

LEAP Projections - Manchester

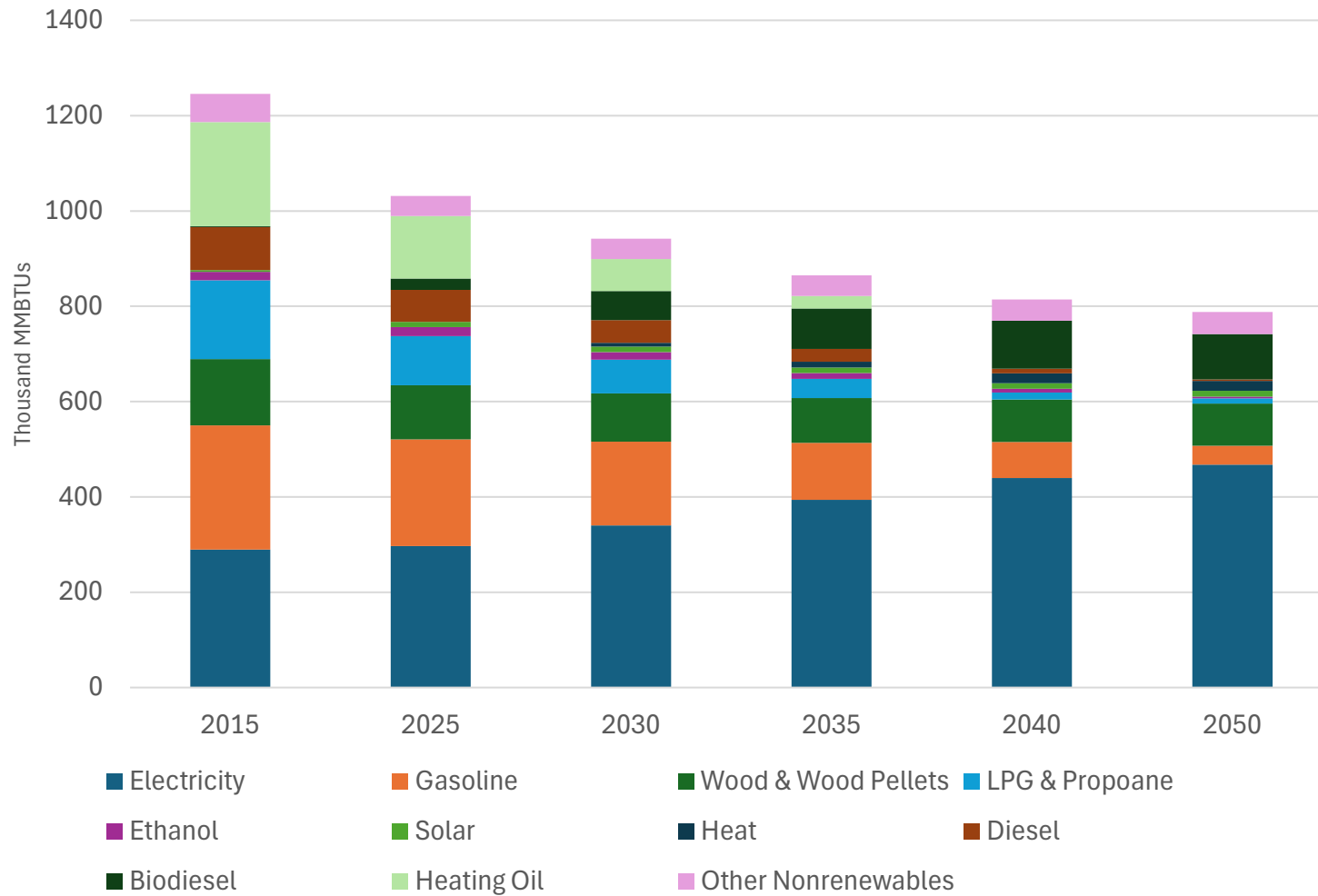
The following projections and targets come from the Low Emissions Analysis Platform (LEAP) model, which is a tool used by the State of Vermont to analyze and project energy demand across multiple sectors at the state and regional levels for the years 2015-2050. The general trends depicted in these LEAP 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](#)



