

LEAP Projections - Sunderland

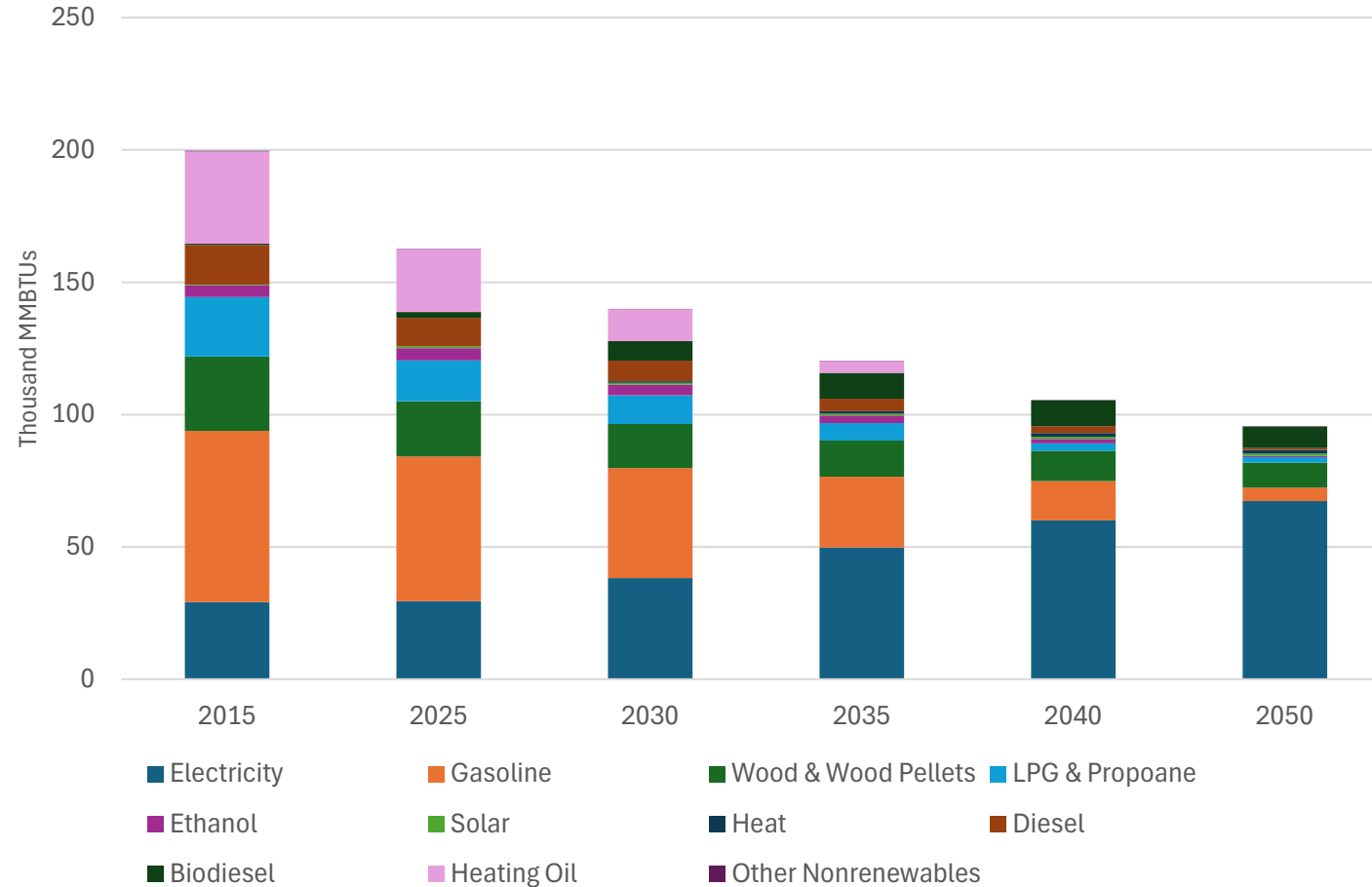
The following projections and targets come from the Low Emissions Analysis Platform (LEAP) model, which is a tool used by the State of Vermont to analyze and project energy demand across multiple sectors at the state and regional levels for the years 2015-2050. The general trends depicted in these LEAP projections show a decrease in overall energy use, a decreasing reliance on fossil fuels, and an increase in electricity demand as the electrification of the thermal and transportation sectors continues. The municipal projections were disaggregated from regional-level projections provided by VT Department of Public Service using the town's regional share of energy use. Contact BCRC for additional information and data.

[Regional LEAP Projections](#)

Additional data available at [Energy Planning - BCRC](#)



Sunderland Total Energy Demand by Fuel Type



What is a BTU?

A BTU, or British Thermal Unit, is a measure of energy value or heat content. A BTU is the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit at a constant pressure of one atmospheric unit.

