

ENERGY STAR®?

and global warming associated with energy production.

In addition to consumer electronics, more than 30 product categories, including lighting, appliances, home office equipment, and heating and cooling equipment, feature the ENERGY STAR label. And the list of products continues to grow, making it easier to save money and make a difference at the same time.

D CONSUMER ELECTRONICS

speakers, rack systems, stereo amplifiers, stereo receivers, table radios, and tuners.

SET-TOP BOXES

Set-top boxes are commonly used to select cable or satellite TV stations, access the Internet, and play video games. On average, ENERGY STAR labeled set-top boxes consume 20 percent less electricity than conventional set-top boxes while delivering the same quality and features.

TELEPHONE PRODUCTS

Labeled telephone products include cordless phones, answering machines, and combination units. Nearly 90 percent of all energy used to power these devices is expended during standby—while not in use. ENERGY STAR labeled telephones will use about one-third of the energy required by standard models.



For more information, visit www.energystar.gov, or call 1-888-STAR-YES (1-888-782-7937).



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consumer electronics



US Environmental Protection Agency and US Department of Energy
EPA 430F-01-030 October 2001

WHAT IS ENERGY STAR?

ENERGY STAR is a label that identifies energy-efficient products, such as consumer electronics, which meet guidelines set by the US Environmental Protection Agency (EPA) and the US Department of Energy (DOE).

ENERGY STAR labeled products help customers save energy and money without sacrificing performance—one solution to energy supply and cost concerns. ENERGY STAR also helps protect the environment by reducing air pollution.

ENERGY STAR LABELED CONSUMER ELECTRONICS

ENERGY STAR labeled consumer electronics consume much of their energy when they are turned off or in standby mode versus when they are on or in “active mode.” So ENERGY STAR labeled consumer electronics save energy whether you are using them or not.

TVs

ENERGY STAR labeled TVs require three watts or less of power when switched off, as compared to conventional TVs which use up to 12 watts.

VCRs AND DVDs

ENERGY STAR labeled VCRs and DVDs require less power when switched off, as compared with conventional models. TV/VCR combination units consume an average of 25 percent less energy when switched off than traditional models.

HOME AUDIO

ENERGY STAR labeled home audio products include a wide range of audio products, including cassette decks, CD players, changers, clock radios, equalizers, laser disc players, mini-midi-systems, minidisc players, powered

To locate a store near you that carries ENERGY STAR labeled consumer electronics, use our store locator at www.energystar.gov/consumer. You can even calculate your savings by using the simple savings calculator. Just select “find products,” click on “consumer electronics,” and choose the item you are interested in.



SAVE ENERGY, SAVE MONEY

ENERGY STAR labeled consumer electronics are more energy efficient than conventional models. Many consumer electronics products continue to consume energy—even when switched off—in order to power features such as clock displays or remote control functions. Most of the energy used in this “standby/low power” mode is needlessly consumed in conventional designs. But ENERGY STAR qualified TVs, VCRs, home audio and DVD products, and set-top boxes in the “off” position consume up to 50 percent less energy than conventional models.

By consuming less energy, ENERGY STAR qualified products substantially cut your energy costs. For example, the energy used to power small household appliances and consumer electronics is one of the fastest-growing household energy costs in the United States, currently responsible for about 30 percent of residential electricity use. By 2015, this category is projected to be responsible for almost 40 percent of all household electricity use. Choosing ENERGY STAR labeled products can help.

HELP PROTECT THE ENVIRONMENT

Since conventional products require more energy—an estimated 3.3 billion kWh of energy per year—they create more air pollution. If consumers bought only ENERGY STAR labeled consumer electronics products through 2005, our nation would save \$1.3 billion each year in energy bills while cleaning the air.

To date, American consumers have purchased more than 630 million ENERGY STAR labeled products. Last year alone, ENERGY STAR helped us save enough energy at peak time to power ten million homes and reduce greenhouse gas emissions equivalent to those of ten million cars.

CHANGE TO ENERGY STAR LABELED CONSUMER ELECTRONICS



Consider these benefits when purchasing consumer electronics:

High Quality—ENERGY STAR labeled consumer electronics save energy and money without sacrificing performance, features, or reliability. And they typically cost about the same as conventional models.

Major Manufacturers—Most major consumer electronics manufacturers are now partnering with ENERGY STAR. Visit www.energystar.gov for a list of our partners and more than 1,900 qualifying consumer electronics products.

Energy Savings—In the average home, 75 percent of all electricity used to power consumer electronics is consumed after the products are turned off. And in the United States alone, the amount of energy consumed by this equipment when switched off equals the annual output of 12 power plants.

Money Savings—Americans spend \$1 billion each year to power their TVs and VCRs when they are switched off.

Less Pollution—If consumers bought only ENERGY STAR labeled consumer electronics products through 2005, our nation would remove the pollution caused by 1.8 million cars that year and save \$1.3 billion annually.



HOME THEATER SYSTEMS

Looking to upgrade or create a new home theater system? Why not choose ENERGY STAR labeled consumer electronics? If you purchased all of the following ENERGY STAR labeled products for your home theater system, here is an estimate of what you would save:

Assumption	Energy Savings (kWh) in Millions	Electric Bill Savings (2001\$) in Millions	Total lbs. CO ₂ Reductions in Millions
Consumers replace their TVs with ENERGY STAR labeled models. ^(a)	6,877	\$575	11
Consumers replace their VCRs and DVDs with ENERGY STAR labeled models. ^(b)	2,503	\$209	4
Consumers replace their mini-systems with an ENERGY STAR labeled model. ^(c)	3,641	\$304	6
Consumers replace their set-top boxes with an ENERGY STAR labeled model. ^(d)	1,547	\$129	2



(a) There are 200.7 million TVs in US households, Rosen K and AK Meir LBL 42393, March 1999.
(b) Stock of VCRs – 120,000,000 from Sanchez et al., 1998: Miscellaneous Energy Use in the Residential Sector, page 6 of Summary of outputs for study.
Stock of DVDs – 4,071,938 from Portrait of the US Appliance Industry, 23rd Annual.
(c) Stock of mini-systems – 53,000,000 from Sanchez et al., 1998: Miscellaneous Energy Use in the Residential Sector, page 1 of Summary of outputs for study.
(d) Stock of satellite receivers (assumes lifetime = 9 years) – 20,049,000 Appliance Magazine Statistical Review 48th Annual Report.
Stock of analog cable boxes – 44,000,000 from Sanchez et al., 1998: Miscellaneous Energy Use in the Residential Sector, page 1 of Summary of outputs for study.