Manchester Total Energy Demand by Fuel Type

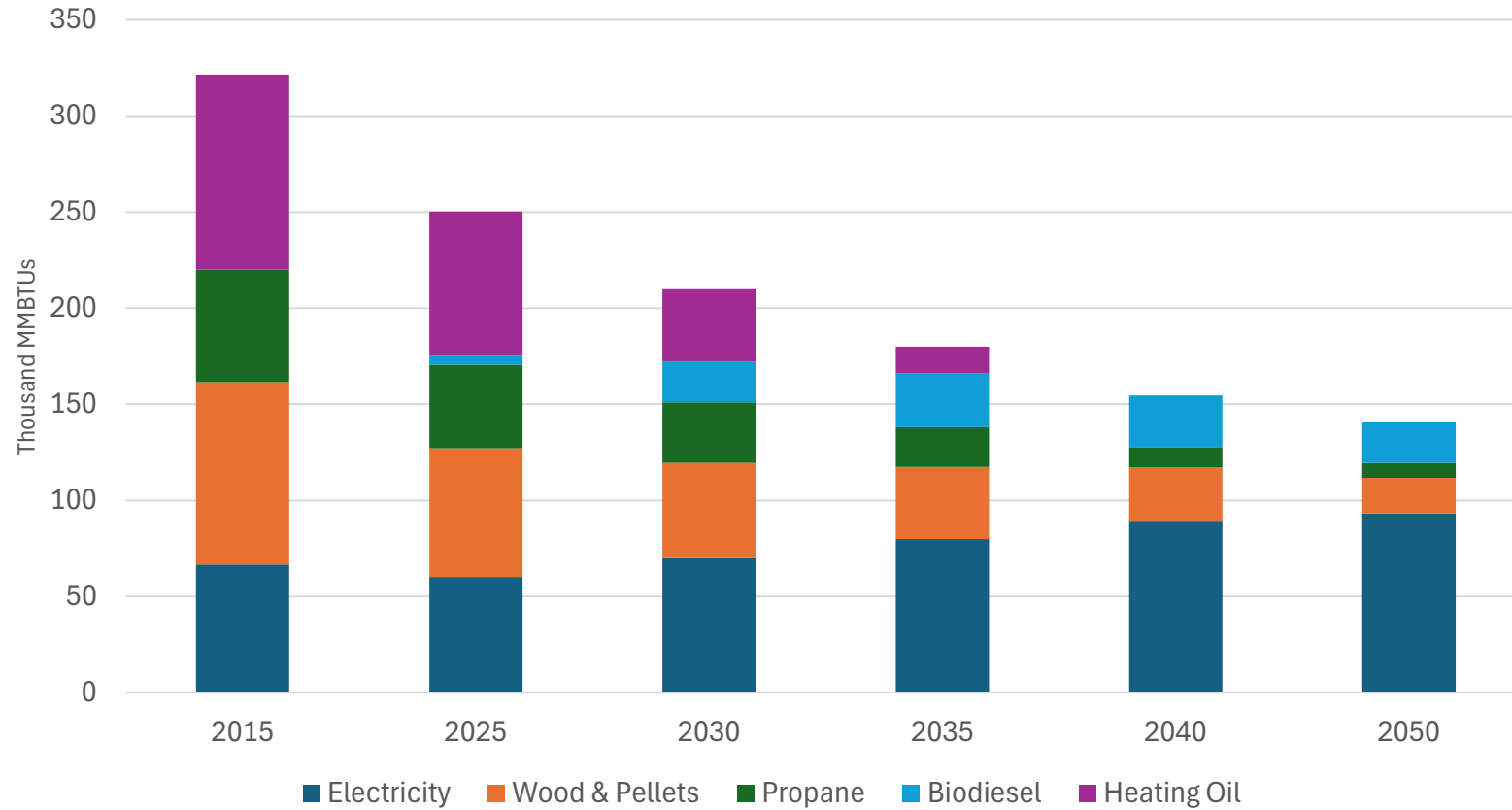


What is a BTU?
 A BTU, or British Thermal Unit, is a measure of energy value or heat content. A BTU is the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit at a constant pressure of one atmospheric unit.
 1 MBTU = 1,000 BTU
 1 MMBTU = 1,000,000 BTU

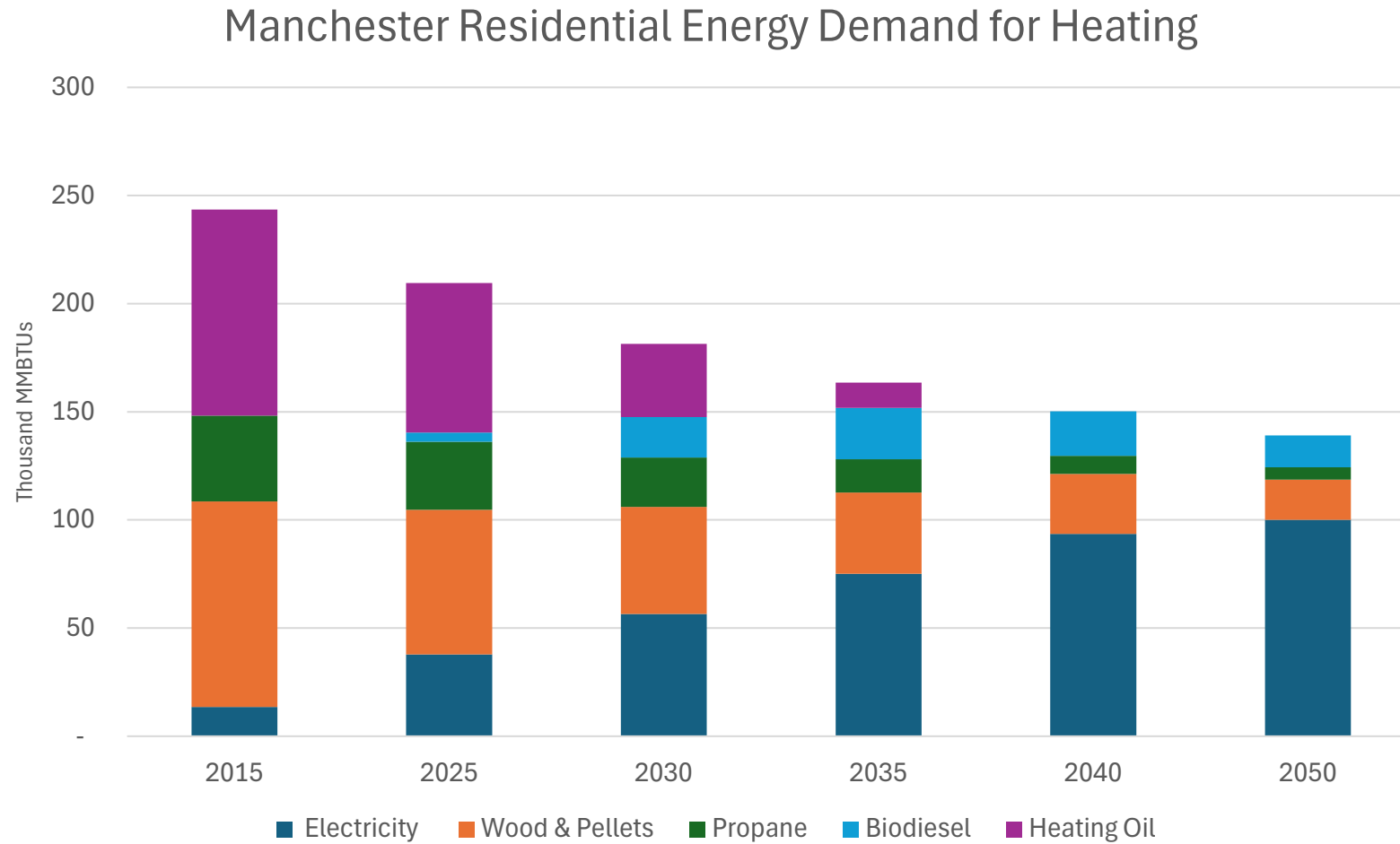
Annual energy use is typically measured in units of Thousand MMBTUs