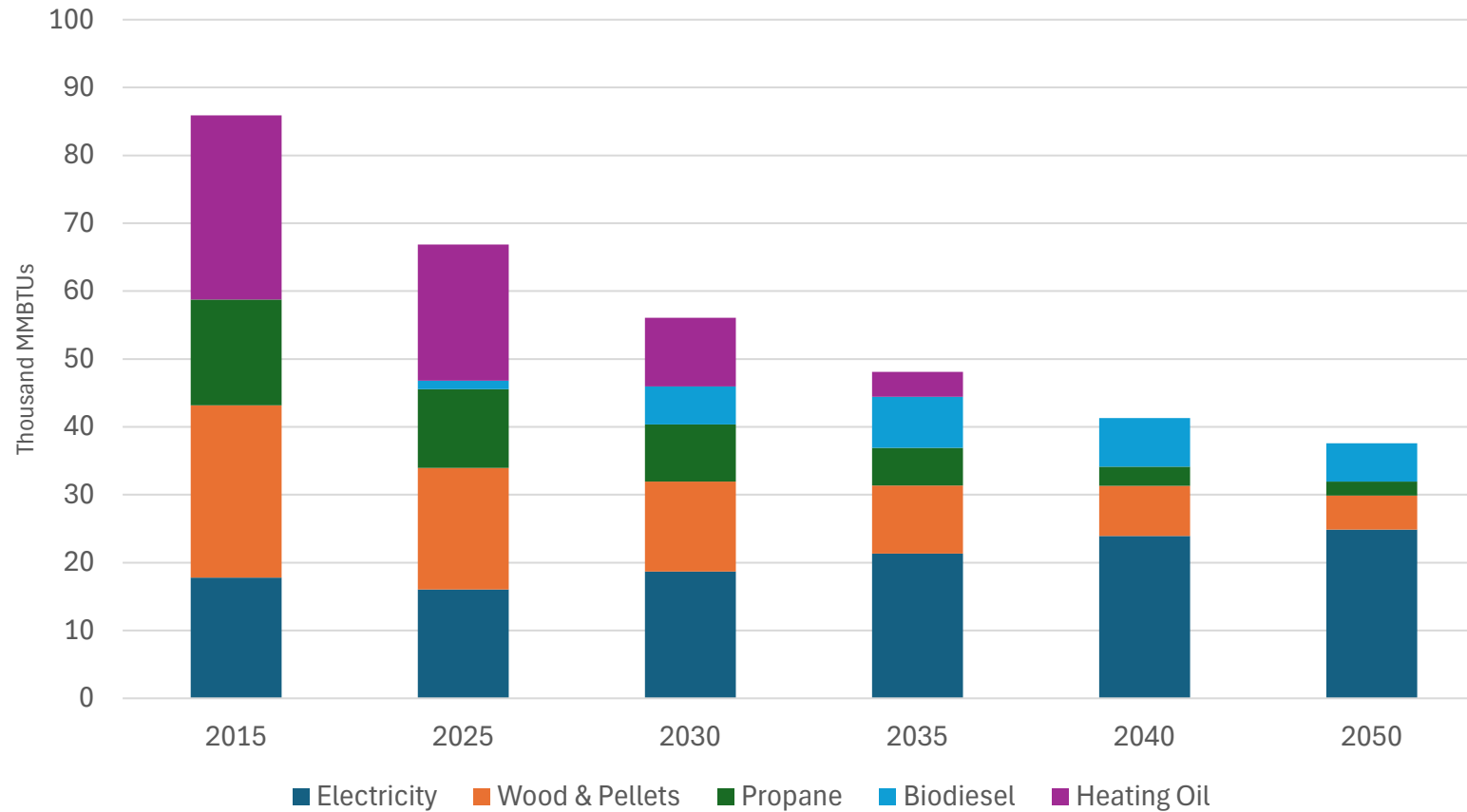
1 MBTU = 1,000 BTU

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Annual energy use is typically measured in units of Thousand MMBTUs

