

Hybrid Hydronic Solutions

Adding a heat pump to your existing hydronic boiler is the first step to electrifying your home heating without any compromise on comfort



Hybrid install, Magis 30kW & Victrix Pro 2. Mornington Peninsula, VIC

Add a hydronic heat pump to any of the below boiler brands:

BAXI

IMMERGAS

ideal
HEATING

sime

BOSCH
Hot Water & Heating

WHAT IS A HYBRID HYDRONIC HEAT PUMP SYSTEM? AND HOW DOES IT WORK?

A hybrid heat pump system combines the advantages of two proven technologies to operate your hydronic heating system in the most efficient way.

A hybrid system is the integration of an electric air source hydronic heat pump with new or pre-existing boiler (Natural or LP gas). This combination of best-in-class products is simply managed by the inbuilt controls of the hydronic heat pump ensuring seamless efficient integration.

HYBRID PERFORMANCE IN COLD WEATHER

The recommended working strategy is to prioritise the use of the heat pump over the boiler whenever possible.

However, the existing boiler in the hybrid system performs better under much colder weather conditions therefore supplying the correct amount of heat for these brief periods during the day or night meaning no compromise on performance, whatever the weather.

DID YOU KNOW?

A hybrid system minimises your outdoor material footprint by receiving only one heat pump, which also reduces up front costs – making it a smart, cost effective choice for larger homes.

INTEGRATED CONTROL

The heat pumps smart controls select the most efficient heating mode (gas or electric) by sensing outdoor weather temperatures. Which combines the reliable heat and speed of gas with the efficiency of an electric hydronic heat pump.

Providing you a greener more environmentally friendly and cost effective home.

WORKS WITH EXISTING SYSTEMS

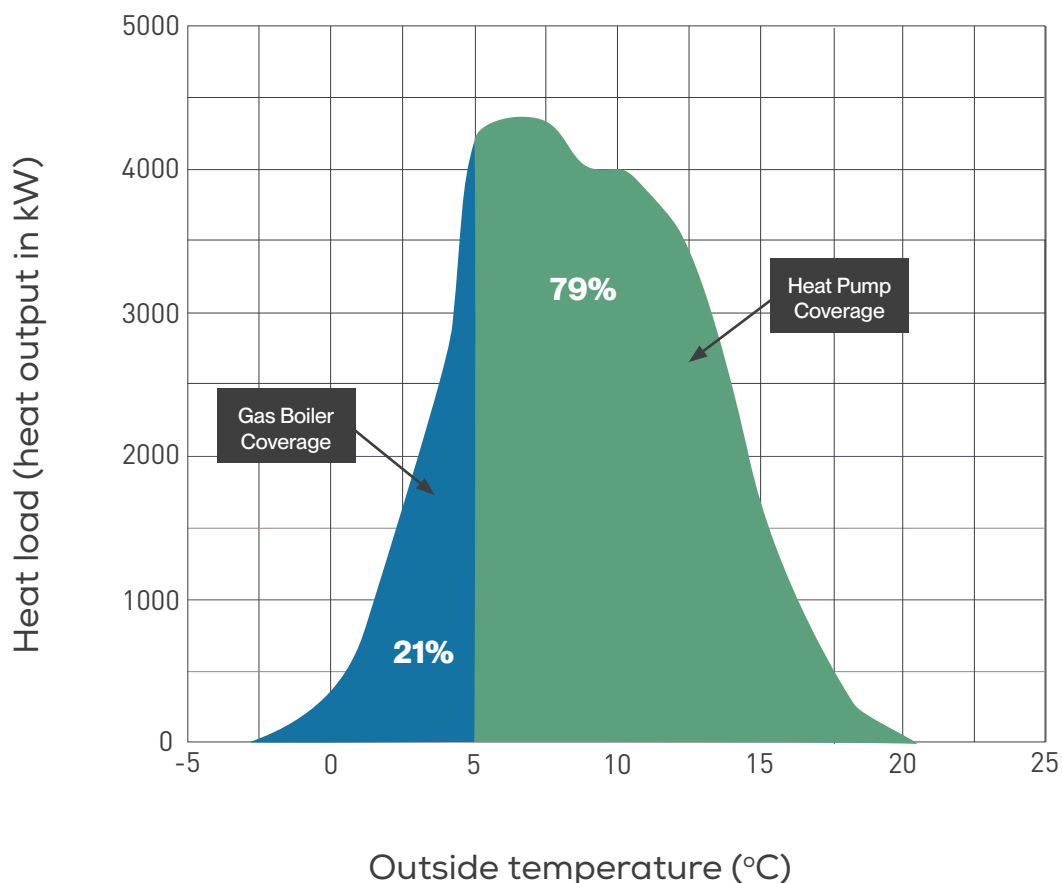
A hybrid heating system enables the continued use of your existing radiator panels – originally sized for gas boiler conditions – as well as any underfloor heating system, eliminating the cost and hassle of upsizing radiators or trench heaters in your home.