Residential Energy Demand & Targets

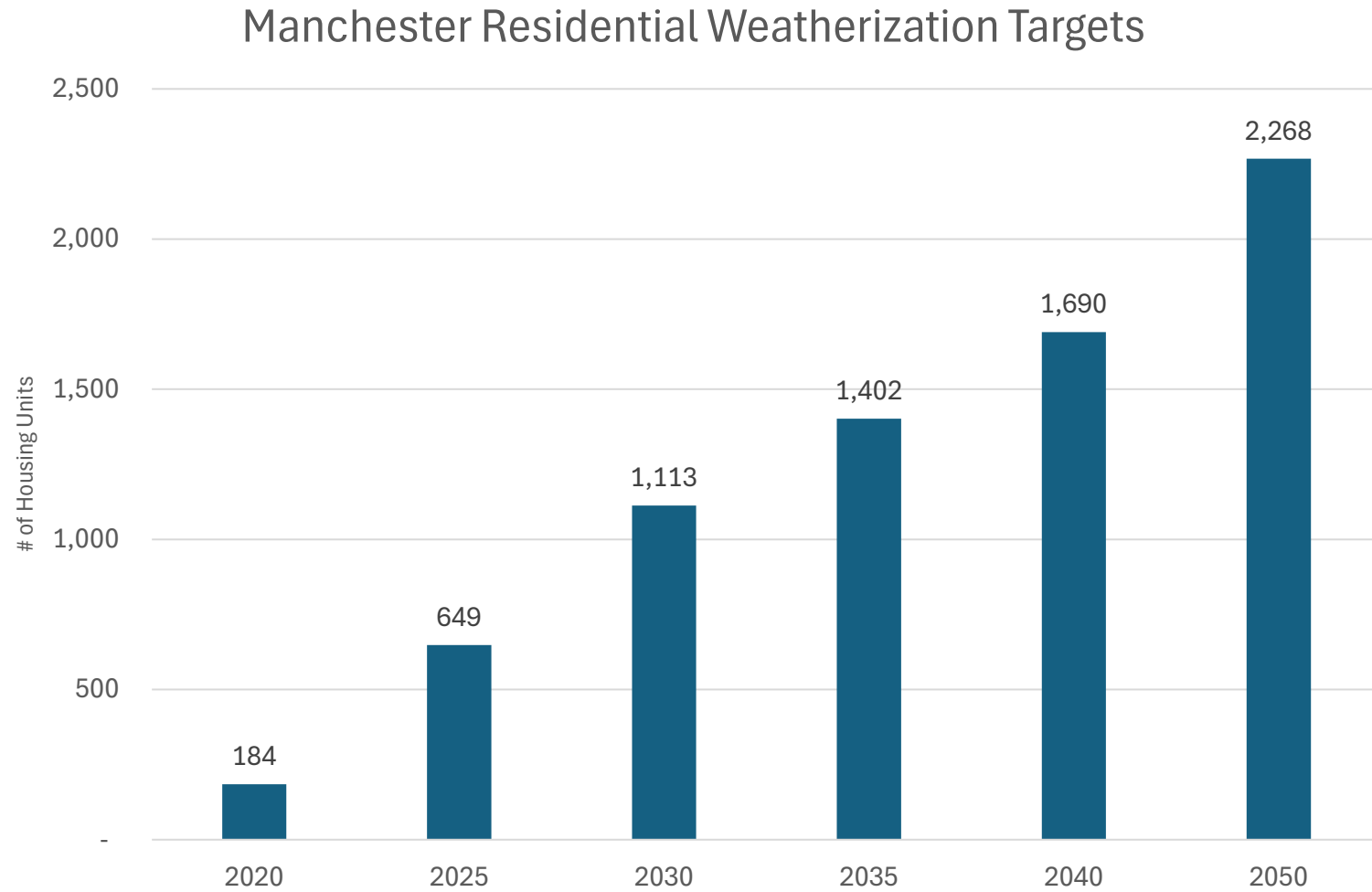
Manchester Residential Energy Demand



Residential Energy Demand & Targets

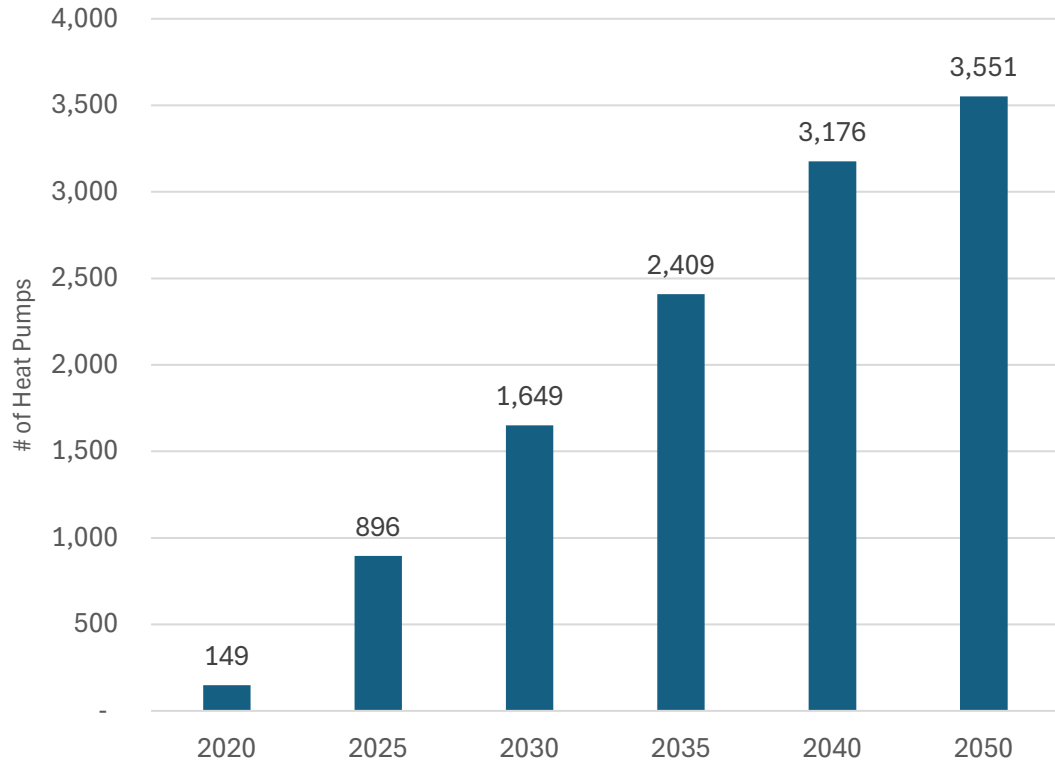


Residential Energy Demand & Targets