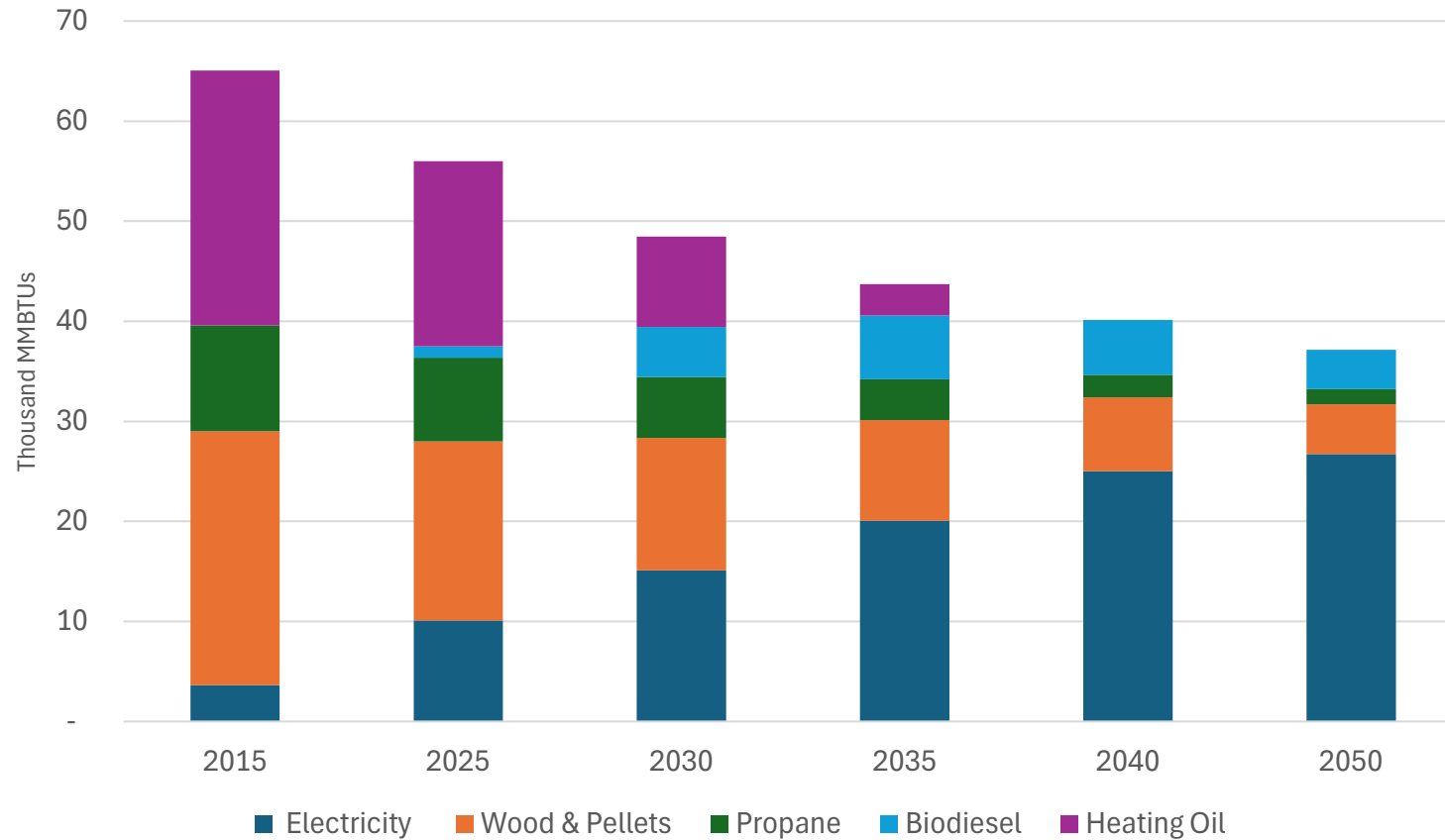
Residential Energy Demand & Targets

Sunderland Residential Energy Demand

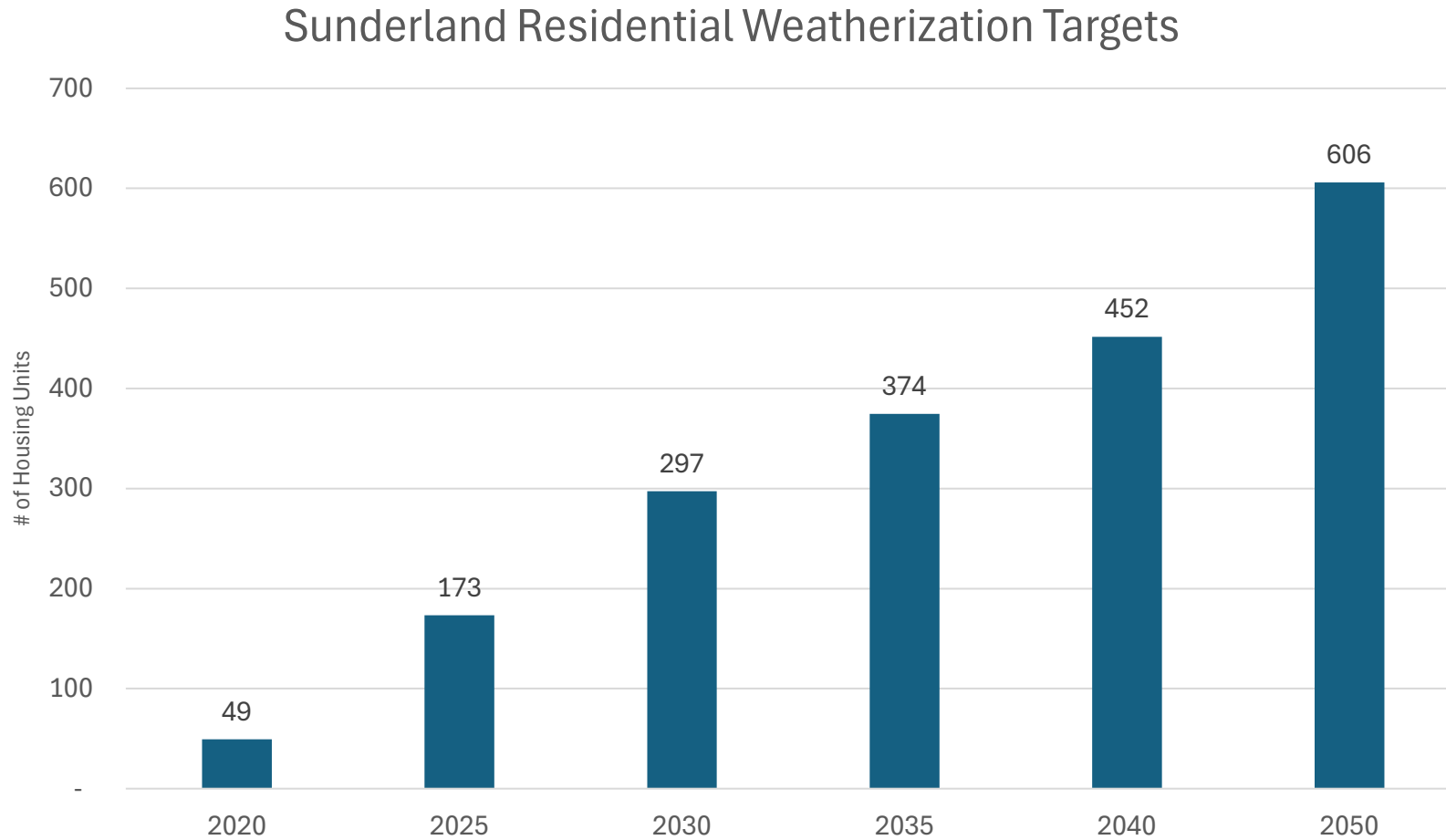


Residential Energy Demand & Targets

Sunderland Residential Thermal Energy Demand

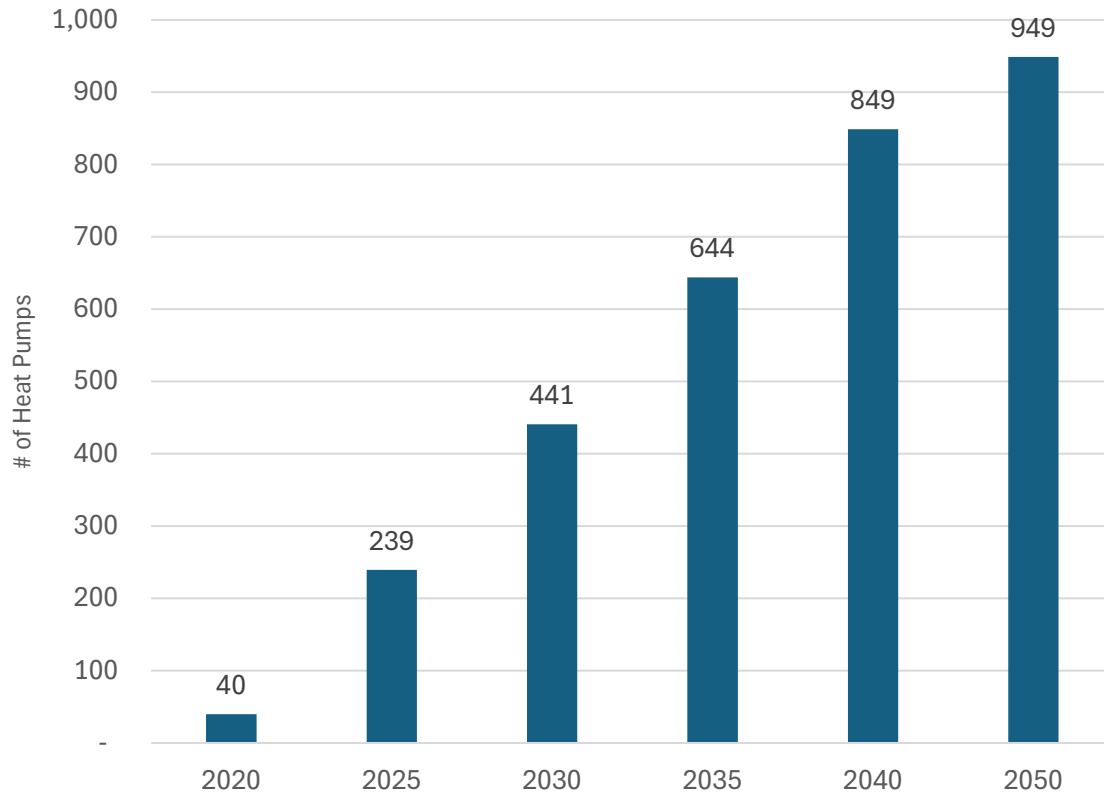


