

Recommendations. Powerful Incentives.

► Cool Roof

A portion of the sun's energy inevitably finds its way into the buildings onto which it falls. In the summer, this unwanted heat requires the use of extra energy for air conditioning. Cool roof materials reflect or reject the sun's radiant energy before it penetrates the interior of the building.

One of the best ways to keep solar heat out of buildings is to use reflective roofing materials – or cool roof materials. These materials, when applied, re-radiate the heat. The roof color becomes white, which will reflect a higher percent of the solar heat. The cool roof product used must have a solar reflectance greater than .65, be an Energy Star labeled roof product based on ASTM E-903 or ASTM C-1549 testing, and applied by a licensed contractor.

Incentive: \$100 per 1,000 square feet of roof with a maximum incentive of \$5,000 per building.

► Innovation Incentive

This is a custom incentive service to meet your changing business needs. Your building project may include emerging technologies not covered in other services. Each project will be evaluated for cost effectiveness based on its demand and energy impacts. Eligible projects must: shift or reduce a minimum of 10 kW, have a minimum useful life of 15 years and a simple payback of at least two years. When qualified, you can receive an incentive from \$100 per kW up to \$250 per kW reduced or shifted from Progress Energy's peak demand periods. (Maximum incentive is \$250,000.) Data loggers will be temporarily installed at no cost to the customer to monitor before and after which will determine actual kW reduced by the energy improvements.

► Call Progress Energy Florida today for a free energy analysis. And learn more about how we'll pay you to save money.

At Progress Energy, our business is power. And we're so confident that our business can help yours, we'll give you our best advice for free – and even pay you to take advantage of it.

► With Our Help, You'll Be Able To:

- reduce waste and lower costs, improving your bottom line
- create a more comfortable working environment, for greater productivity and customer satisfaction
- offset the cost of higher-efficiency equipment with cash-back incentive programs

Build your new facility with our expertise. Ask Progress Energy for a free energy audit. And let us pay you to take our experts' advice.

Recommendations about efficient heating and cooling equipment are among the many ways Progress Energy helps business customers lower their energy use and save money. For more information about additional ways your business can save money, visit us online at progress-energy.com/save.

877.372.8477 | progress-energy.com/save



Powerful Recommendations.

Powerful Incentives.

from the Power Experts
at Progress Energy Florida



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▶ Building a New Facility?

Our Business Energy Specialists will outline a variety of ways you can increase your energy efficiency and move energy savings to your bottom line.

And to get your new facility started on the right foundation, we'll even help offset the cost of better equipment with our incentive programs.

▶ High-Efficiency HVAC Systems

If you install an HVAC system that meets our program guidelines, you'll enjoy lower energy costs and greater comfort for employees and customers day after day, month after month. You may also qualify for an incentive of up to \$150 per kW, to a maximum of \$75,000 per building, reduced from standard equipment.

High-Efficiency HVAC Incentive Requirements:

- ▶ All measures must have been recommended during a Progress Energy Business Energy Specialist consultation.
 - ▶ The customer must provide copies of invoices, an itemized inventory of equipment installed and Air Conditioning and Refrigeration Institute (ARI) certified efficiency data at Standard Rating Conditions.
 - ▶ Air-Cooled and Water-Cooled Electric Chillers: Cooling and heating load calculations must be provided by the contractor and determined by the Manual N or ASHRAE approved sizing calculation.
 - ▶ Packaged terminal heat pump cooling and heating efficiencies (at ARI Standard 310-897 Rating Conditions) must meet or exceed the minimum efficiencies listed in the PTHP tables.
 - ▶ Packaged terminal heat pumps must be sized to handle the heating load at 31 degrees Fahrenheit outdoor air temperature without the use of backup strip heat.
- Other requirements may apply.