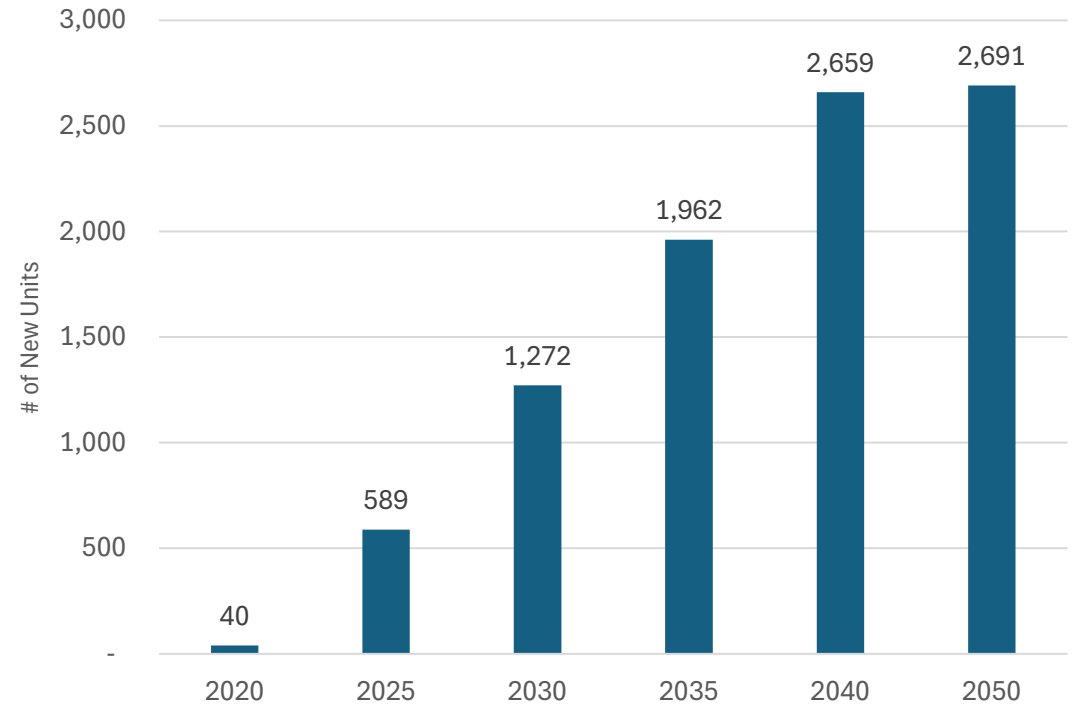


Residential Energy Demand & Targets

Manchester Residential Heat Pump Targets

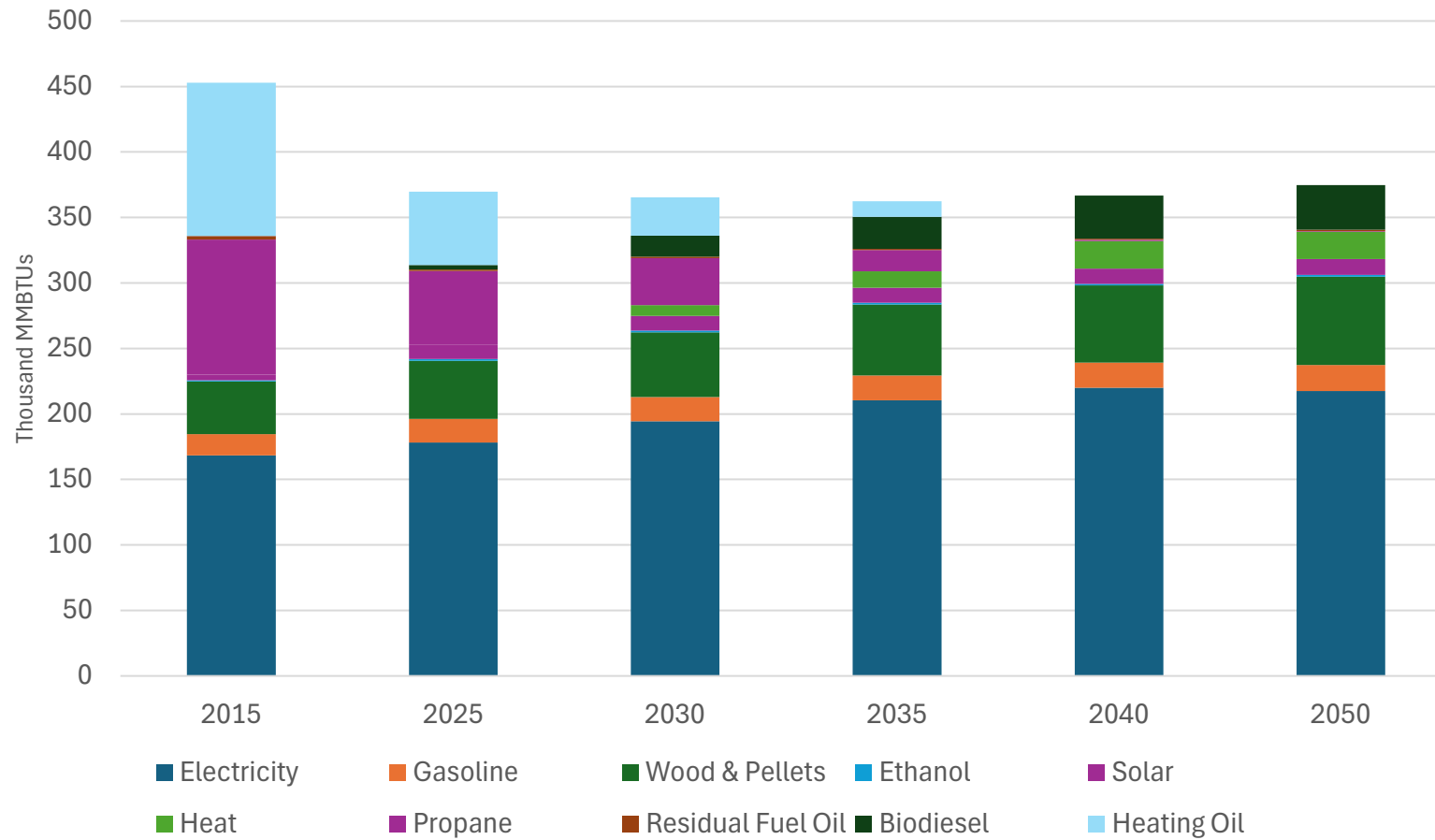


Manchester Residential Heat Pump Water Heater Targets



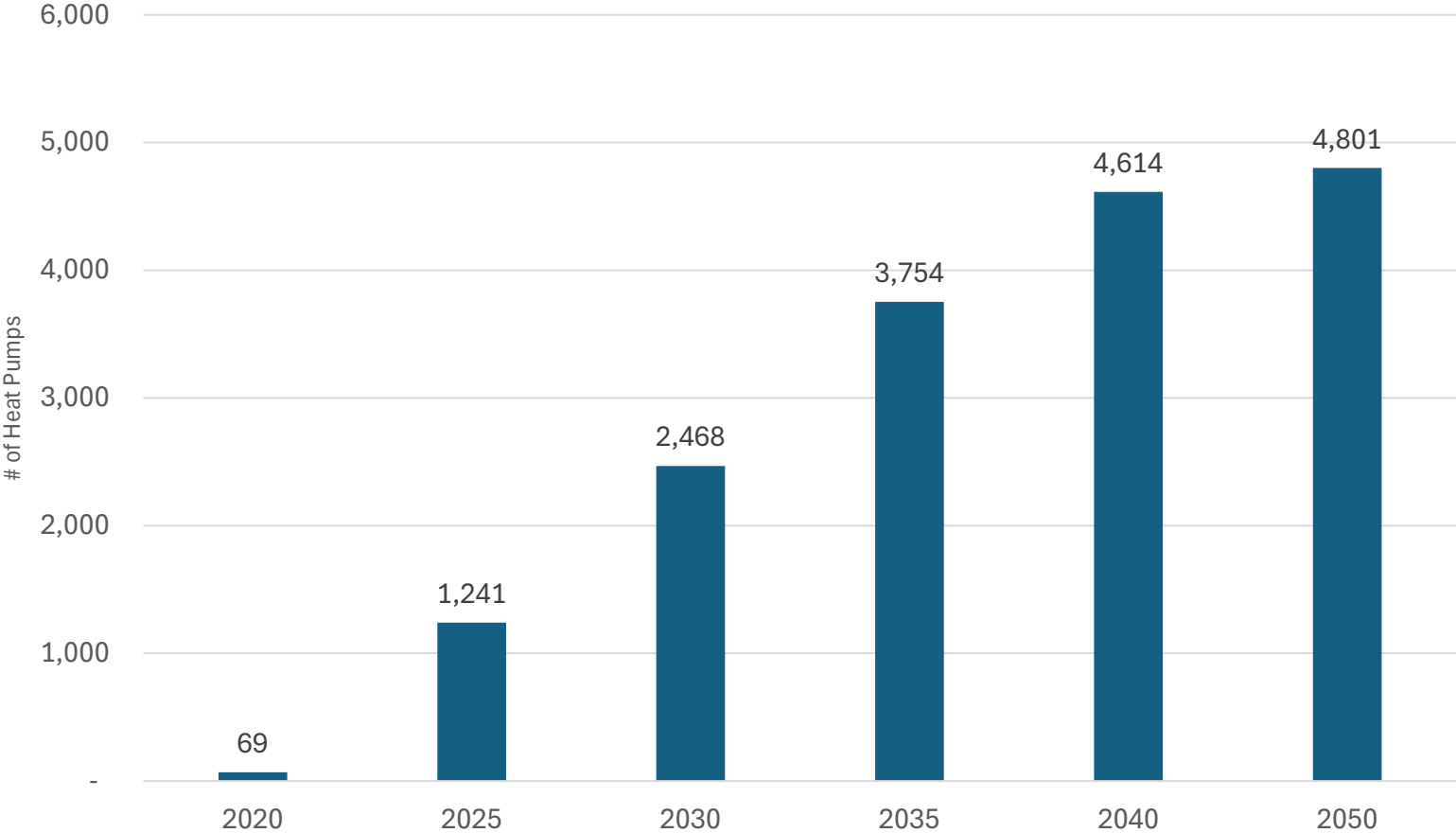
