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# Guide to Choosing the Right Hot Water System

# 6 STEP GUIDE TO MAKING THE RIGHT CHOICE

1

## COMPARE RUNNING COSTS

### COMPARE COSTS

Assess the different running costs associated with each system to make an informed decision based on your family or business budget.



2

## COMPARE CO<sub>2</sub> EMISSIONS

### COMPARE CO<sub>2</sub> EMISSIONS

Have a look at the difference between greenhouse gas emissions produced by each system. By installing an environmentally friendly hot water system you can do your bit for the environment by preventing tonnes of CO<sub>2</sub> emissions from entering our atmosphere each year.



3

## PROS & CONS OF EACH SYSTEM

### ASSESS THE PROS & CONS

Familiarise yourself with how each system works. Assess the pros and cons and decide what type of system your family or business requires.



## SIZE DOES MATTER

Calculate your hot water needs by adding up the number of showers, baths, and loads of washing you do each day. Choose a system suitable for light, moderate or heavy use for optimal efficiency.

4

## SIZE DOES MATTER



## CONTACT US

Call Bell Plumbing & Gas on 0410 662 469 to book a time for our experienced plumber and gas fitter to install your new hot water system.

5

## CONTACT BELL PLUMBING & GAS



## ENJOY PIPING HOT WATER

Notice the cost and environmental benefits your newly installed hot water system provides. Get back to enjoying piping hot showers and loving life.

6

## ENJOY PIPING HOT WATER



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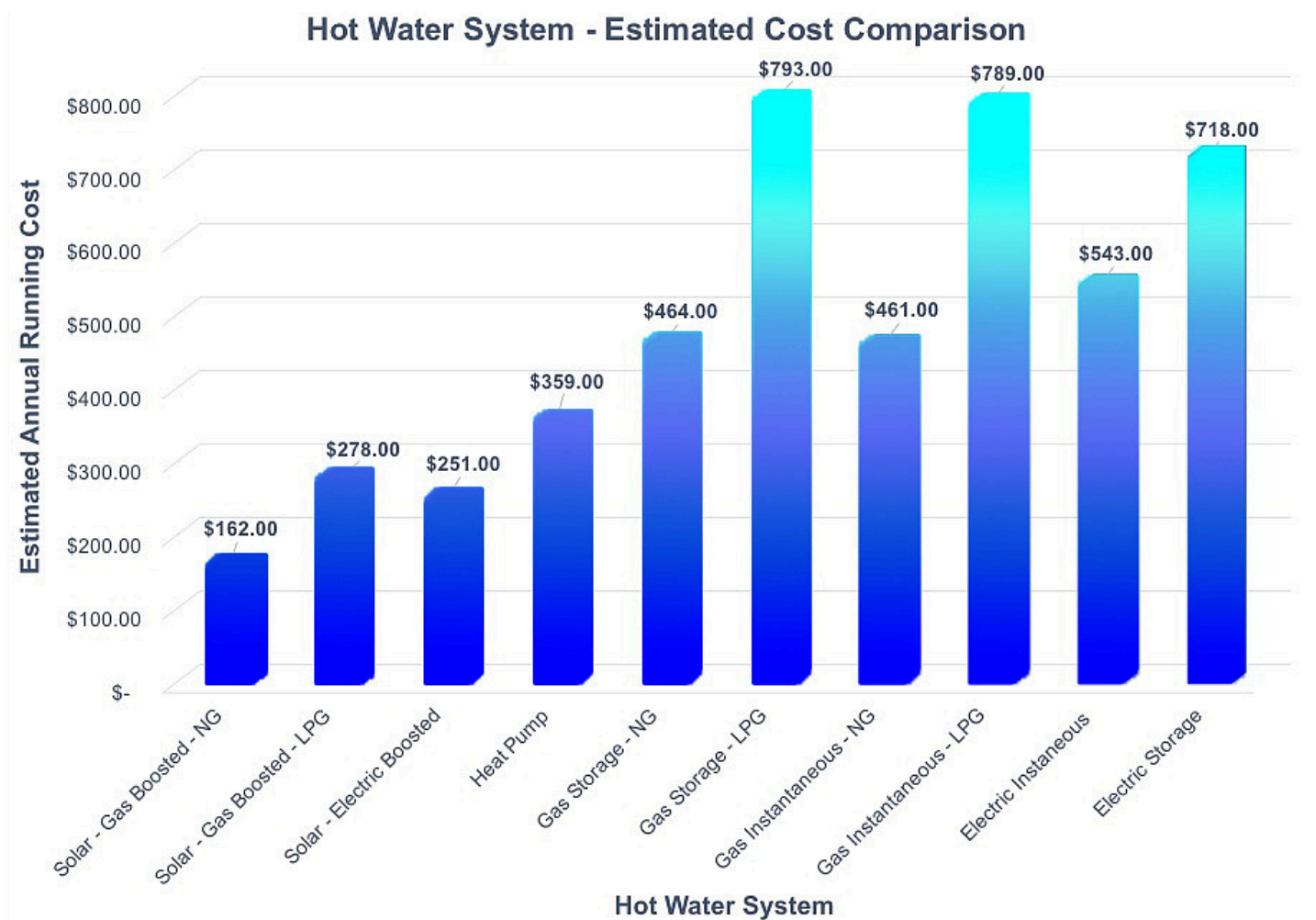
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# ESTIMATED ANNUAL ENERGY COSTS