Small Heat Pumps (< 65,000 Btu/h)				
\$150 per kW reduced from baseline efficiency				
Minimum Cooling Efficiency		Minimum Heating Efficiency		Incentive per Heat Pump
EER	SEER	HSPF	COP	
14.0	12.0	7.8	3.2	\$100
16.0	13.0	8.1	3.5	\$150

Packaged Terminal Heat Pumps (PTHPs)					
\$150 per kW reduced from baseline efficiency					
Btu/h	Baseline		Minimum		Incentive Range
	EER	COP	EER	COP	
<7,000	10.8	1	11.1	3.0	\$90 to \$96
7,001 - 8,000	10.8	1	11.1	3.0	\$105 to \$111
8,001 - 9,000	10.6	1	11.1	3.0	\$108 to \$126
9,001 - 10,000	10.4	1	11.0	3.0	\$111 to \$133
10,001 - 11,000	10.2	1	11.0	2.9	\$115 to \$148
11,001 - 12,000	10.0	1	10.8	2.9	\$121 to \$163
12,001 - 13,000	9.7	1	10.6	2.9	\$132 to \$178
13,001 - 14,000	9.5	1	10.2	2.9	\$141 to \$192
14,001 - 15,000	9.3	1	10.0	2.9	\$148 to \$207
>15,000	9.1	1	9.7	2.9	\$163 to \$222

Air Conditioners and Heat Pumps			
\$150 per kW reduced from baseline efficiency			
Equipment Type and Size Range (Btu/h)	Baseline Efficiency (EER)	Minimum Eligible Efficiency (EER)	Incentive Range
Air-Cooled AC and Heat Pumps			
65,000 - 135,000	10.3	11.5	\$98 to \$247
135,001 - 240,000	9.7	11.0	\$243 to \$444
240,001 - 760,000	9.2	10.5	\$1,061 to \$1,370
Water-Cooled Scroll or Screw Chillers			
65,000 - 135,000	11.5 a	13 a	\$96 to \$311
over 135,000	11 a	12.5 a	\$218 to \$693

*A water-cooled EER is a Standard Rating of 85° F entering water.

Air-Cooled & Water-Cooled Electric Chillers			
\$150 per kW reduced from baseline efficiency			
Equipment Type and Size Range	Baseline Efficiency	Minimum Eligible Efficiency	Incentive Range
Water-Cooled Centrifugal Chillers			
under 150 tons	0.70 kW/tons (5.0 COP)	0.65 kW/ton (5.4 COP)	\$740 to \$1,764
150-300 tons	0.63 kW/tons (5.5 COP)	0.60 kW/ton (5.9 COP)	\$666 to \$2,220
over 300 tons	0.58 kW/tons (6.1 COP)	0.56 kW/ton (6.3 COP)	\$891 to \$4,440
Water-Cooled Scroll or Screw Chillers			
under 150 tons	0.79 kW/tons (4.5 COP)	0.72 kW/ton (4.9 COP)	\$518 to \$1,554
150-300 tons	0.72 kW/tons (4.9 COP)	0.66 kW/ton (5.3 COP)	\$1,332 to \$3,552
over 300 tons	0.64 kW/tons (5.5 COP)	0.59 kW/ton (5.9 COP)	\$2,220 to \$7,104
Air-Cooled Electric Chillers			
any size	1.26 kW/ton (2.8 COP)	1.17 kW/ton (3.0 COP)	\$1,332 to \$11,100

▶ Energy Recovery Ventilation

Energy recovery ventilation (ERV) is the reclaiming of energy from heated or cooled exhaust air and transferring that energy to the fresh air coming into the building.

The benefits of an ERV system to your company are significant:

- ▶ Decreased energy use
- ▶ Reduced humidity
- ▶ Recycled cooling energy

If you install a high-efficiency ERV unit – ARI 1060 rating greater than 65 percent winter effectiveness – you can earn \$1.00 per CFM up to a maximum of \$5,000 per building. A Progress Energy Business Energy Specialist must recommend a high-efficiency ERV and be kept up to date on the construction schedule for your facility.