Commercial Energy Demand & Targets

Manchester Commercial Energy Demand



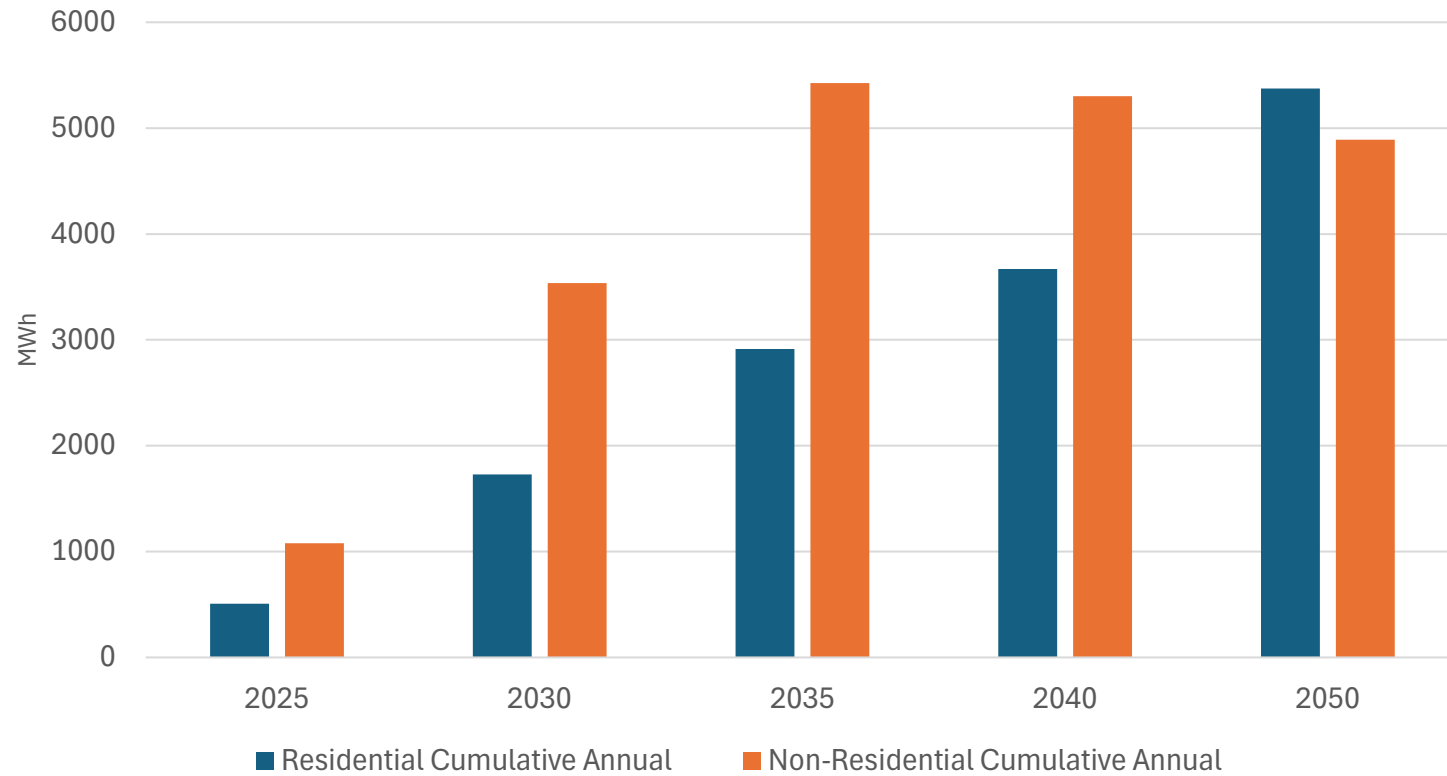
Commercial Energy Demand & Targets

Manchester Commercial Heat Pump Targets



Electric Efficiency

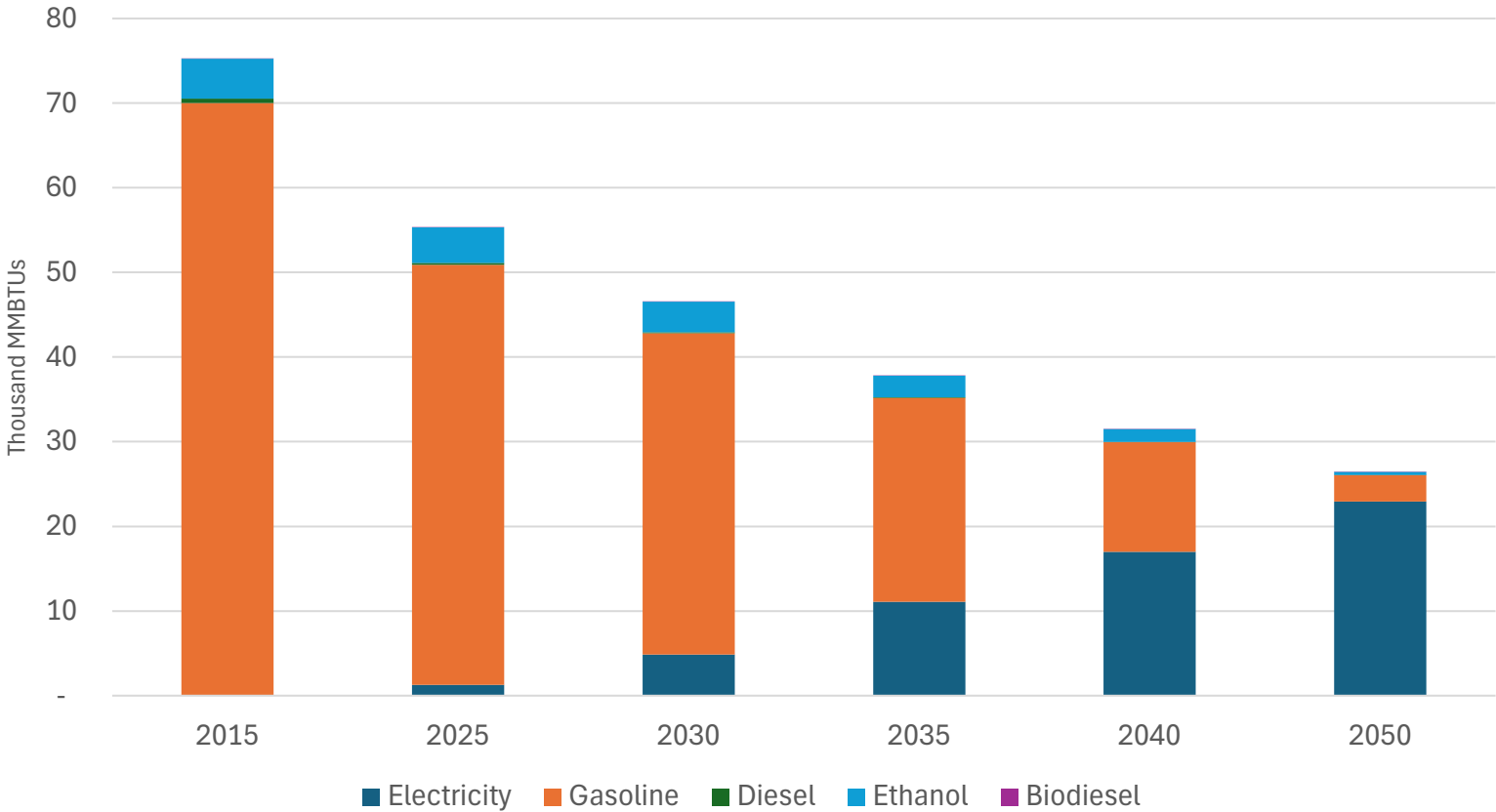