Residential Energy Demand & Targets

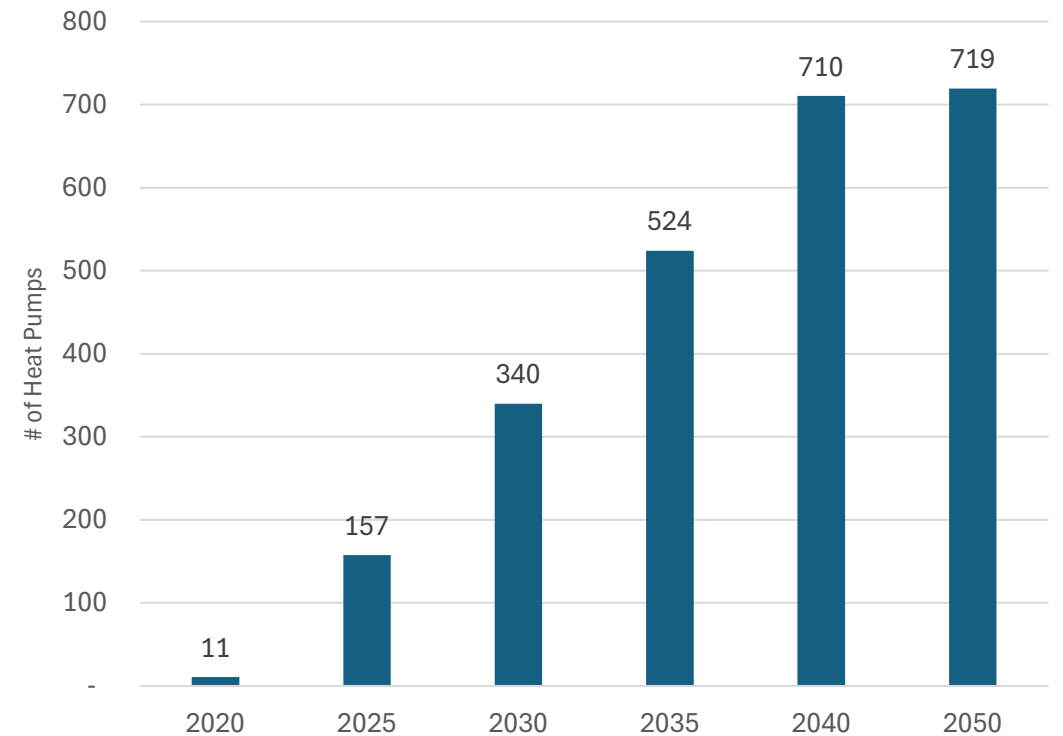


Residential Energy Demand & Targets

Sunderland Residential Heat Pump Targets

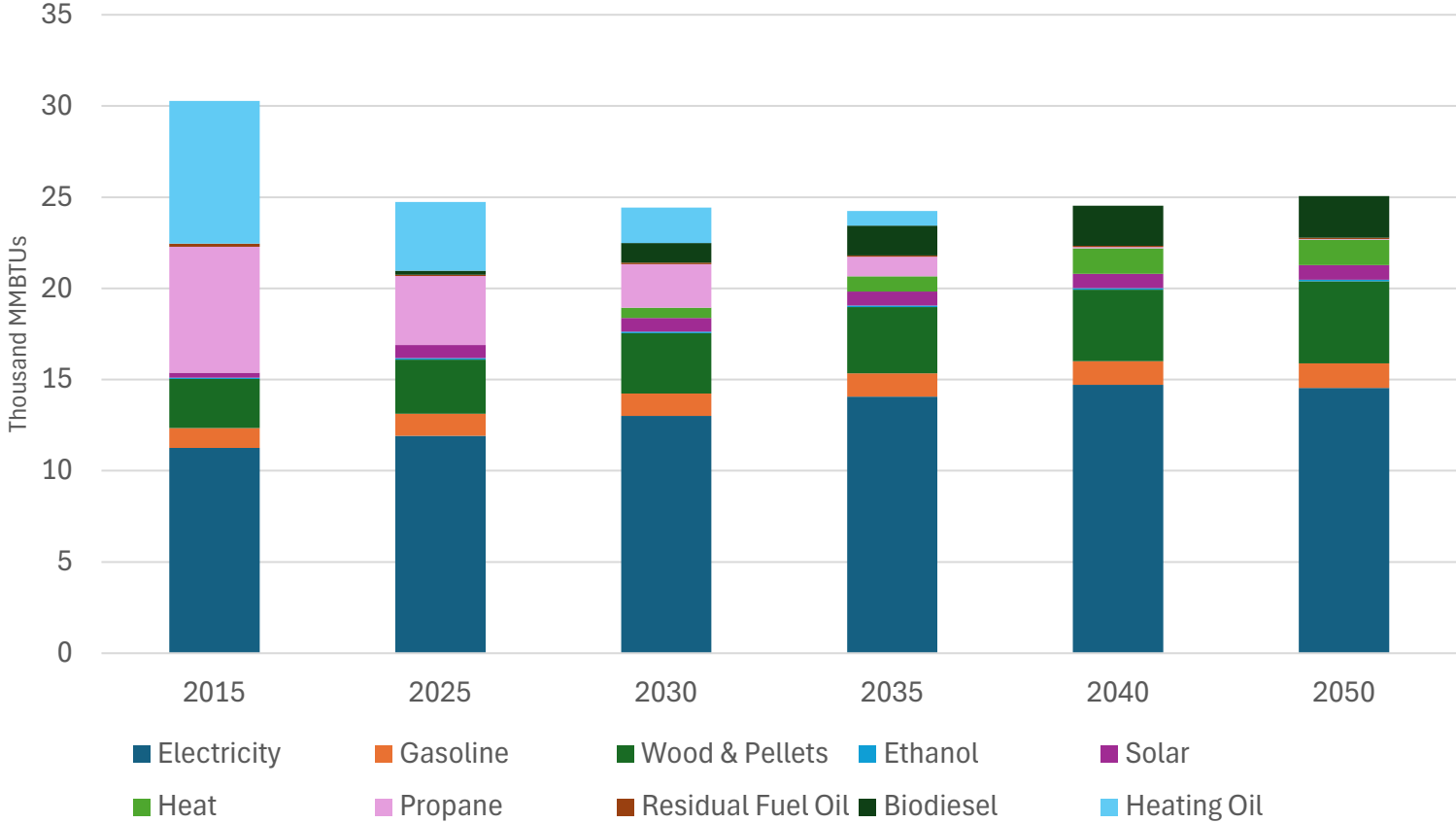


Sunderland Residential Heat Pump Water Heater Targets



