



*beyond brilliant*



## SunSource<sup>®</sup> Home Energy System

The simplest way to bring money-saving solar power into the home

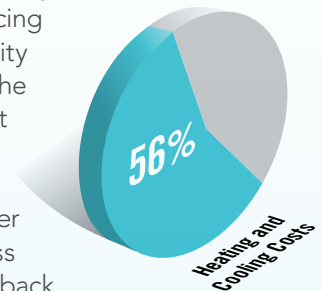


## A simple way to go solar. And save on energy costs.

With demand for electricity rising, right along with energy costs, a typical homeowner can easily spend hundreds of dollars a month on utility bills, which can be the equivalent of a house payment. The bulk of a home's energy costs, up to 56%,\* comes from heating and cooling. Fortunately, there's a bright spot.

The SunSource® Home Energy System puts you in control of your monthly bills by creating and using solar energy, reducing your need for electricity from your utility provider. Solar energy generated by the system is first used to power your heat pump or air conditioner. When your heating and cooling system is not in use, the solar energy can operate other appliances and electronics. Any excess energy that's not needed will be sent back to the utility company, possibly entitling you to a credit.

### U.S. Household Energy Consumption



Power from the sun also has **major benefits for the environment**. It reduces the need for electricity generated by power plants, which in turn leads to a reduction in greenhouse gas emissions.



*an idea that's beyond brilliant*

### More efficient than a home comfort system

As a home energy system, complete with a solar-ready heat pump or air conditioner and solar modules, SunSource is different from a typical home comfort system in that it harnesses the abundant, clean and completely free energy of the sun to reduce your home's utility operating costs. (See page 7 for savings estimates.)

### Simpler and more affordable than a home solar system

The cornerstone of the SunSource Home Energy System is a high-efficiency air conditioner or heat pump from the Dave Lennox *Signature*<sup>®</sup> Collection. These units come solar-ready, which means they can be easily integrated with solar modules in a solar energy system, if and when you want one. You can start small, with one or two modules, and add more (up to 15 total, per outdoor unit) when budget permits.



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**30%** of the cost of the solar modules, including installation, may be offset by government tax credits.\*\* You may also receive up to a **\$1500** tax credit\*\*\* for the solar-ready heat pump or air conditioner that's at the heart of the system. Consult your tax advisor for more information.

**The system may also qualify for state and local tax credits, as well as rebates and other incentives from local utility companies. Ask your local Lennox Dealer for more information.**

\*U.S. Department of Energy statistics.

\*\*The SunSource Home Energy System meets the requirements for federal tax credits listed under the U.S. Emergency Economic Stabilization Act of 2008, covering 30% of the cost of the solar modules, including installation.

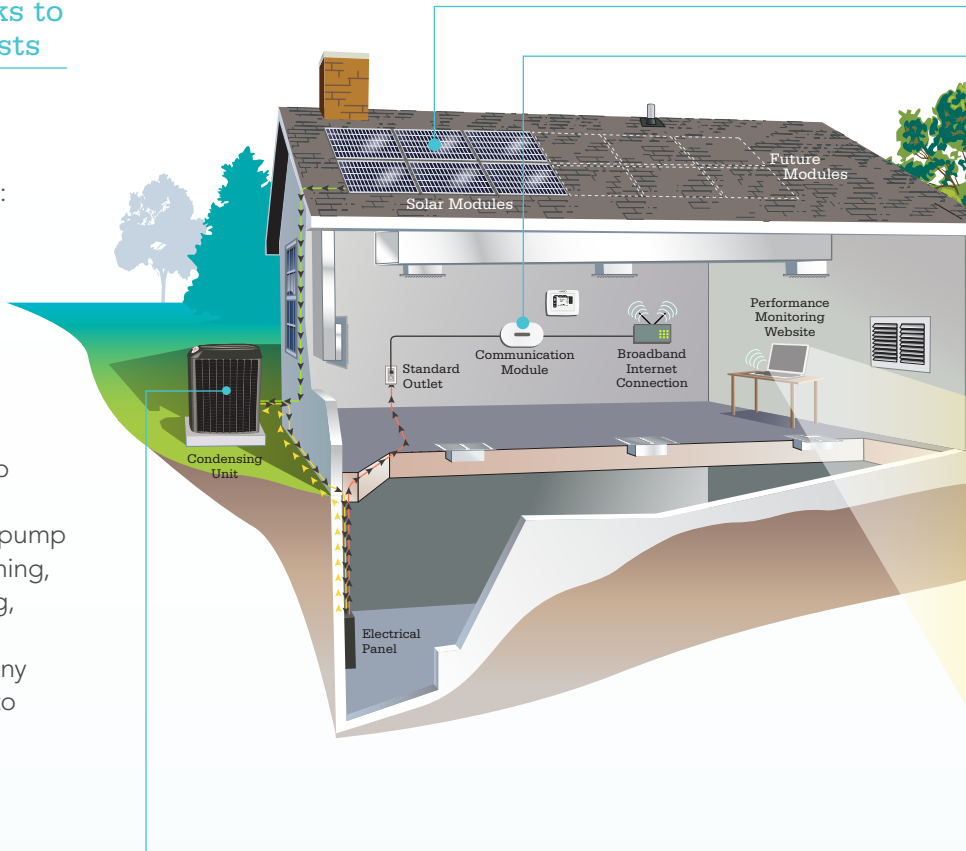
\*\*\*To learn more, review the actual IRS specifications for each credit, visit the "Tax Credits for Energy Efficiency" section at [www.energystar.gov](http://www.energystar.gov).