Manchester Electric Efficiency Savings



Data source: EEU Potential Study

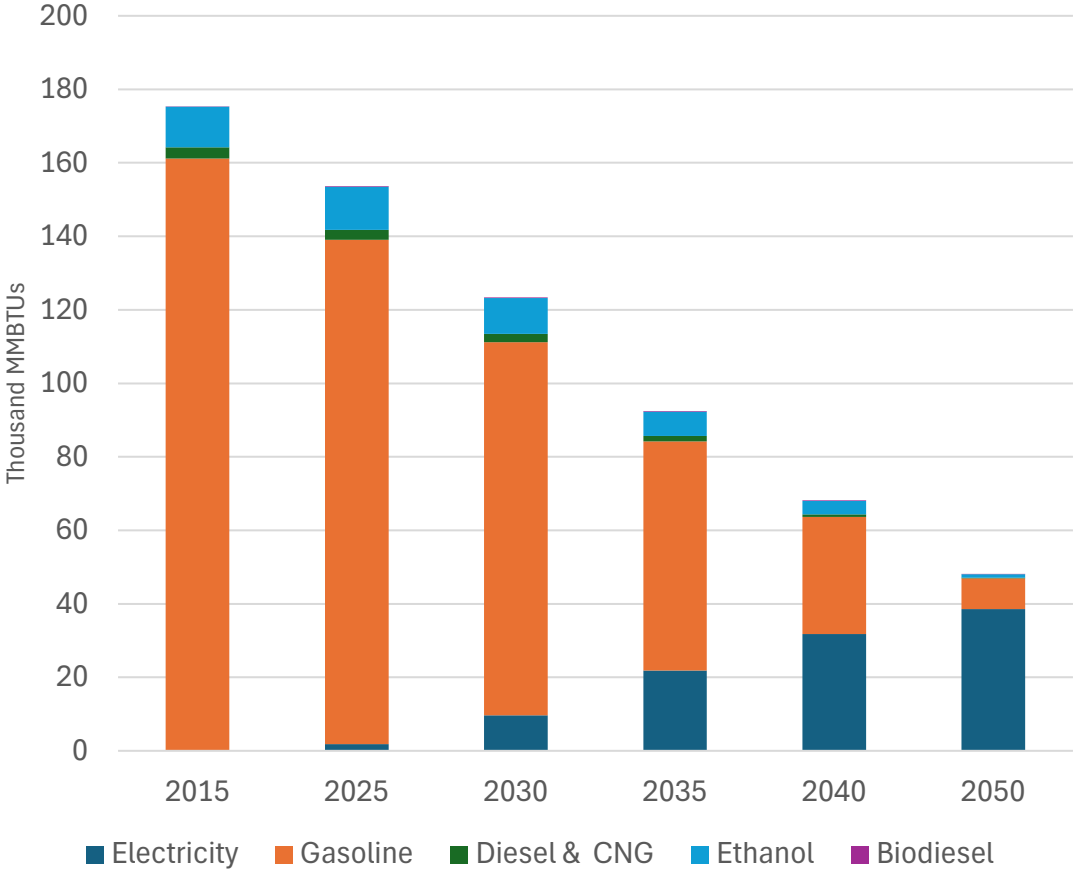
Transportation Energy Demand & Targets

Manchester Passenger Car Energy Demand

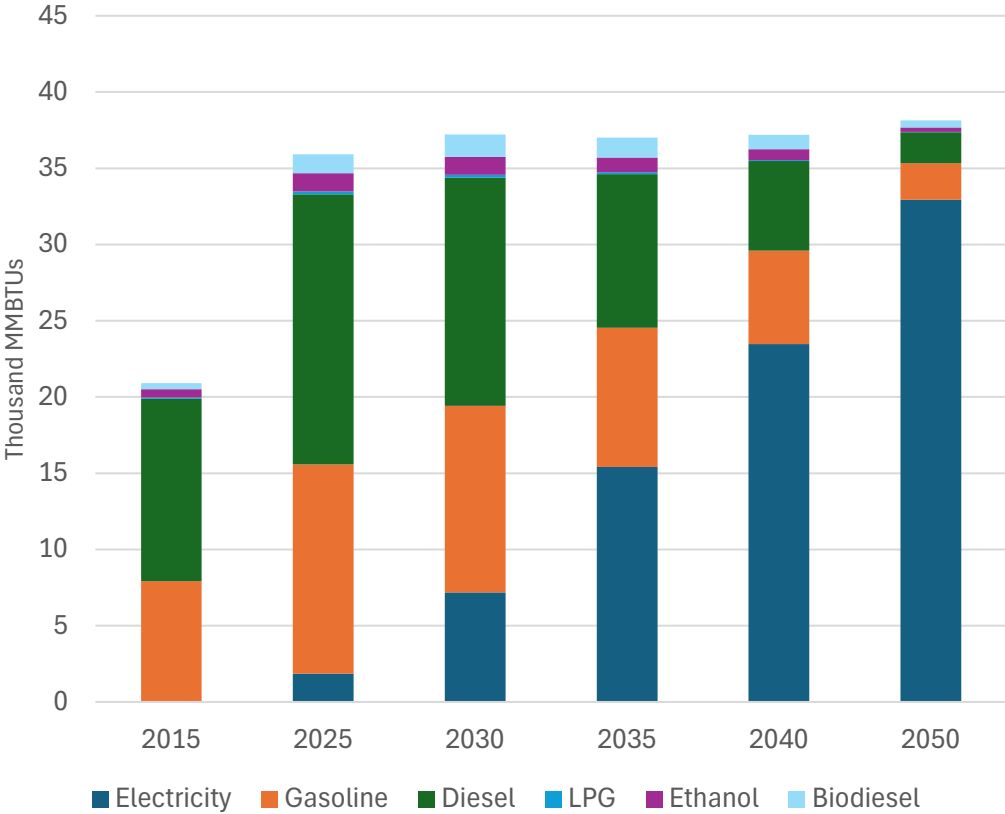


Transportation Energy Demand & Targets

