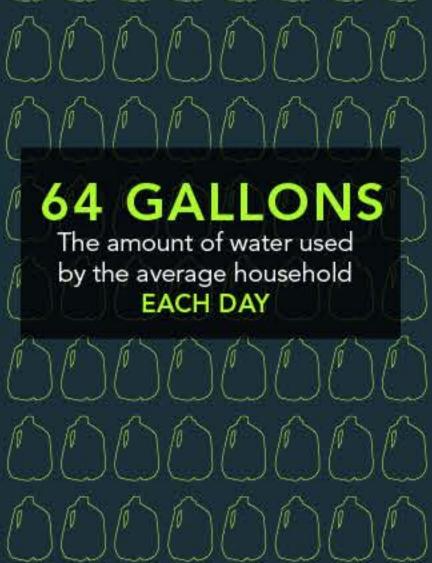
# Everything you need to know about ER HEATERS



### The amount of money the average household spends on

\$400-600

water heating EACH YEAR Water heating is the

expense in your home, accounting

# for 14-18% of your utility bills

**2ND LARGEST** 

10-15 years

WATER HEATERS



PRO

CON

Lower purchase cost

Standby heat loss -

heated to the set

temperature.

energy can be wasted to

keep the water in the tank



LIFE EXPECTANCY

Provides a constant supply

of hot water, and is 8-34

efficient than a storage water heater. Depending

percent more energy

on the amount of hot

water your home uses

daily, you could save at least \$100 a year.

multiple uses of hot water

and some times the energy

can stretch a tankless

cost of purchase and

water heater to its limit,

savings don't pay for the



PRO

2-3 times more energy

efficient than a storage

water heater and lower operating costs. Energy Star

heat pump water heaters

Performance is dependent

on the installation location,

heaters exhaust cold air --

conditioning appliances

during heating months.

Switching the heat pump

resistance mode will stop

cold air exhaust but also

reduce the appliance's

water heater to regular

SOLUTION

efficiency.

increasing the load on space

and heat pump water

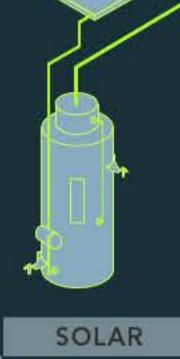
can save homeowners almost \$300 a year on their

electric bills

CON

\$\$

20+ years



LIFE EXPECTANCY

50 percent more efficient

than gas or electric water

Solar water heaters may

require a backup system

of high demand.

for cloudy days and times

Make sure you buy a solar

water heating system that

includes a storage water

heater as part of the

system package.

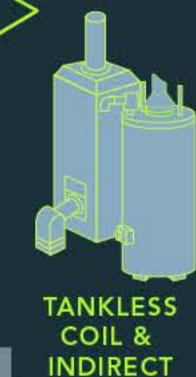
COST

PRO

CON

\$\$

10-15 years



COST \$\$\$ LIFE EXPECTANCY About 20 years 10-11 years PRO

# maintenance costs

CON

Inefficient choice for many

homes, especially for those

in warmer climates.

# Lower installation and

# SOLUTION

SOLUTION

About 27 million households

in the U.S. have a water

heater that's more than

10 YEARS OLD.

Look for an insulated tank

to reduce heat losses and

lower operating costs.

### CON Limited flow rate of hot water means simultaneous,

PRO

SOLUTION Install two or more tankless water heaters connected in parallel or separate ones for appliances that use a lot of hot water.

## installation.



DID YOU

KNOW?

Don't get caught in hot water! This decision tree will help you determine what type of

An average water heater lasts

about 10-15 years, and when it

fails, it can leave you in a mess.

DO YOUR RESEARCH EARLY

to find one that best

fits your needs.