# Solar power for heating and cooling—and beyond.

## How the system works to reduce your utility costs

The SunSource® Home Energy System allows you to tap into the utility-saving benefits of solar. Here's how:

- One to 15 solar modules\* harness clean, sustainable energy from the sun and send it to a SunSource® Solar-Ready heat pump or air conditioner.
- Solar energy is first used to meet heating and cooling demands. When the heat pump or air conditioner isn't running, the system powers lighting, appliances and other electronics in the home. Any surplus power goes back to your utility company for a possible credit.\*\*
- A communication module allows you to see how your home energy system is working to lower your utility operating costs. It also shows the environmental benefits of using renewable energy for your home.



**SunSource Solar-Ready outdoor unit** – Offers many innovative features beyond solar technology designed to deliver optimal comfort and efficiency. Four models are available:

- XP21/XC21 – The most quiet and efficient heat pump and central air conditioner you can buy\*\*\*
  - Two-stage operation, combined with exclusive SilentComfort™ technology, allows the units to run at low speed most of the time to maximize comfort and efficiency, while reducing sound levels
  - Efficiency ratings of up to 21.00 SEER†
- XP17/XC17 – The most efficient single-stage heat pump and central air conditioner you can buy††
  - Engineered with exclusive SilentComfort™ technology
  - Efficiency ratings of up to 18.00 SEER†

# SUNSOURCE™

Home Energy System

**Communication module** – Sends performance information for each solar module to a website, where you can view system status.

**Performance-monitoring website††** – This website gives you 24/7 access to real-time data showing system status, energy production, and environmental benefits, including carbon offsets. **Monitoring service is provided free for five years.**



**Solar modules** – Unlike typical solar-panel systems, which have one large inverter for the complete array, each SunSource module has its own scaled-down microinverter that converts solar energy into usable electrical power. This has three key advantages:

- A dedicated microinverter for each module allows a higher capture of solar energy, compared to traditional single-inverter systems.‡
- You have the flexibility to start small and add more modules at a later date for greater energy savings.
- Any issue that might affect one module, like tree shading or cloud cover, doesn't impact the operation of other modules.

Beyond efficient performance, the modules offer superb durability and aesthetics:

- Modules are weather- and impact-resistant.
- Modules can be installed nearly flush on a south-facing roof.
- Modules can be easily maintained and serviced.

