PEAK COOLING ANALYSIS

Data base Size: 1090 Units
Includes SFD, town homes and Small MURBS
Climate zones 4-7 are represented with the bulk of homes located in CZ 4 and 5

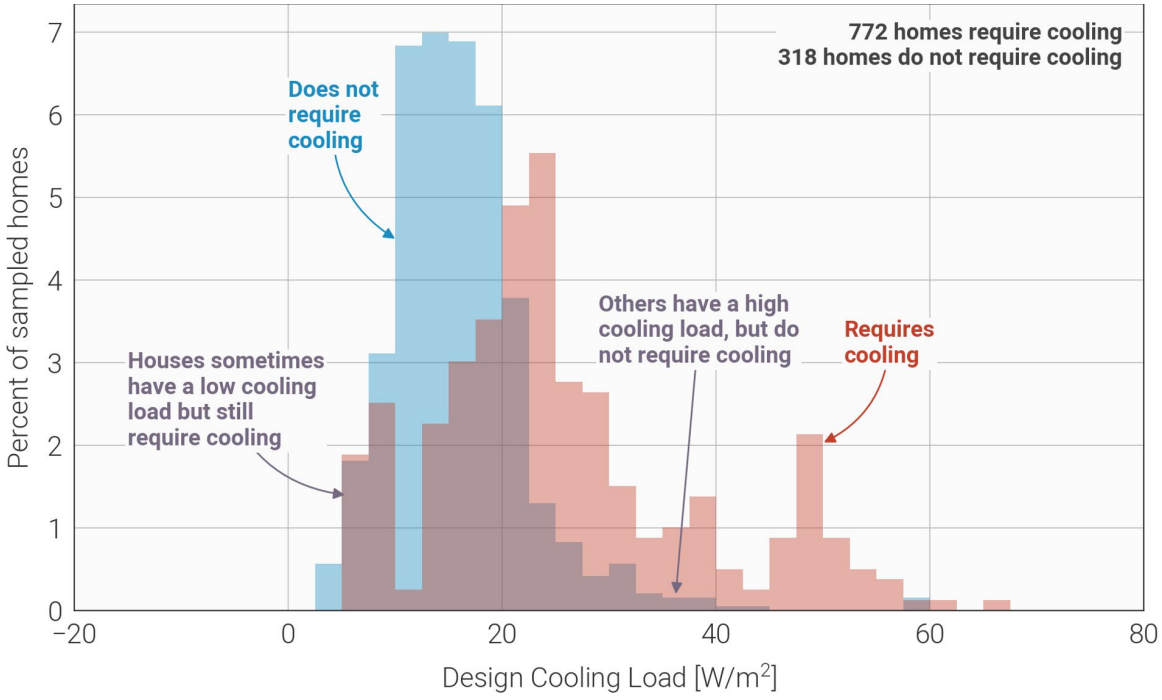
Correlations

Step Code: Moderate correlation for homes reaching lower steps. Homes that met lower steps with high cooling loads were more likely to fail the cooling test and those with low cooling loads. Homes that met the higher steps had very week correlation to passing or failing based on their cooling load.

Total Energy Use Intensity: The higher the total energy use intensity the less correlation there is with pass / fail of the cooling test.

Size / volume and surface area: There is al low correlation with pass fail of the cooling test with heating volume, floor space and surface area.

Cooling Load Alignment
13% (145) of the Homes have a low cooling load but fail the metric.
7% (79) homes pass but have high cooling loads



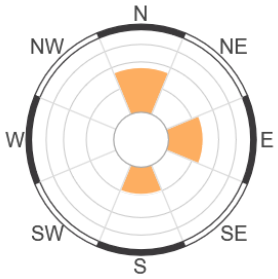
Edge Cases

Lowest Cooling load that Failed the test.

Small Affordable single-family home, located in Nanaimo. The Home has cooling, based on position and size of this home it is very unlikely to overheat.

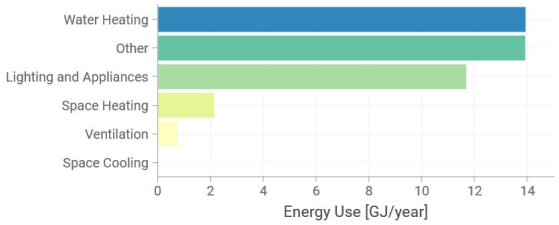


Window Distribution

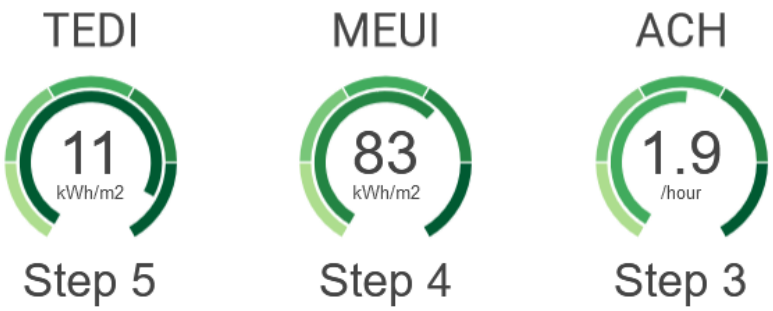


Energy Use





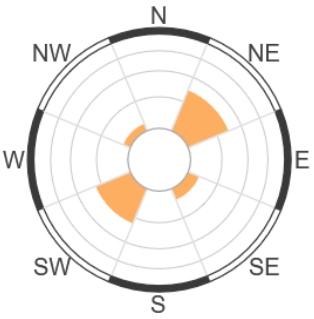
Step Code Metrics



Highest Cooling load that Passed the test.

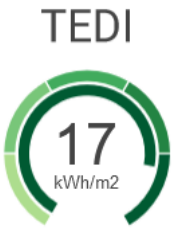
High end Medium sized Single-family Home located in Black Creek Vancouver Island. Against EA Advice the home dose not have cooling. High amounts of glazing to the SW mean without AC this home will get very hot.

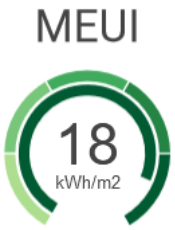
Window Distribution





Step Code Metrics







Energy Use