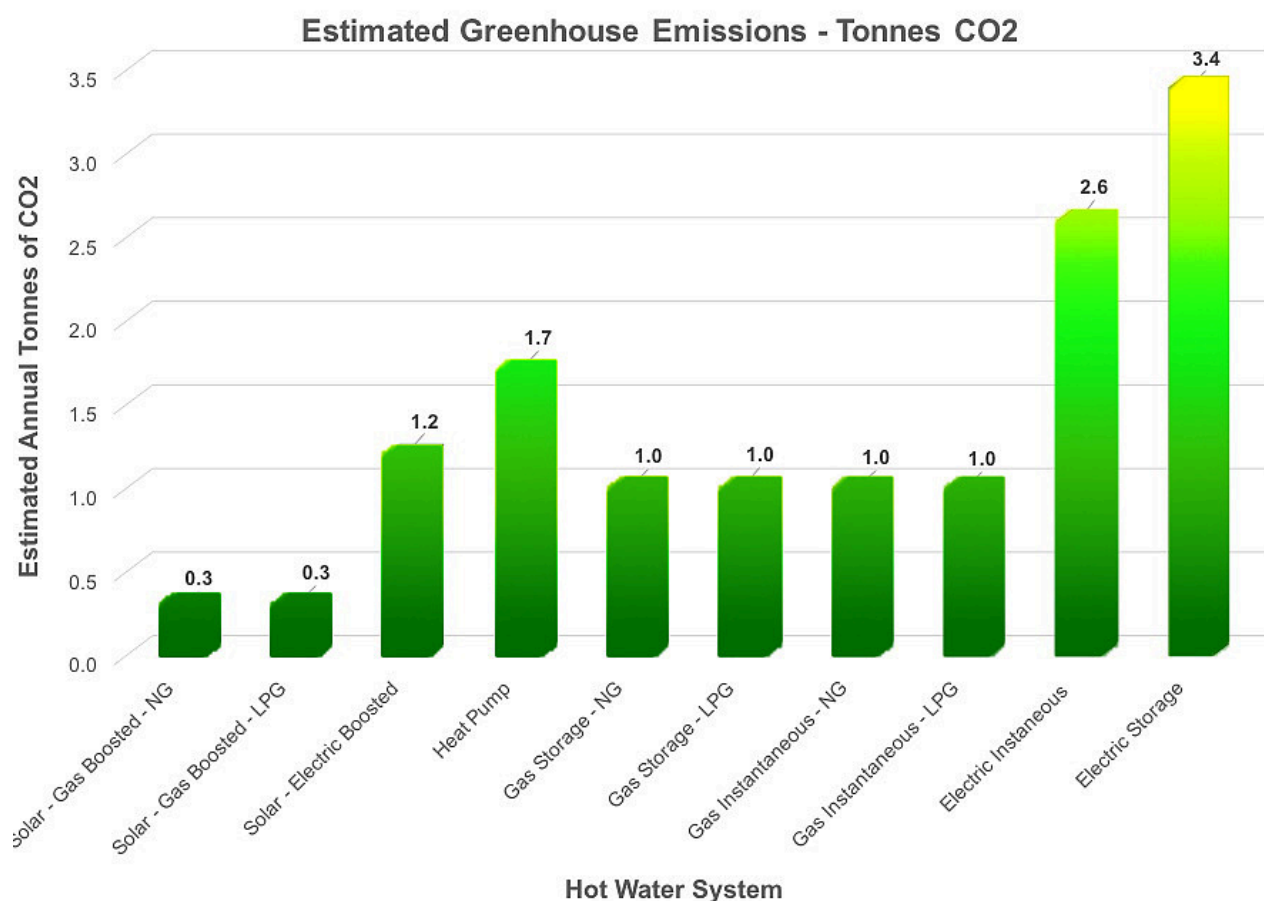


This graph compares the estimated annual running costs of the hot water systems available for purchase in Western Australia.

At Bell Plumbing & Gas we understand that water usage varies between homes depending on the size of your family. We have calculated the above usage based on a family of four, having two 8 minute showers per day, using a standard flow shower head and warm water when washing your clothes. These figures will increase or decrease depending on your circumstances, for instance, running a bath each night will increase running costs considerably.



# ESTIMATED ANNUAL GREENHOUSE GAS EMISSIONS (TONNES Co2)



This graph compares the estimated annual greenhouse gas emissions produced by the hot water systems available for purchase in Western Australia.

As Waterwise Specialists, we care about our environment and promote use of only the most energy efficient products. Choosing to conserve energy and increase your efficiency not only helps the environment but also saves you money. Over the past 6 years, Western Australia has seen steep increases in gas and electricity prices and it is likely that prices will continue to increase into the future. **In fact, since 2009, the cost of electricity in Western Australia has increased by a massive 64%!**

Now has never been a more appropriate time to carefully consider the environmental impact and energy consumption of the products we use. By simply making an informed decision about the type of hot water system you install, you have the opportunity to do your bit for the environment and save tonnes of Co2 emissions from entering our atmosphere each year.