DID YOU KNOW?

By adding a heat pump to your system, you could now look at hydronic cooling options.

HYBRID CALCULATION

Assuming the current boiler in place is a high-efficiency condensing model, the heat pump can be appropriately sized at a minimum of 50% of the property's heat demand, effectively fulfilling up to 80% of the residence's heating requirements throughout the entire year.



Building heat load 20kW

Swap over temperature 5°C

Outside minimum temperature -2°C

Outside maximum temperature 20°C

Electricity tariff 26c

Gas tariff 4c

	USAGE (TOTAL) 49,416 kWh/y (100%) \$2,214.00
	HEAT PUMP 6,918 kWh/y (14%) \$1,799.00
	GAS 10,377kWh/y (21%) \$415.00
	RECLAIMED 32,120 kWh/y (65%) \$0.00 (Due to Heat Pump CoP)

ADAPTABILITY FOR FUTURE UPGRADES

Homeowners can use hybrid systems as a transitional solution, giving them time to either upgrade their home's insulation, home's power supply and system if needed.

They can then choose to transition to a full-electric heat pump system or stay with the low-carbon or zero-carbon heating hybrid solution.

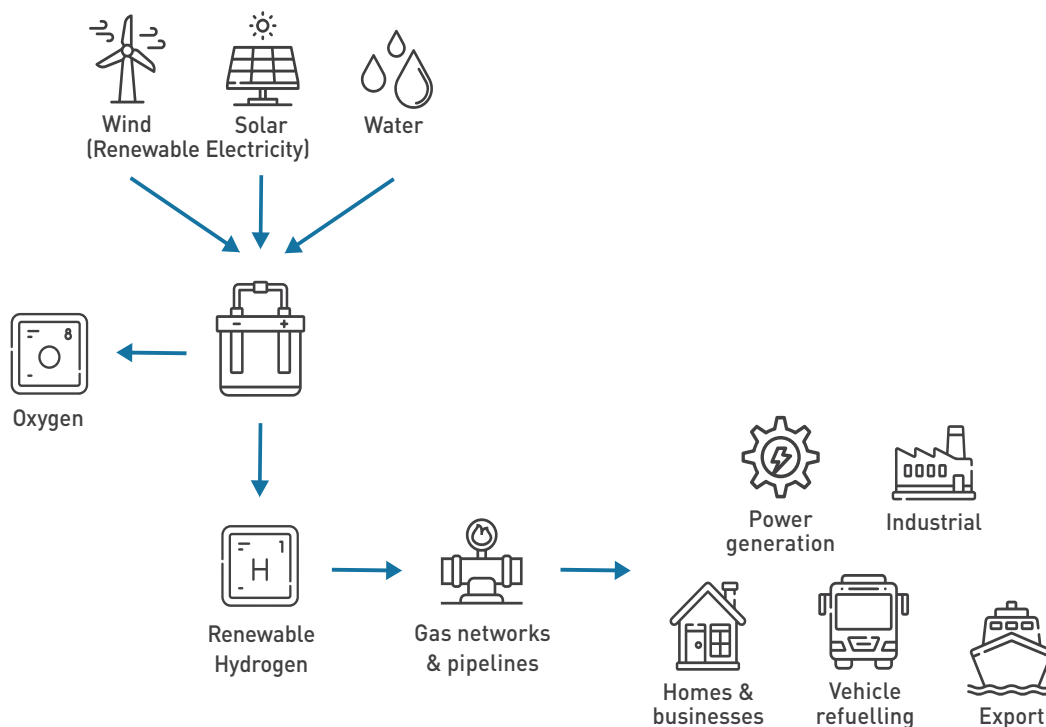
SUSTAINABLE FUTURE OPTIONS FOR GAS

Prepare for the future of renewable gas, commencing with a blend of hydrogen and natural gas, by ensuring the proper maintenance of your boiler, which is already designed to accommodate hydrogen.

Find out more about renewable gas by visiting www.australiangasnetworks.com.au/renewablegas

DID YOU KNOW?

The Victorian Government is underway with creating new Renewable energy options, making your transition to a greener future easier. For more information, visit www.energy.vic.gov.au/renewable-energy/renewable-energy-zones.



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