Appendix A: Enhanced Energy Planning Data

Appendix A: Energy Data

Andover

Population

Total Population[i] (2015):	550
Proj. Annual Avg. Growth Rate[ii]:	↑ 0.00106
Population Density:	19.12 persons/ square mile

Households

Owner-Occupied Units[iii]:	187
Renter- Occupied Units[iii]:	31
Total Households[iii]:	408
Avg. Household Size[iii]:	2.14 people/ household

Businesses[iv]

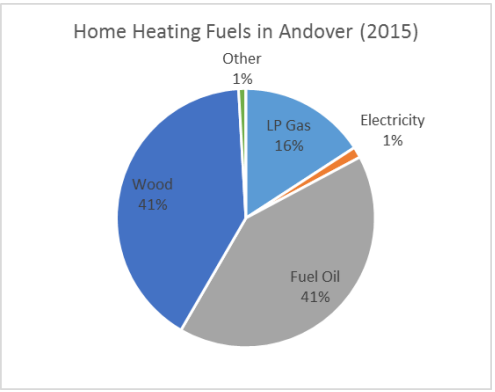
Total businesses in Andover:	12
Employees working in Andover:	36
Average wage:	$34,275

Heating

Residential[i] (see figure)

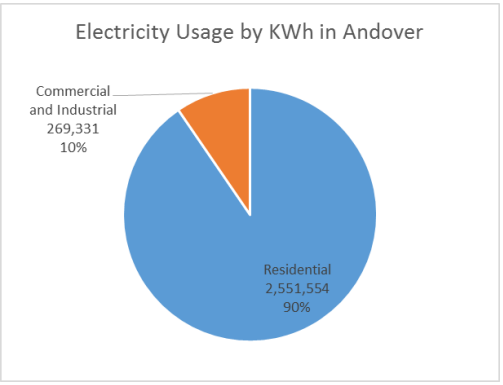
Businesses[v]:

Estimated avg. building space:	2,298 sq. ft.
Total energy use:	998.3 million BTUs
Estimated total annual cost:	$23,806
Avg. annual cost per business:	$1,984



Transportation

Number of vehicles:	323
Estimated vehicle miles traveled:	6.2 million
Estimated gal. fuel used per year:	288,848
Estimated fuel cost per year:	$989,306
Residents driving alone to work:	69%
Average commute time:	22 minutes



Electricity Use

Electricity Usage in 2015[vi]	(see figure)
Avg. Residential Usage:	6,465 KWh
Total Usage (2014-2016):	↓ 229,958 KWh
	↓ 7.5%

Energy Generation

Existing Renewable Energy Generation

Solar	11 sites	69 KW	84,376 KWh
Wind	0	0	0
Hydro	0	0	0
Biomass	0	0	0

Renewable Energy Generation Targets[vii]

2015 (Baseline)	84.4 MWh
2025	2,565 MWh
2035	5,131 MWh
2050	10,261 MWh

Potential for Renewable Energy Generation[viii]

Rooftop Solar	0.55 MW	672 MWh
Ground-Mounted Solar	285 MW	349,570 MWh
Wind	2,121 MW	6,502,220 MWh
Hydro	0	0

[i] U.S. Census Bureau, American Community Survey (ACS) 2011-2015
[ii] Based on Scenario B population projections for 2030 (VT ACCD, 2013)
[iii] U.S. Census Bureau, Decennial Census (2010)
[iv] Vermont Department of Labor Statistics (2015)
[v] Estimated based on number of units, estimated floor space, heating fuel types and average fuel costs for 2015. Floor space was estimated from average commercial/manufacturing floor space per employee from the U.S. Energy Information Administration.
[vi] Efficiency Vermont (2017)
[vii] SWCRPC
[viii] Based upon an analysis of GIS data mapping data (i.e. land area shown on the solar and wind potential maps)