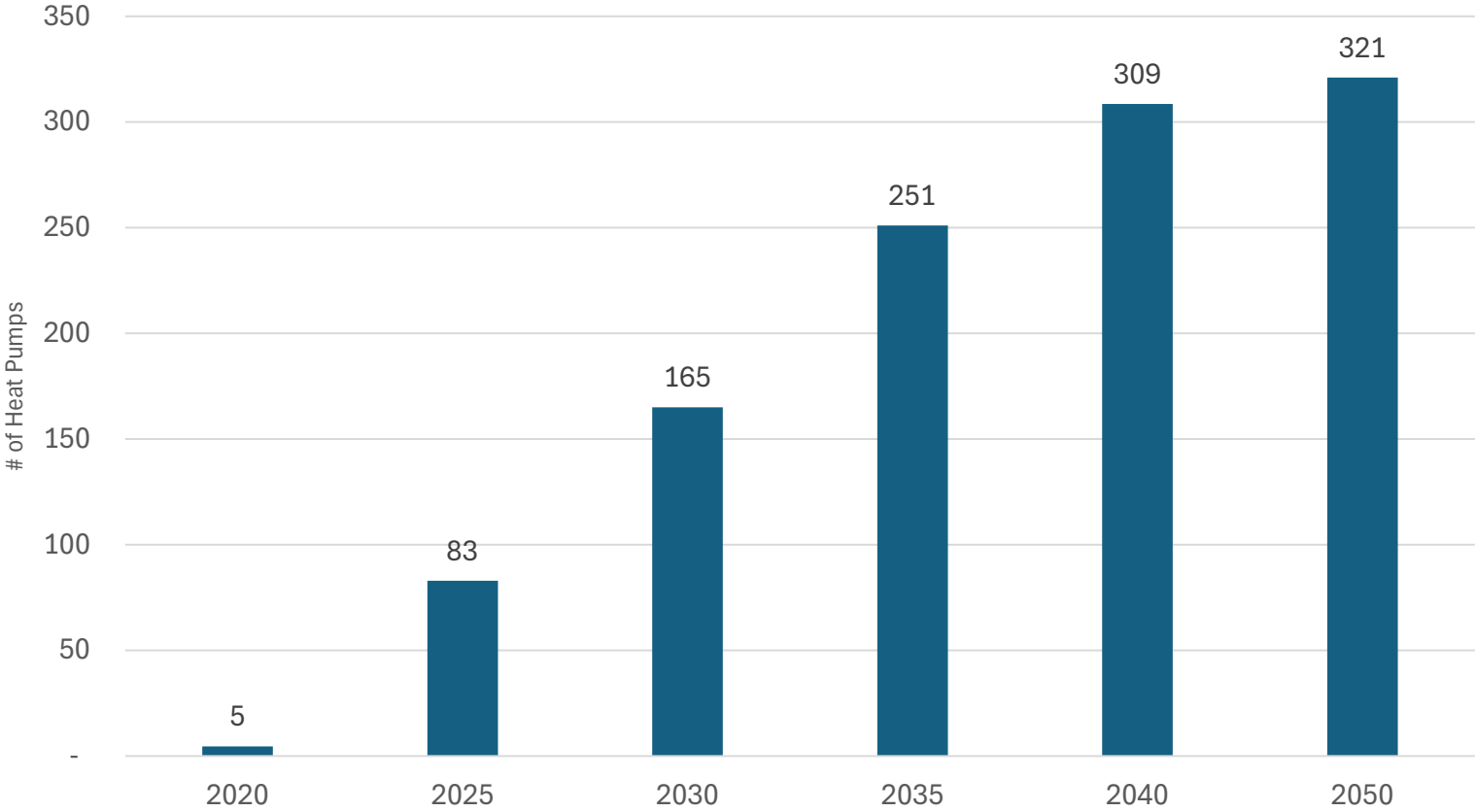
Commercial Energy Demand & Targets

Sunderland Commercial Energy Demand



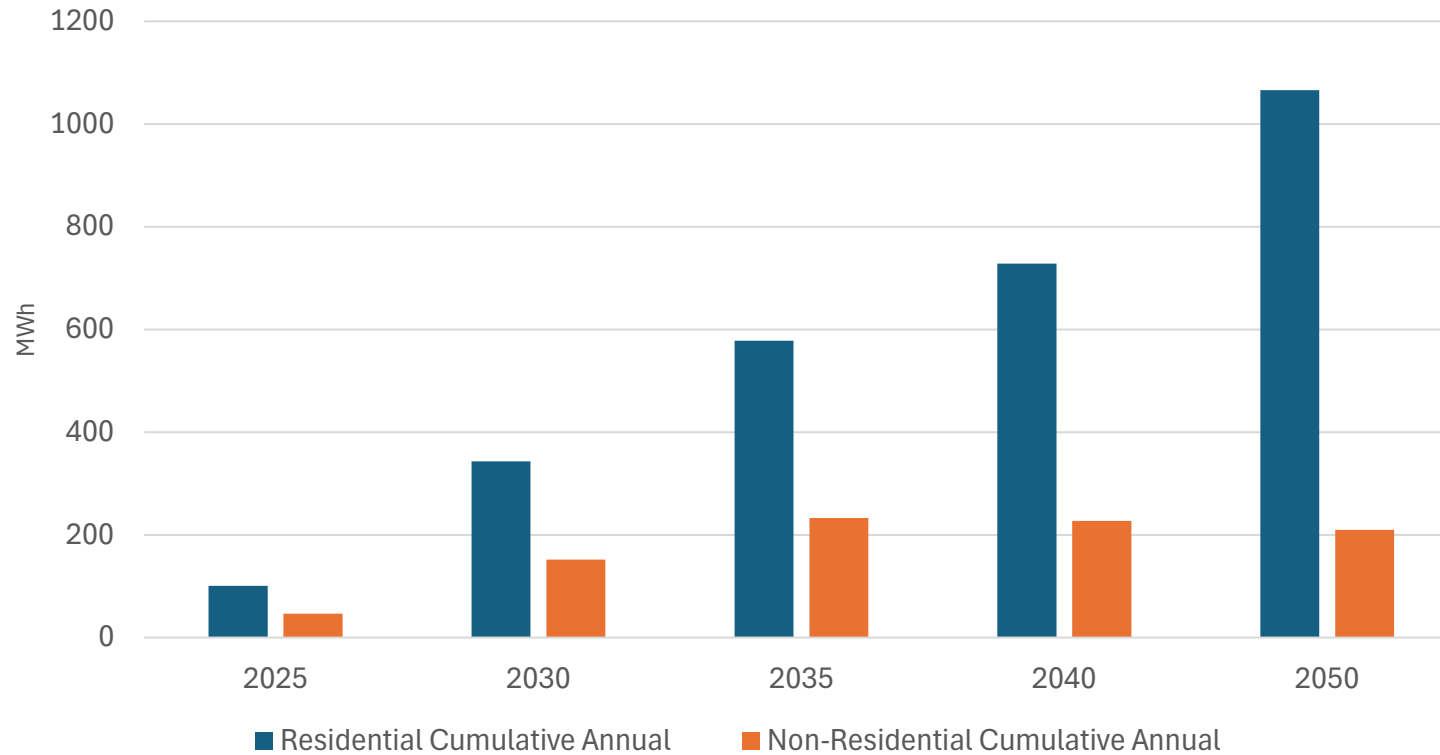
Commercial Energy Demand & Targets

Sunderland Commercial Heat Pump Targets



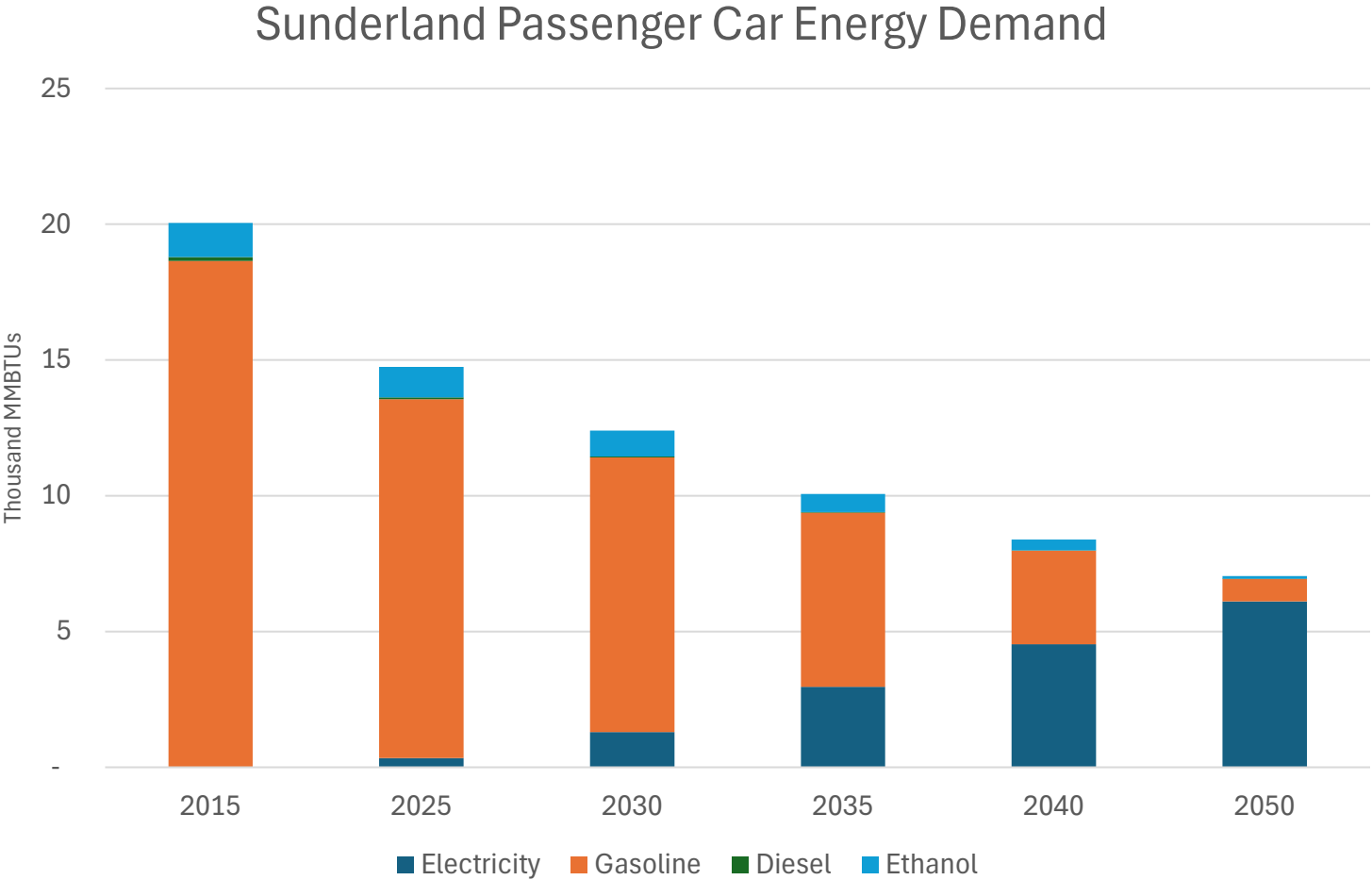
Electric Efficiency

