

Project Summary



Building Summary

Building Type	
Conditioned Floor Area	24,073 ft ²
Total Building Area	24,073 ft ²
Gross Wall Area	10,348 ft ²
Window-Wall Ratio	10.49 %
Gross Roof Area	12,375 ft ²
Skylight-Roof Ratio	0 %
Average Plug Load Density	0.15 W/ft ²
Average Lighting Density	0.17 W/ft ²
Peak Occupancy	6
Site Ventilation	1,200 ft ³ /min
Cooling Specific Air Flow	3,413 ft ³ /min
Heating Specific Air Flow	4,045 ft ³ /min
Site Peak Cooling Load	11 tons
Site Peak Heating Load	357 MBh

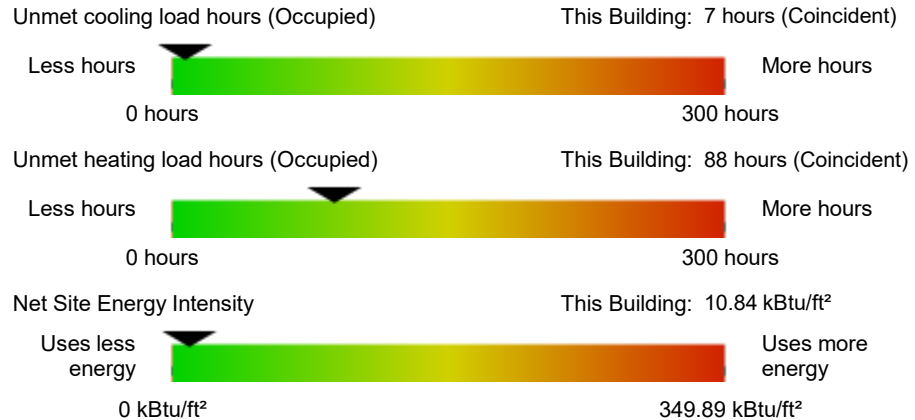
Weather Summary

Location	KIRUNA - SWE	
Weather File	SWE_Kiruna.020440_IWEC	
Latitude	N 67° 49	
Longitude	E 20° 19	
Time Zone	GMT +1.0 Hours	
Summer Design Dry Bulb Temperature (1%)		68.0
Winter Design Dry Bulb Temperature (99%)		-15.9
User Defined		
Summer Design Day Dry Bulb Temperature		68.1
Coincident Design Day Wet Bulb Temperature		55.9
Winter Design Day Dry Bulb Temperature		-21.6

Project Information

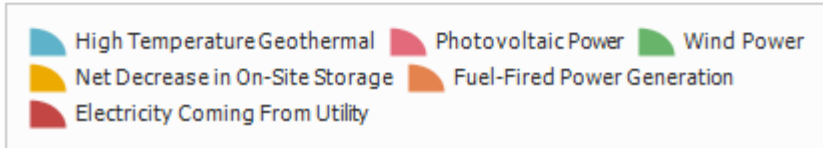
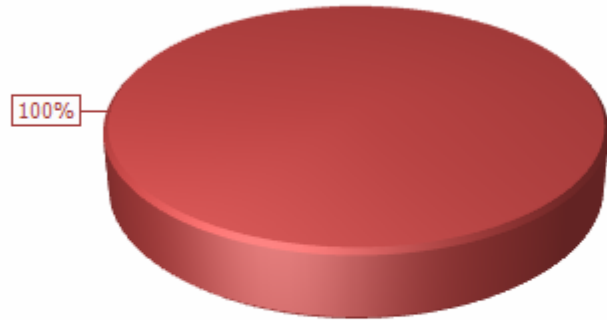
Project Name	Santa's House & Workshop
Building Owner	Santa
Location	North Pole, Finland
Program User	CSR
Company	Lorax Partnerships