Give Bell Plumbing & Gas a call on 0410 662 469 for advice on environmentally friendly heating options



# What's available?

## ELECTRIC STORAGE

## HEAT PUMP

## GAS STORAGE

### Electric Storage

Electric storage systems heat water with a heating element and store it in an insulated tank for constant access to hot water during the day. Storage systems lose some heat through the walls of the tank, meaning they still consume energy even if you don't use any hot water.

#### Things to consider:

- ★ Are you using renewable or grid electricity?
- ★ Electric storage hot water systems have the highest running costs and produce the most Co2 emissions.
- ★ The storage cylinders can take up a fair amount of space in your home.
- ★ You may save on installation costs when replacing a like for like system.
- ★ Upfront costs are low but running costs are high and add up over the years.

### Heat Pump

A heat pump uses heat from the surrounding air to heat water in a storage tank. Heat pumps extract heat from the air using a refrigerant gas that is then pressurised in a compressor. The heat is then transferred to the water in the storage tank

#### Things to consider:

- ★ Heat Pumps have a smaller carbon footprint than electric storage systems.
- ★ Relatively easy to install if changing over from an electric storage system.
- ★ Heat Pumps are suited to warmer climates making them perfect for sunny Western Australia.
- ★ They rank third when it comes to cheap running costs.
- ★ Heat Pumps need adequate airflow.
- ★ They can be a little noisy when running.

