



Technology	Rank by Average Score	Average Rating	# Responses	Highest Rating	Lowest Rating	# of "5's"	# of "0's"	E3TNW Record #
<b>Firmware Upgrade for Ductless Heat Pumps*</b>	1	4.06	16	5	2	5	0	608
Ducts in the Conditioned Space	2	3.67	21	5	1	5	0	154
Heat Pump Clothes Dryer, Residential	3	3.60	20	5	2	4	0	224
<b>High-Efficiency Set-Top Boxes*</b>	4	3.57	21	5	1	4	0	84
Performance Ratings for Variable-Speed Heat Pumps	5	3.50	16	5	0	4	1	591
Technical Support for the Use of Engineered Lumber	5	3.50	12	5	2	2	0	579
<b>Reduce Appliance Standby Loads*</b>	7	3.47	17	5	0	4	1	601
Simplified Duct Design Methodology	8	3.47	15	5	1	1	0	595
Smart Ventilation Systems With On-Board Diagnostics	8	3.47	15	5	2	2	0	589
HRV for Common Spaces in Multi Family Buildings	10	3.43	21	5	2	2	0	186
Technical Support for the Use of Advanced Framing Techniques	11	3.40	15	5	2	2	0	580
Structural Insulated Sheathing	12	3.36	14	5	2	1	0	582
Technical Support for the Use of SIPs Panels	13	3.33	12	5	2	2	0	577
<b>3-Function Heat Pump: Hot Water, Radiant Floors, and Cooling*</b>	14	3.25	20	5	2	3	0	156
High-Efficiency Hot Water Distribution System	14	3.25	16	5	0	3	1	605
Factory-Assembled Double-Stud Walls	16	3.24	17	5	2	2	0	584
On-Board Diagnostics for HVAC Equipment, Residential	17	3.22	18	4	1	0	0	586
Variable Speed Compressor Single Zone Ducted Heat Pump	18	3.21	19	5	0	2	2	332
Demand-Controlled Ventilation, Residential	19	3.20	15	5	0	1	1	590
Modeling Guidelines for High Performance Homes	20	3.18	17	5	2	2	0	583
Improve Airflow Diagnostics, Residential	21	3.15	13	5	1	1	0	594
ECPM Motor for Residential Forced Air Units	22	3.15	20	5	1	3	0	193
Low Energy Home Districts	23	3.13	15	4	1	0	1	567
High Performance Window Value Purchase Program	24	3.11	18	5	0	3	1	367
Natural Ventilation for Nighttime Cooling, Residential	25	3.06	16	5	1	1	0	597
Residential Daylighting Strategies	25	3.06	16	5	1	1	0	598
Low Static Pressure Air Filters	27	3.05	20	5	0	3	2	195
Passive Options for Heating and Ventilation	28	3.00	20	5	1	3	0	14
Super Energy Saver Heat Pump	28	3.00	20	5	2	1	0	285
Vacancy Sensors	28	3.00	20	5	1	1	0	349
Waveguide for LED Fixtures	28	3.00	14	4	1	0	0	600
Get Sealants and Caulks with Longer Lives	32	2.94	16	4	0	0	1	-
Insulated Cellular Shades	32	2.94	16	4	1	0	0	474
Latex Air Sealing Spray	34	2.93	14	5	1	1	0	581
Energy Efficient Computer Power Supplies and Adapters	35	2.90	20	5	1	1	0	189
High Volume Purchasing	35	2.90	20	5	0	5	2	318
Regulations to Require High-Efficiency Appliances	37	2.88	17	5	0	3	2	602
Integrated Nighttime Ventilation Cooling	38	2.88	16	4	1	0	0	572
District Heating	39	2.87	15	4	0	0	1	585
Exhaust Air Heat Recovery for Heat Pump Water Heaters	39	2.87	15	5	1	1	0	588
Auto Off Switch for Appliances	41	2.85	20	4	0	0	1	421
Air to Water and Water to Water Heat Pump, Turbo Loop	42	2.83	18	5	0	4	2	190
Low Pressure Residential Duct Design with ECPM Motors as a Package	43	2.82	17	5	0	2	2	194
Master Control for Residential Electrical Appliances	43	2.82	17	5	0	1	2	336
Liquid Applied Weather Resistant Barrier, Residential	45	2.79	14	5	0	1	1	570
Utility Programs Using Smart Thermostats	46	2.78	18	5	1	1	2	460
Phase change Materials	47	2.76	17	5	1	2	0	229
Self-Powered Lighting Switches	48	2.73	15	5	0	1	1	599
Residential Electricity Usage Monitoring Device	49	2.71	21	5	1	2	0	94
Smart Residential Outlets	50	2.71	17	4	0	0	1	511
On Bill Financing of Energy Efficiency Projects	51	2.65	20	4	0	0	4	408
LED Under-Cabinet Lighting	52	2.63	19	4	0	0	3	150
Smart Garage	52	2.63	19	5	1	1	0	76