Building Performance



Site Performance

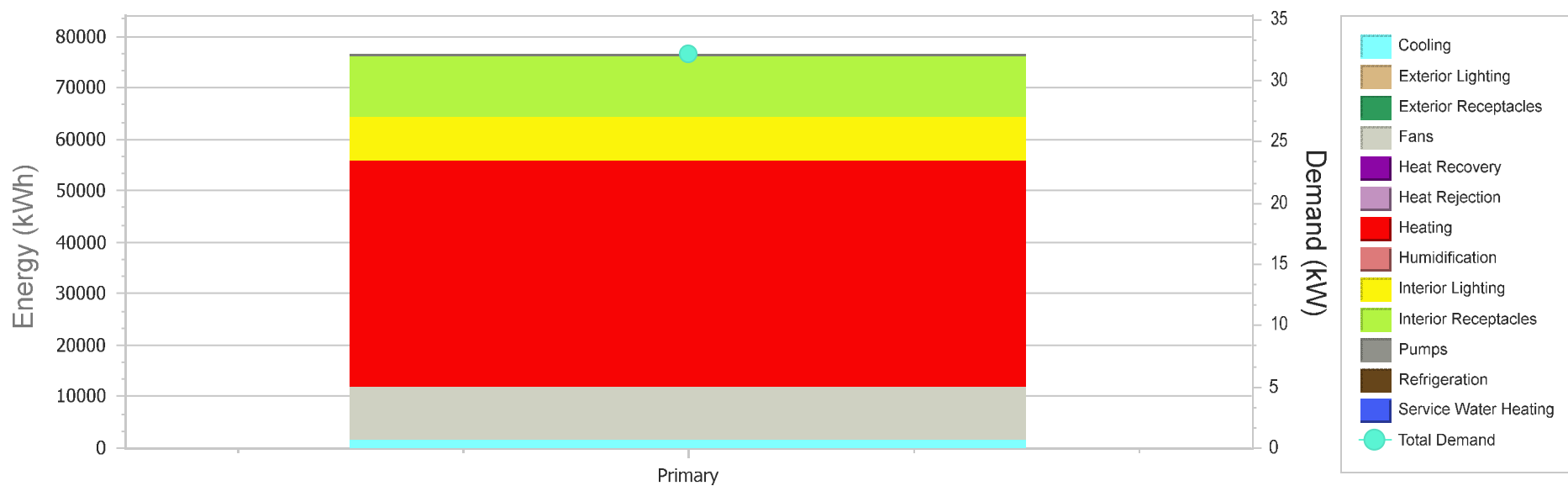
Net Source Energy Use Intensity (EUI)	34.3 kBtu/ft ²
Annual Electrical Consumption	76,486 kWh
Annual Peak Electrical Demand	26 kW
Annual Gas Consumption	0 MMBtu
Annual Water Consumption	0 gal



Fuel-Fired Power Generation	0 kWh
High Temperature Geothermal	0 kWh
Photovoltaic Power	0 kWh
Wind Power	0 kWh
Net Decrease in On-Site Storage	0 kWh
Sub-Total On Site Electricity	0 kWh
Electricity Coming From Utility	76,485 kWh
Surplus Electricity To Utility	0 kWh
Net Electricity From Utility	76,485 kWh
Total Electric Sources	76,485 kWh

