-84%	66%	25%	41%
North Park	32%	18%	45%	23%	28%
AVERAGE	42%	-31%	56%	32%	35%

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Energy Use

LIWP Projects with Electrification Scope



Cost Impact

LIWP Projects with Electrification Scope