\*Per outdoor SunSource Solar-Ready unit.  
\*\*Check with the utility company in your area, as credits are determined and regulated on a state-by-state basis.  
\*\*\*A combination of sound ratings established per AHRI's test standard: 270; and efficiency ratings established per AHRI's test standard: ANSI/AHRI 210/240-2008.  
†The Seasonal Energy Efficiency Ratio is a cooling efficiency rating for air conditioners and heat pumps. The higher the SEER, the better the energy performance, the more you save.  
††Efficiency claim based on comparison of single-stage air conditioning products' SEER as published in AHRI (December 2009). Actual system combination efficiency may vary. Consult a Lennox Dealer or AHRI ([www.ahridirectory.org](http://www.ahridirectory.org)) for exact system efficiencies.  
‡According to tests conducted by Enphase Energy, Inc.  
††Performance-monitoring website provided by an independent third party, Enphase Energy, Inc.

# A system with possibilities beyond the immediate horizon.

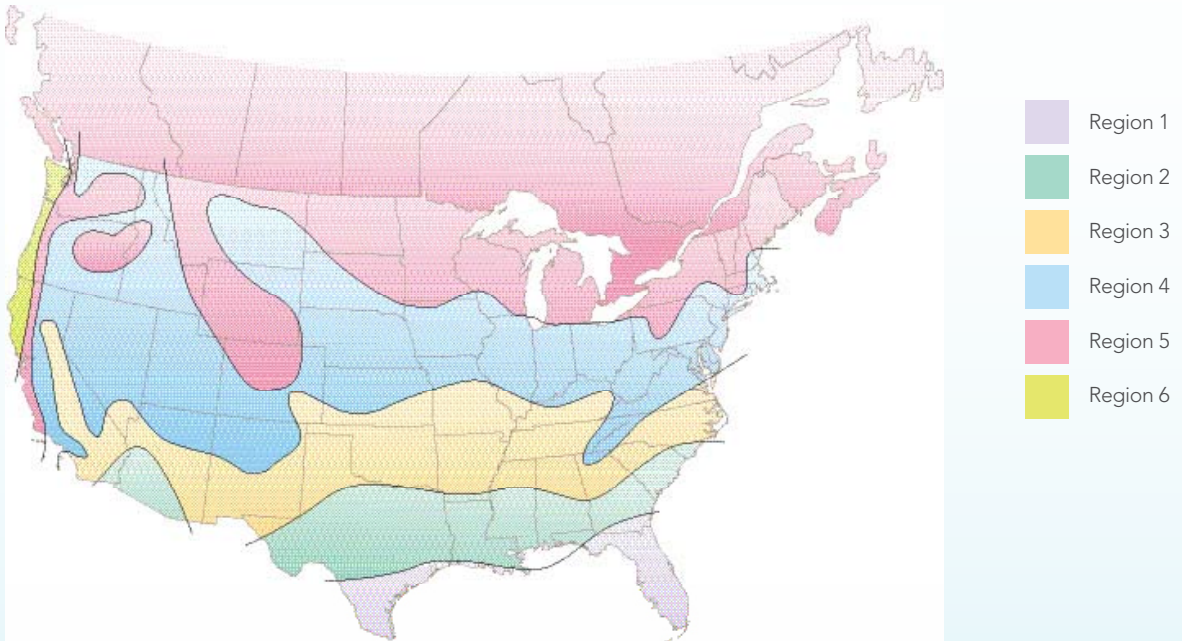
## Overall Impact of the SunSource® Home Energy System on Heating and Cooling Costs

Estimated annual operating cost savings\* of a 3-ton XC21 air conditioner (AC) or XP21 heat pump (HP) with solar modules, compared to a 10 SEER AC or 10 SEER/7.0 HSPF HP.

	with 2 Modules		with 6 Modules		with 15 Modules	
	HP	AC	HP	AC	HP	AC
<b>Region 1</b>	49%	58%	59%	68%	81%	91%
<b>Region 2</b>	47%	60%	59%	75%	85%	110%
<b>Region 3</b>	43%	63%	54%	85%	79%	135%
<b>Region 4</b>	36%	68%	45%	101%	66%	173%
<b>Region 5</b> includes Canada**	25%	84%	34%	147%	53%	289%
<b>Region 6</b>	36%	102%	49%	202%	78%	427%

Air conditioners typically only run during the summer, so they have lower annual operating costs than heat pumps, which are used year-round for heating and cooling needs. Less annual energy consumption for ACs translates to greater savings percentages.