Sunderland Electric Efficiency Savings



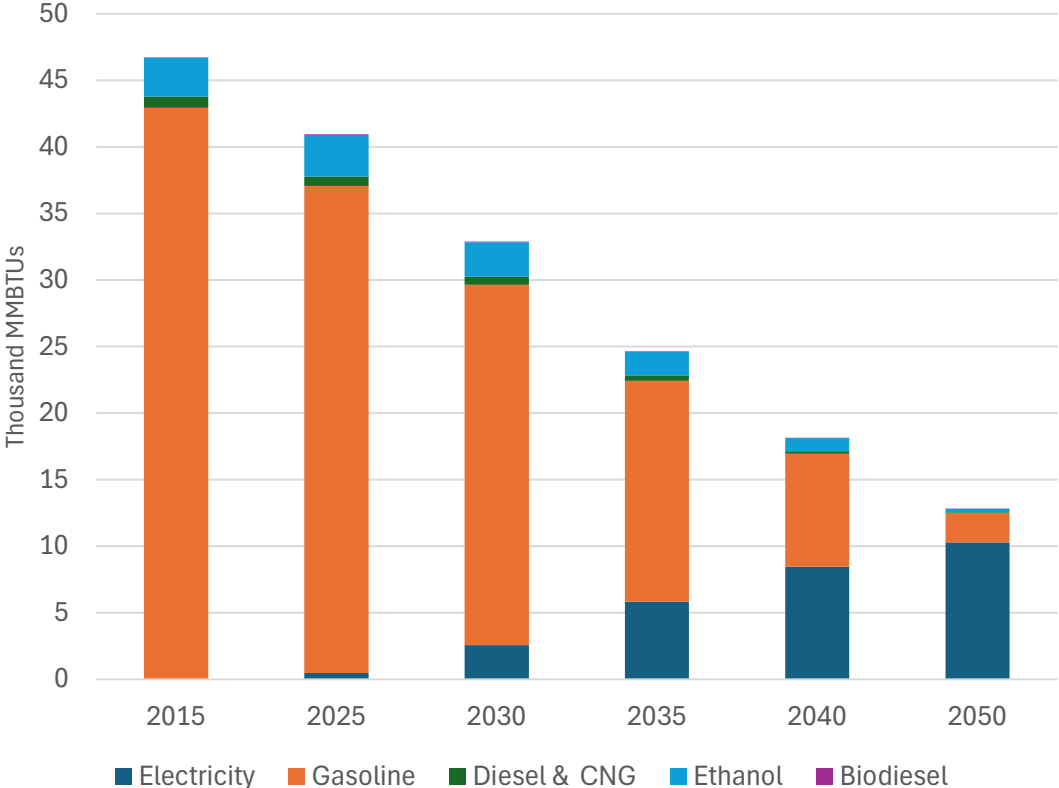
Data source: EEU Potential Study

Transportation Energy Demand & Targets

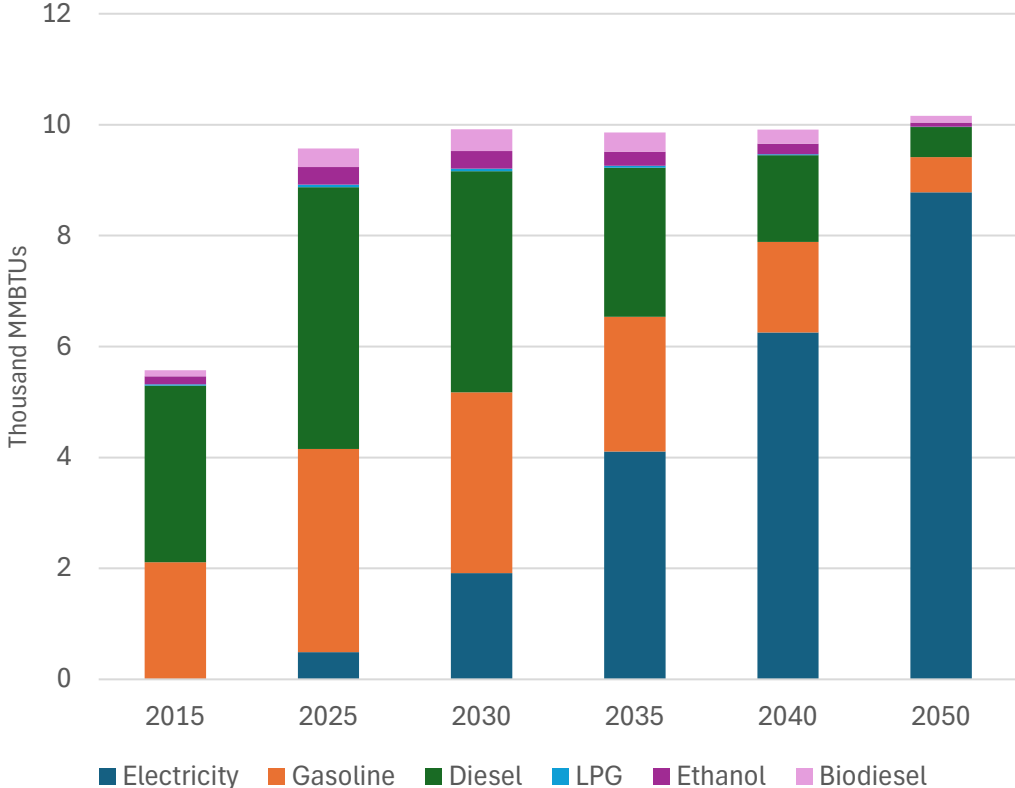


Transportation Energy Demand & Targets

Sunderland Light Truck Energy Demand

