

Avista references the Regional Technical Forum as its primary resource for unit energy savings (UES) values. The Company’s Technical Reference Manual (TRM), representing results from impact analysis studies on its portfolio, is used when a suitable UES value is not available from the RTF.

In consideration of the UES values incorporated into the Conservation Potential Assessment and its establishment of the biennium’s energy efficiency target, Avista recognizes the RTF body of work as of April 5, 2013 incorporated into this fixed UES list by reference. This date coincides with the initial UES data captured in the creation of the referenced CPA.

The UES list below represents the applicable measures available from Avista’s TRM. These values will remain fixed until the annual update of the TRM for existing measures and program acquisition. Additional measures identified during the biennium that do not have fixed UES values will be subject to third-party measurement and verification in compliance with filed EM&V plan.

Baseline Technology	Efficient Technology or Measure	Savings (kWh)	UOM
<b>Residential</b>			
<b>Home Improvement Program</b>			
Federal Standard Compliant 50 Gallon Electric Tank Water Heater (EF=0.909)	50 Gallon Electric Tank Water Heater with EF>0.93	119.1	each
Federal Standard Compliant Gas Tank Water Heater	Existing Electric Tank DHWH System	4,031.17	each
DHP Meeting Federal Standard	High Efficiency Ductless Heat Pump	184.63	System
Home Using a Standard Efficiency Air Source Heat Pump	Home Using a High Efficiency Air Source Heat Pump	336.52	System
Home Using a Standard Efficiency Air Source Heat Pump	Home Using a High Efficiency Air Source Heat Pump (Elec Furnace)	394.11	System
Home Using a Standard Efficiency Air Source Heat Pump	Home Using a High Efficiency Air Source Heat Pump (Gas Furnace)	317.98	System
Home Using an Electric Resistance Forced Air Furnace	Home Using a Standard Efficiency Air Source Heat Pump	6,589.31	System
Home Using an Electric Resistance Forced Air Furnace	Home Using a Standard Efficiency Gas Furnace	12,012.42	System
Fixed Speed Furnace Air Handler Fan	Variable Speed Furnace Air Handler Fan	438.55	each
Energy Code Compliant New Home (2012-2013)	Energy Star Home - All Electric Heating	2,510	House
Energy Code Compliant New Home (2012-2013)	Energy Star Homes - Gas Heating	1,054	House
Unweatherized Home	Weatherized Home	891.41	each
Unweatherized Attic (R<10)	Weatherized Attic (Additional R>10)	0.51	Savings/sqft
Unweatherized Wall (R<5)	Weatherized Wall (Additional R>10)	1.83	Savings/sqft
Unweatherized Floor (R<5)	Weatherized Floor (Additional R>10)	1.83	Savings/sqft
<b>Lighting</b>			
Retail Purchase - Standard Incandescent	Retail Purchase - Standard CFL	21.62	Bulb
Retail Purchase - Specialty Incandescent	Retail Purchase - Specialty CFL	28.62	Bulb
Retail Purchase - 3-Way Specialty Incandescent	Retail Purchase - 3-Way Specialty CFL	32.96	Bulb
Existing Standard Incandescent	Geographic Give Away Standard CFL	23.74	Bulb
Existing Specialty Incandescent	Geographic Give Away Specialty CFL	21.98	Bulb
<b>Appliance Recycling</b>			
Unwanted or Second Refrigerator	Recycled Refrigerator (2012)	1,082.99	each
Unwanted or Second Freezer	Recycled Freezer (2012)	880.69	each

**ENERGY STAR Appliance**

Non Energy / Federal Standard Compliant Clothes Washer (Elec DHWH).	ENERGY STAR qualified Clothes Washer (Elec DHWH) (2012)	490.14	each
Non Energy / Federal Standard Compliant Clothes Washer (Gas DHWH).	ENERGY STAR qualified Clothes Washer (Gas DHWH) (2012)	318.43	each
Non Energy / Federal Standard Compliant Freezer	ENERGY STAR qualified Freezer (2012)	46.52	each
Non Energy / Federal Standard Compliant Refrigerator	ENERGY STAR qualified Refrigerator (2012)	65.52	each

**Low Income**

No Insulation or low R- value insulation	E INS - BUNDLE (CEIL/ATTIC, FLOOR, WALL)	0.67	Savings/sqft
No Insulation or low R- value insulation	E FLOOR INSULATION-ELECT HEAT	1.83	Savings/sqft
No Insulation or low R- value insulation	E WALL INSULATION-ELECT HEAT	1.83	Savings/sqft
No Insulation or low R- value insulation	E ATTIC INSULATION-ELECT HEAT	0.51	Savings/sqft
No Insulation or low R- value insulation	E INS - DUCT	0.53	Savings/sqft
Air Infiltration Issues	E AIR INFILTRATION	0.31	Savings/sqft/0.1 ach
Standard Window	E ENERGY STAR WINDOWS	0.33	Savings/sqft
Standard Door	E ENERGY STAR DOORS	248.21	each
Standard Water Heater	E HE WH	105	each
Standard Refrigerator	E ENERGY STAR REFRIGERATOR	811	each
No Programmable Thermostat	E PROG TSTAT NO AC	415.15	House
Standard Electric Furnace	E TO G FURNACE CONVERSION	8,213.81	each
Standard Electric Water Heater	E TO G H2O CONVERSION	4,031.06	each
No Smart Strip	E SMART STRIPS	100	each
Constant Speed Motor or Broken ECM Motor	E ECM MOTOR REPLACE/REPAIR	341.65	each
Electric Baseboard and No Room AC	E DUCTLESS MINI-SPLITS	2,697.8	Home
Electric Baseboard and Room AC	E DUCTLESS MINI-SPLITS	2,847.96	House

**Commercial**

Receiver Capacity less than 2 Gals/CFM delivery	Receiver Capacity greater than 2 Gals/CFM delivery	0.0035	Gallon*OpHours
Air Dryer running continuously to meet heat load from compressed air	Air Dryer cycling to meet heat load from compressed air	0.003	SCFM*OpHours
Fixed Speed Rotary Air Compressor with Inlet Modulation	Variable Speed Rotary Air Compressor to control discharge flow	0.18	HP*OpHours
Condensate Drain that discharges without concern for compressed air discharge	Condensate drain that discharges only water	0.15	EACH*OpHours
Air Filter that imposes a 10 psig drop at end of life	Air Filter that imposes less than a 3 psig drop at end of life	0.002	SCFM*OpHours