### Gas Storage

Gas systems burn either natural gas or LPG. Water is heated using a gas burner and a pilot flame burns continuously and lights the main burner when it's needed.

#### Things to consider:

- ★ Cheaper to run than electric storage hot water systems.
- ★ 5 star energy efficient models.
- ★ If your home is not connected to natural gas you can use a LPG bottle.
- ★ The storage cylinders can take up a bit of space in and around your home.
- ★ Less energy efficient than solar systems

# What's available?

## GAS INSTANTANEOUS

## GAS BOOSTED SOLAR

## ELECTRIC BOOSTED SOLAR

### Gas Instantaneous

Gas instantaneous systems do not have storage tanks. The water is heated by a gas burner as it flows through a coiled pipe called a heat exchanger. The gas burner starts when a hot water tap is turned on.

#### Things to Consider:

- ★ Mounted on wall so take up less space than storage systems.
- ★ Produce less Co2 emissions than storage systems.
- ★ You will never run out of hot water, with water being heated on demand.
- ★ Controllers installed inside your home to enable adjustment to temperature.
- ★ Gas lines may need to be upgraded if swapping over from a storage system.

### Solar Power

Solar hot water systems use solar collectors (flat panels or evacuated tubes) which absorb energy from the sun to heat water.

The heated water is then stored in an insulated tank for when you need it. On very overcast or rainy days the electric or gas booster will come on as the temperature of water in the storage tank falls below the thermostat setting. The booster will then turn off automatically once the water heats up.

A manual booster switch can be installed to provide more control over the system and maximise energy efficiency.

### Things to consider - Gas Boosted Solar:

- ★ By far the cheapest to run and most environmentally friendly system on the market.
- ★ Perfect for WA's sunny climate and abundant natural gas supply.
- ★ Gas boost provides additional heating on rainy days.
- ★ North facing roof space optimal for this system.
- ★ Higher upfront costs than other options.

### Things to consider - Electric Boosted Solar:

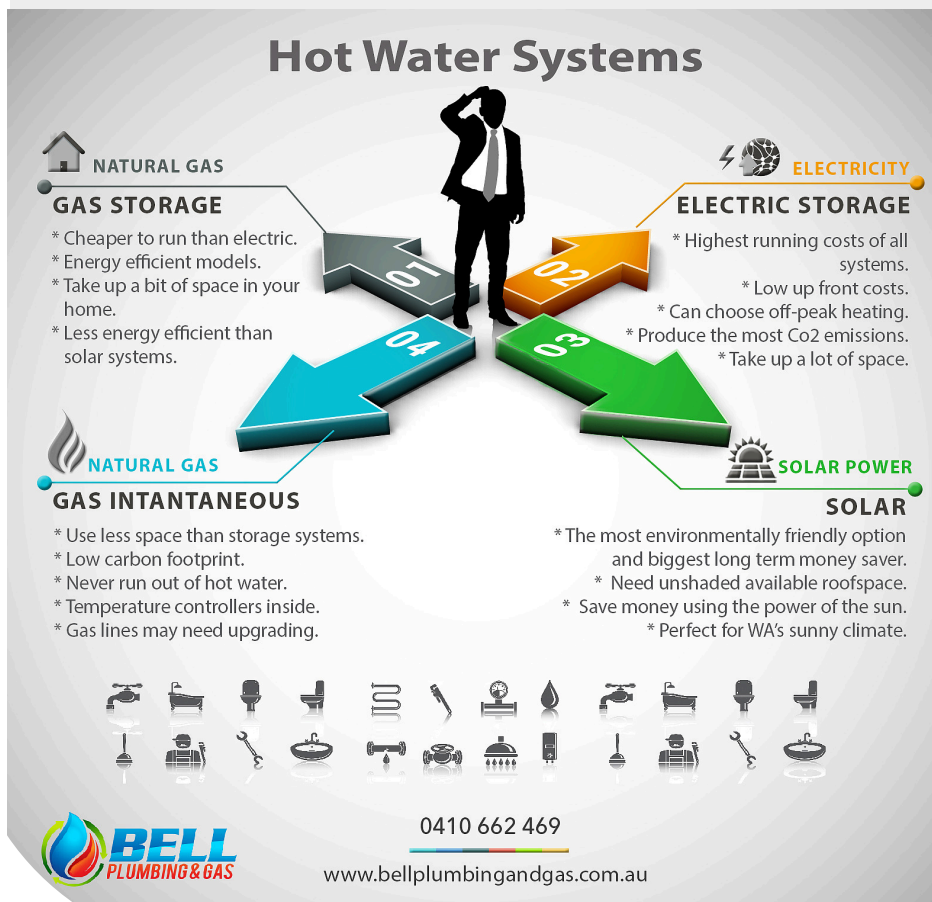
- ★ Perfect enviro-friendly option for Western Australia's sunny climate.
- ★ You will need roof space available to install panels.
- ★ Electric boost to provide that extra heating on rainy days.
- ★ High upfront costs on unit and installation but far cheaper to run than electric storage.