## Climate Regions



\*Equipment cost-savings estimates are based on the U.S. Department of Energy (DOE) annual performance factor (APF) method for heat pumps (10CFR part 430). Estimates of annual solar energy production are calculated for a centrally located city in each DOE heating region, using National Renewable Energy Laboratory's (NREL) PVWatts, Version 1.

\*\*Percent savings for Canada based on 2750 heating load hours (same as US region 5). Northern regions of Canada may have even higher heating load hours.

# A brand that delivers beyond basic comfort.



Lennox has always been a leading global name in home comfort. Today, we're pushing beyond the traditional parameters of comfort by setting the pace for environmentally responsible climate control.

When you choose Lennox, you can feel good knowing you're getting the best. And, when you choose the Dave Lennox Signature® Collection, you're getting the best of the best. From the world's first riveted-steel furnace to the groundbreaking SunSource® Home Energy System, products from the Dave Lennox Signature Collection are engineered to deliver innovation and reliability beyond measure.

## Choice of solar-ready systems

All new heat pumps and air conditioners from the Dave Lennox Signature Collection are solar-ready, which means they can be easily integrated with solar modules in a complete SunSource Home Energy System.

## Peace-of-mind protection\*

In addition to world-class quality from a name you can trust, you can take comfort knowing the SunSource Home Energy System is backed by solid warranties:

- XP21/XC21 and XP17/XC17 solar-ready heat pumps and air conditioners include a 10-year limited warranty on the compressor and covered components.
- Solar modules include a 5-year limited warranty against defects from faulty workmanship or damage to the surface. The modules have a 12-year limited performance guarantee that covers a power output of less than 90%; and a 25-year limited performance guarantee applies to a power output of less than 80%.



## Dealers you can count on

You can trust Lennox Dealers to design the right system for your home, install it properly, and keep it running perfectly for many years to come. Because Lennox has more than 6,000 dealers throughout North America, you can rest assured there's a dealer near you.



Lennox is proud to be named a four-time winner of the ENERGY STAR® Manufacturing Partner of the Year award by the U.S. Environmental Protection Agency and the Department of Energy. We are the first and only manufacturer in the heating and cooling industry to receive this prestigious award, which reflects our ongoing leadership in environmentally responsible climate control.

\*Warranties apply when modules are installed under normal residential application, use and service conditions. Some limitations apply. See your local Lennox Dealer for full details.



# A system beyond compare.

Heating and cooling systems from the **Dave Lennox Signature® Collection** have always been a cut above when it comes to innovation. The SunSource® Home Energy System is light years ahead of competitors' offerings, especially when combined with the Lennox® products below:



### SLP98V

The most efficient and the quietest furnace you can buy\*



### PureAir™ Air Purification System

Cleans the air inside your home better than any other single system you can buy



### Healthy Climate® Solutions

Wide array of options beyond air purification, including industry-leading dehumidification, all designed to improve air quality without producing ozone



### icomfort Touch™ Thermostat\*\*

Sleek, full-color thermostat features intuitive programming for precise temperature and humidity control

## Matching your system

Replacing only one part of a system may result in a mismatch that compromises energy efficiency. For best performance, it's a good idea to replace the entire system at once.

## Optimizing your system

The SunSource Home Energy System offers ultimate comfort and efficiency when it's integrated with the following:

**icomfort™ Technology** – Allows SunSource-enabled cooling systems to exchange information with other home comfort system components and make adjustments as needed, so that you feel comfortable without thinking about it.

**Harmony III™ Zoning System** – Divides your home into up to four separate, customizable comfort zones. Can be integrated with the icomfort system.

**Home Generator** – Offers dependable protection during unexpected power outages. Available in a variety of sizes to meet the needs of every home.



*Innovation never felt so good.™*

For a complete list of the registered and common law trademarks owned by Lennox Industries Inc., please visit [www.lennox.com](http://www.lennox.com).

\*A combination of sound ratings established per ARI's test standard: 270; and efficiency ratings established per ARI's test standard: ANSI/ARI 210/240-2008.

\*\*Must be installed with an icomfort™-enabled outdoor unit.