\* These technologies were selected to be scored



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Size Residential Appliances for Efficiency	54	2.63	16	5	1	3	3	568
Energy-Efficient Office Equipment	55	2.61	18	4	0	0	2	148
Virtual Energy Audits, Residential	56	2.60	15	4	1	0	0	574
Occupancy-Sensor or Switch-Activated Hot Water Circulation System	57	2.59	17	4	1	0	0	604
Unified Energy Rating and Labeling System for Homes	57	2.59	17	5	0	2	2	607
Non Intrusive Load Monitoring	59	2.55	20	5	0	2	1	294
Smart Circuit Controllers	59	2.55	20	5	0	1	3	280
Green Button Initiative	61	2.50	20	5	1	2	2	422
Increased HVAC Air Flow for Improved Performance, Residential	61	2.50	14	4	0	0	1	592
Permanently Installed Airflow Sensors on Residential HVAC Equipment	61	2.50	14	4	0	0	1	587
Residential Scale Combined Heat and Power (CHP)	61	2.50	20	4	0	0	2	73
Residential Water-Cooled Condenser	61	2.50	18	4	0	0	3	88
Use NREL's BEopt Program to Help Optimize Design for New Homes	61	2.50	14	5	1	1	1	566
Utility-to-Building Connection	61	2.50	20	5	0	3	3	72
Automated Residential Shades	68	2.47	17	4	1	0	0	571
Residential Occupancy Based HVAC Energy Management	69	2.45	20	4	0	0	2	321
Spot Energy Recovery Ventilation Residential	69	2.45	20	4	0	0	2	320
Improved Duct Sealing Standards, Residential	71	2.44	16	4	0	0	1	593
Wireless Home Energy Automation Controls	71	2.44	16	4	0	0	2	606
Smart Charger Controller	73	2.43	21	5	0	1	4	282
Vacuum Panels Sandwiched Between Rigid Insulation	73	2.43	14	4	0	0	2	578
Vacuum Insulation Panels	75	2.40	15	4	1	0	1	531
Condensing Residential Clothes Dryers	76	2.37	19	5	0	1	3	198
Hand Held Audit Devices	76	2.37	19	5	0	2	4	363
In Home Energy Use Displays	78	2.35	20	4	0	0	1	362
Smart Tempering Valves, Residential	79	2.33	15	4	1	0	0	-
Home Energy Automation with Utility Demand Response Controls	80	2.28	18	5	0	1	3	333
Wireless Home Energy Automation Controls	80	2.28	18	4	0	0	2	337
Low Cost Operational Strategies for Increasing Cooling Efficiency	82	2.26	19	5	0	1	2	191
Electron Stimulated Luminescence Lighting	83	2.22	18	5	0	1	3	104
Innovative Behavior Change Techniques	83	2.22	18	4	0	0	4	387
Water-Cooled Air Conditioner for Residential Application	83	2.22	18	4	0	0	3	151
Hybrid Direct Expansion With Evaporative Cooling	86	2.21	19	3	0	0	1	59
Auto Off Controls for Electric Blankets and Heated Mattress Pads	87	2.20	15	4	1	0	2	569
Insulative Cement	88	2.18	17	3	1	0	2	463
Dimmable Fluorescent Lighting	89	2.11	19	4	0	0	2	137
Air Cowl-Driven Air-to-Air Heat Exchangers	90	2.08	12	4	0	0	2	596
Domestic Water Heating from Condensing Air Conditioning Units	91	2.00	20	4	0	0	3	8
Hybrid Solar Electric/Thermal System	91	2.00	19	4	0	0	2	326
Heat Pump Maximizer	93	1.95	21	5	0	1	7	181
Three-Element Electric Water Heater	94	1.93	15	4	0	0	2	603
Distributed Hot Water Generation	95	1.93	14	4	0	0	3	-
Hybrid Heat Pump Water Heater and Point-of-Use Water Heating System	96	1.86	14	5	0	1	4	-
Youlet Glowing Wall Outlet	97	1.80	20	4	0	0	5	176
Color Tunable General Lighting	98	1.79	19	4	0	0	4	112
Hybrid Halogen CFL Light Bulb	99	1.74	19	4	0	0	6	289
Insulated Heat Tape for Freeze Protection with Advanced Controls	100	1.68	19	4	0	0	5	149
Infrared Driveby Building Envelope Assessments	101	1.60	20	5	0	1	7	344
Scotopic Lighting	102	1.38	16	4	0	0	7	67
Heat Home with Waste Heat from Dehumidifier	103	1.06	16	3	0	0	6	197

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