# DOES SIZE MATTER?

Choosing the right size water heater will depend on the number of people using the system and for how long. A good way to determine how big a system you need is to add up the number of showers, baths, and loads of washing you do each day. If your daily total is 7 or more, then you will need choose a system suited for heavy use for between four to six people.

If your daily total is between 4 and 6, then you should choose a system rated suitable for moderate use for between three to four people. Finally if your daily total is 3 or less, then you should select a system suited for light use.

The right sized water heater will not only meet all your hot water needs, but will also operate efficiently. If you choose a system that is too small you will continually run out of hot water. Too big and you will throw money down the drain paying for excess energy costs.



If you are really unsure about what size system your family needs, don't worry. Just call Bell Plumbing & Gas on 0410 662 469 and we will be available 24 hours a day, 7 days a week, 365 days a year to help you make the right choice.

We will discuss all the options available to you, including brands, capacity, price range and energy efficiency rating, providing advice and assistance at every step of the decision making process.

When your new system has been installed, we will also remove your old unit at no extra cost!

## Get in touch:

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## 01 Plumbing Maintenance

- Leaking Taps & Toilets
- Burst Pipes
- Blocked Drains
- Sewer Connections
- Gas Cooker and Hob Installation
- Gas Bayonet Installation
- Dishwasher Connection
- Water Supply to Ice-Maker Fridge

## 02 Backflow Prevention / RPZ

- Backflow Prevention / RPZ Installation
- Backflow / RPZ Testing
- Annual Testing Reminder Service

## 03 Hot Water Systems

- Gas Storage
- Gas Continuous Flow
- Electric Storage
- Solar / Heat Pump
- Emergency Same Day Hot Water
- Valve Replacement

## 04 Water Leak Detection

- Non-invasive
- Acoustic Leak Detection
- Pressure Testing
- Thermal Imaging

## 05 WaterWise Plumbing

- Greywater Re-use & Design
- Rainwater Tanks
- Water Efficiency
- Wastewater Treatment Units

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## WHY CHOOSE BELL PLUMBING & GAS?

Bell Plumbing & Gas are dedicated to providing prompt, reliable and professional service. We guarantee all our work will be completed to Australian Standards, ensuring that every job undertaken has the highest quality of workmanship.

Customer feedback allows us to monitor and improve our performance and the level of service we provide. We therefore provide Customer Satisfaction Surveys to clients after each and every job to monitor our standard of work and professionalism. All feedback received is taken into account and used for continuous development purposes.

- ✓ 2016 WaterWise Plumbing Business of the Year
- ✓ 24/7 Emergency Service
- ✓ No Call Out Fees
- ✓ Licensed Plumber and Gas Fitter
- ✓ Backflow Prevention Accredited
- ✓ Master Plumber & Gasfitters Member
- ✓ Registered Waterwise Plumber
- ✓ Public Indemnity Insurance \$20,000,000
- ✓ Police Clearance Certificate
- ✓ Affordable Pricing
- ✓ Prompt, Reliable and Professional Service

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