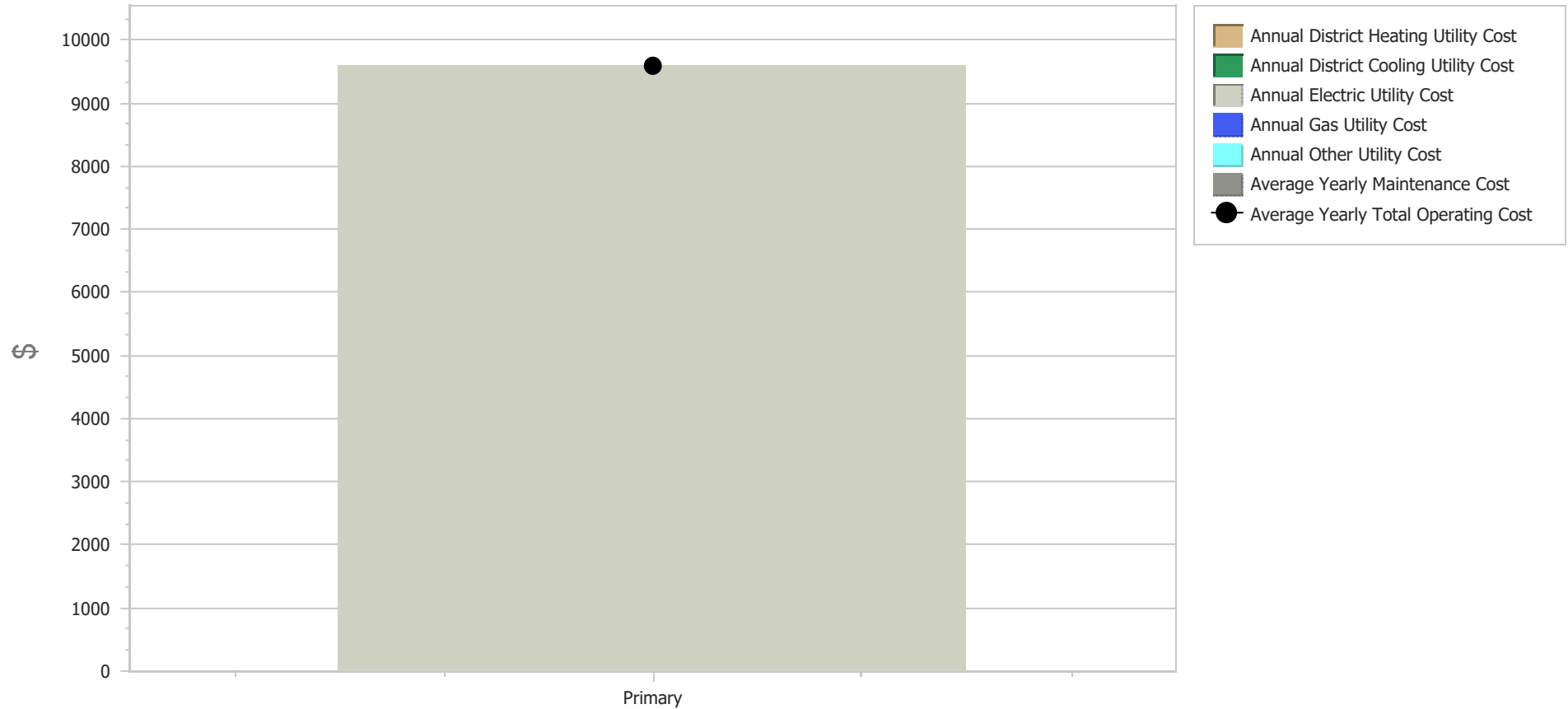
Water-Side Heat Recovery	0 kWh
Air to Air Heat Recovery Cooling	0 kWh
Air to Air Heat Recover Heating	0 kWh
High-Temperature Geothermal	0 kWh
Solar Water Thermal	0 kWh
Solar Air Thermal	0 kWh
Total On-Site Thermal Sources	0 kWh

Alternative Annual Electricity End Use and Demand Comparison



	Primary	
	Energy (kWh)	Demand (kW)
Cooling	1,646.29	1.90
Exterior Lighting	0.00	0.00
Exterior Receptacles	0.00	0.00
Fans	10,324.23	1.69
Heat Recovery	0.00	0.00
Heat Rejection	0.00	0.00
Heating	43,908.90	22.83
Humidification	0.00	0.00
Interior Lighting	8,427.65	2.79
Interior Receptacles	12,177.91	2.95
Pumps	0.79	0.00
Refrigeration	0.00	0.00
Service Water Heating	0.00	0.00
Grand Total	76,485.77	32.15

Economic Alternative Comparison



	Primary
Annual District Cooling Utility Cost	0
Annual District Heating Utility Cost	0
Annual Electric Utility Cost	9,600
Annual Gas Utility Cost	0
Annual Other Utility Cost	0
Average Yearly Maintenance Cost	0
Average Yearly Total Operating Cost	9,600