Manchester Light Truck Energy Demand

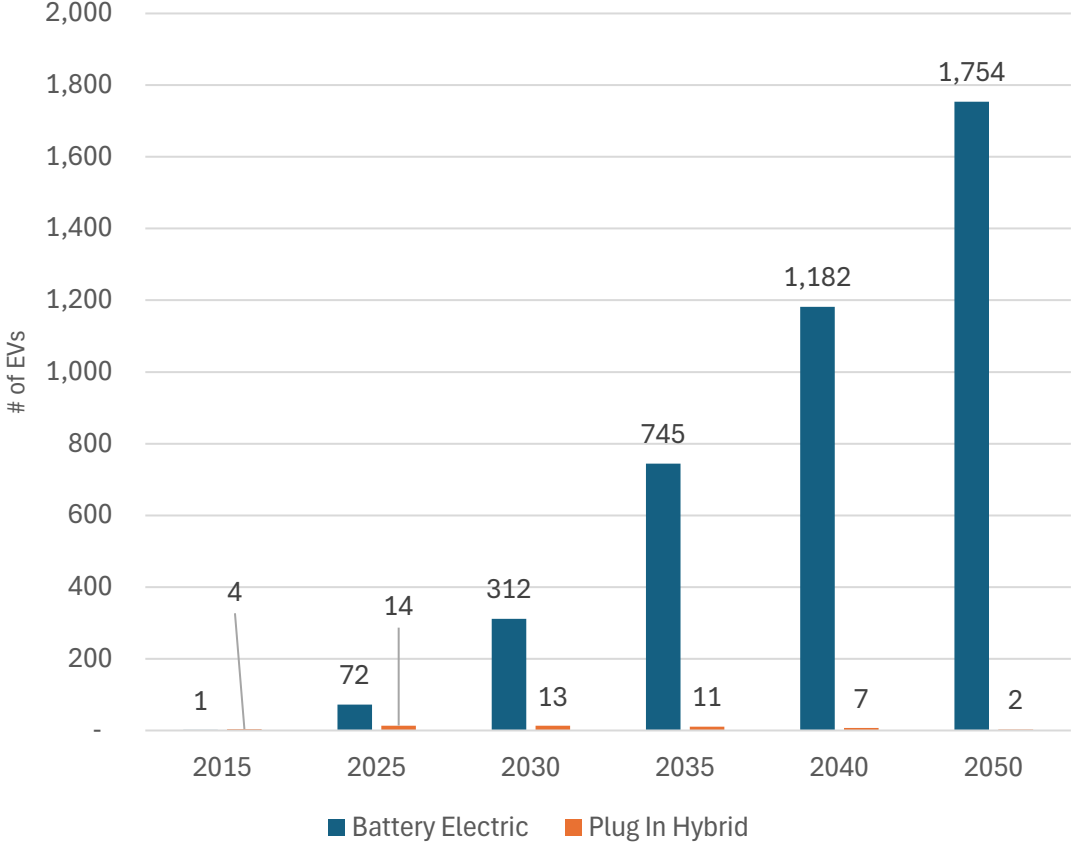


Manchester Medium Duty Truck Energy Demand

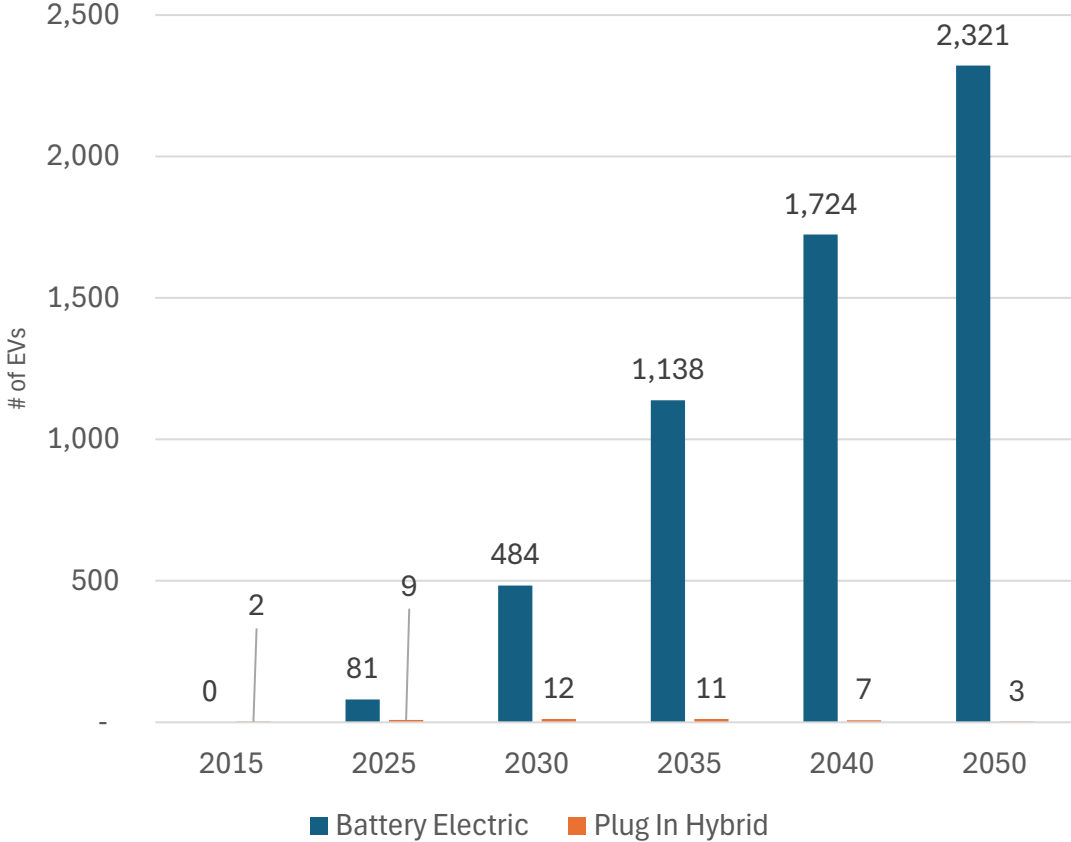


Transportation Energy Demand & Targets

Manchester EV and PHEV Targets



Manchester Light Truck EV and PHEV Targets



Renewable Energy Generation Targets (in MW)

YEAR	SOLAR	ROOFTOP SOLAR	WIND	HYDRO	TOTAL
2025	1.7	1.3	0.1	0	3.1
2035	3.5	2.8	0.2	0.1	6.6
2050	5.2	4.1	0.3	0.1	9.7

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