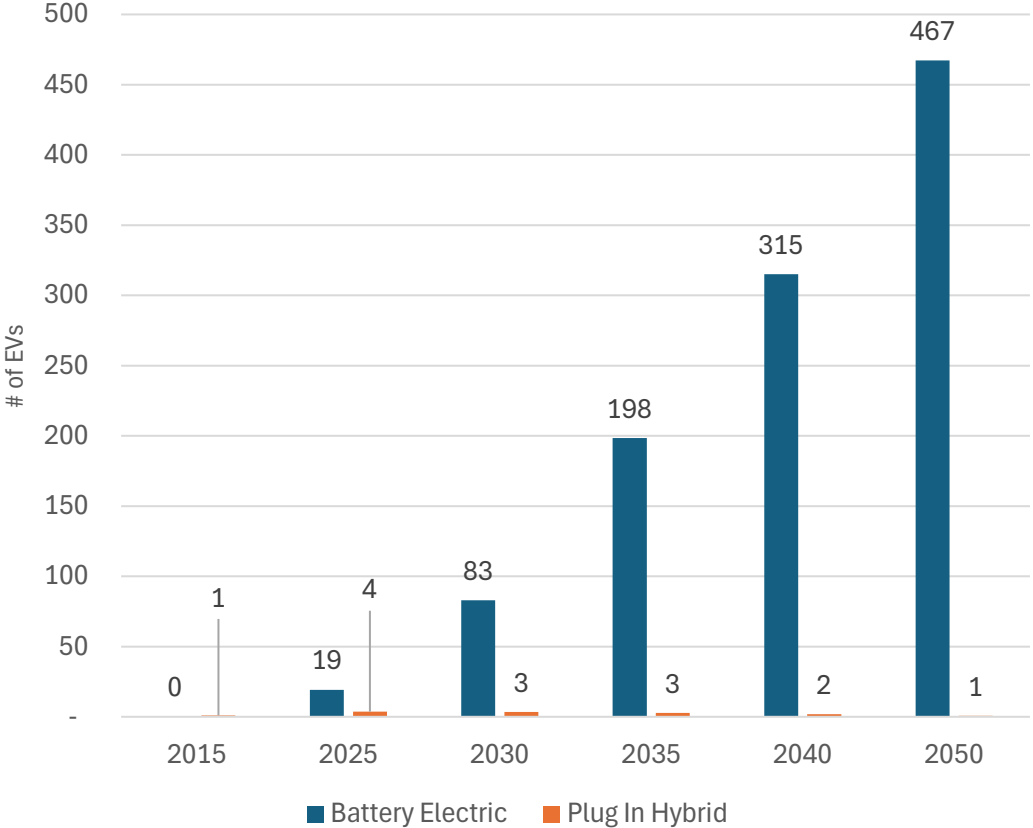


Sunderland Medium Truck Energy Demand

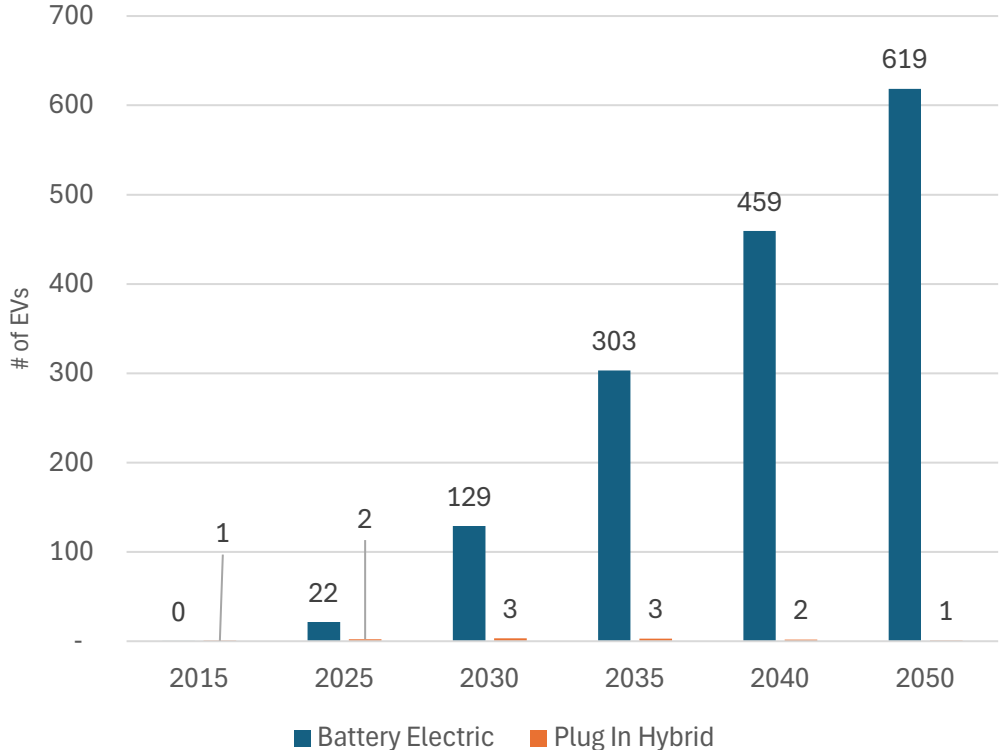


Transportation Energy Demand & Targets

Sunderland EV and PHEV Targets



Sunderland Light Truck EV and PHEV Targets



Renewable Energy Generation Targets (in MW)

| YEAR | SOLAR | ROOFTOP SOLAR | WIND | HYDRO | TOTAL |
|------|-------|---------------|------|-------|-------|
| 2025 | 0.2 | 0.2 | 0.1 | 0 | 0.5 |
| 2035 | 0.6 | 0.5 | 0.25 | 0 | 1.35 |
| 2050 | 0.8 | 0.7 | 0.4 | 0 | 1.9 |

Additional data available at [Energy Planning - BCRC](#)