# water heater is best for you. FUEL TYPE

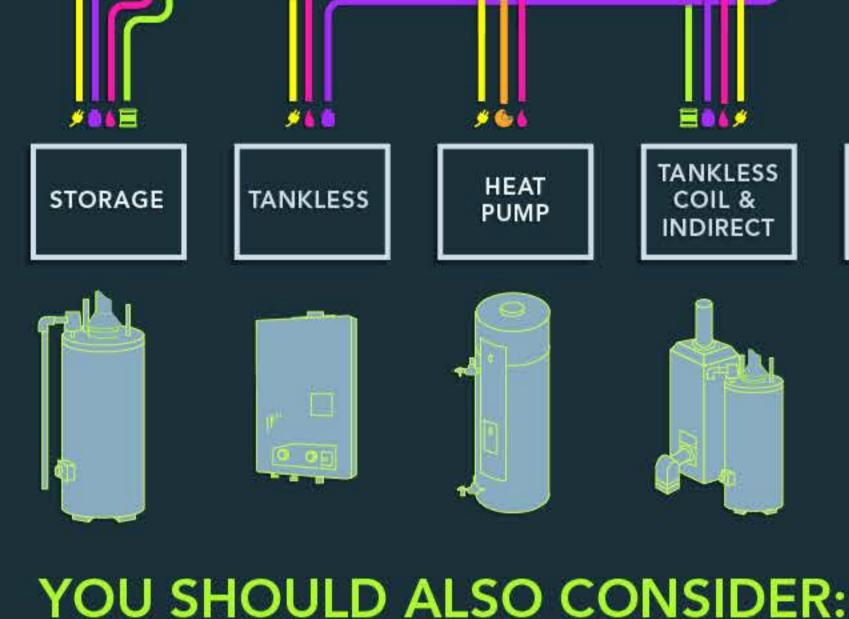
## It is important to compare fuel costs if you have more than one option available. You may find that you will save more money in the long run if you use a different fuel source.

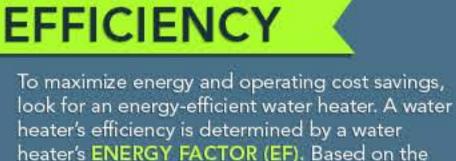
OIL

**TANKLESS** 

FUEL GEOTHERMAL FUEL **ELECTRICITY** 

SOLAR PROPANE ENERGY





amount of hot water produced per unit of fuel

How efficiently the heat from the fuel is

The percentage of the heat loss per hour from

consumed, an energy factor includes:

RECOVERY EFFICIENCY

transferred to the water.

STANDBY LOSSES

the stored water compared to the water's heat. CYCLING LOSSES through a tank or pipes.

# NATURAL **ENERGY**



COIL & INDIRECT

more efficient water heating system.

To ensure you will have enough hot

TAX CREDITS

costs, of a solar water heater

by taking advantage of the

federal tax credit that is good

until December 31, 2016.

heater must have an energy factor

of at least 0.82 and be installed by

December 31, 2013.

water when you want to use it,



SOLAR

### calculate your household's peak-hour hot water demand and use that to determine your water heater size. The loss of heat as water circulates

## MAINTENANCE Periodic maintenance can extend the life of your water heater and minimize efficiency loss.

WATER HEATER

pressure valve every six months.

If you have a storage water heater, be

sure to FLUSH A QUART OF WATER

from the tank every three months and

CHECK THE TEMPERATURE and

Regular maintenance on simple solar water heater systems can be as infrequent as every 3-5 years and should be done by a SOLAR CONTRACTOR.

# & REBATES

COST

SIZE

### SAVE UP TO \$300 on gas, oil & propane storage and tankless water heaters. In order to qualify for the federal tax credit, the water

**REBATES** and tax credits for energyefficient water heaters

TIPS FOR REDUCING YOUR WATER HEATING BILLS

# have soft or hard water.

# **USE LESS** hot water.



Low-flow fixtures

\$10-20 a piece

water savings of

25-60 PERCENT.

cost about

and achieve

SHOWERHEADS.



Buy a more

efficient

Purchase **ENERGY STAR** APPLIANCES,

Wash your clothes in COLD

## Set water heater thermostat to

120

DEGREES F.

EHERGY.GOV

FIX LEAKS:

A leak of one

drip per second

can cost

\$1 a month.

Follow the manufacturer's recommendations for ways to

INSULATE YOUR WATER **HEATER** tank and pipes.

## To extend the life of storage water heaters, REPLACE ANODE RODS -replacement frequency depends on the water heater and whether you

## SAVE 30 PERCENT of the cost, including installation and labor

Interested in installing a heat pump water heater? You could qualify for a \$300 FEDERAL TAX CREDIT. Be sure TO CHECK FOR LOCAL

### Turn down your water heater's THERMOSTAT.

WATER.

SOURCES: Energy Saver (www.energy.gov/energysaver) and Energy Star (www.energystar.gov)

such as

dishwashers and

clothes washers.