Your guide to getting started with

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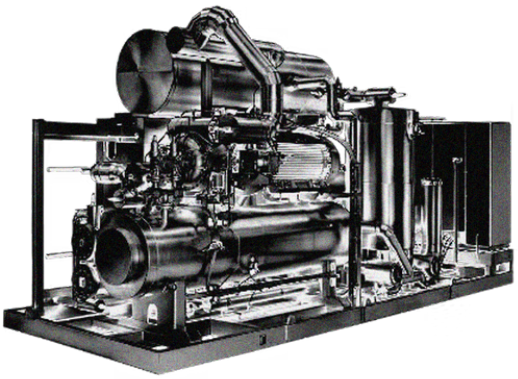
heat⇄pumps

Heat pumps can efficiently provide industrial and commercial heat across a range of temperatures, enabling electrification and reducing the need for fossil gas.



After you have explored the case studies and technical information at FutureHeat.info, here are some recommended steps to follow to help lower the cost of your heat pump and improve its performance.

STEP 1: UNDERSTAND YOUR HEAT AND ENERGY DEMANDS

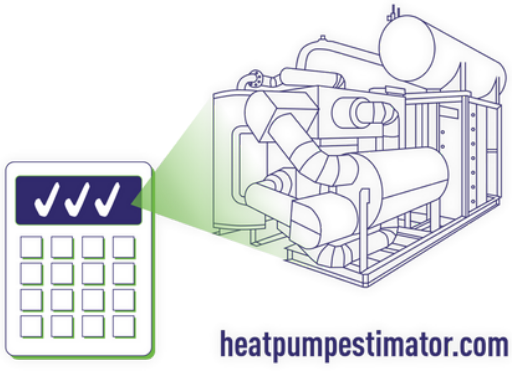
Without knowing your true heat demands and energy use across your site, you could lock yourself into decades of unnecessary heating and a heat pump much larger (and more expensive) than required.

Implementing energy efficiency first and sizing your heat pump correctly can reduce the capital cost by up to 75%

If you don't yet have a metering and monitoring system in place, it is time to get one. Currently the NSW Government is offering grants to eligible businesses to do just this. An energy consultant can assist you with the planning of your system.

STEP 2: USE THE HEAT PUMP ESTIMATOR TOOL

The Heat Pump Estimator from A2EP is online and free to use. It will help you understand what size heat pump you might need, its physical footprint, refrigerant options, as well as how incorporating thermal storage



might improve the performance and payback on your system. The results provided by the Estimator will be great for the next step. Try the Heat Pump Estimator now.

STEP 3: CONDUCT A HEAT PUMP FEASIBILITY STUDY

Now that you have reduced your energy and heat demand and have some basic numbers, it is worth engaging an energy consultant to conduct a heat pump feasibility study for some solid figures on performance and payback. Heat pump feasibility grants are currently available for eligible NSW businesses.

STEP 4: START TALKING TO HEAT PUMP SUPPLIERS

With the information from your heat pump feasibility study, or continuing with your energy consultant, you are now ready to approach heat pump solution providers. As with any major purchase, you will want to speak to several with a track record in your type of application.

STEP 5: APPLY FOR AVAILABLE FUNDING & CERTIFICATES

Securing funding will help improve your business case even more. In addition to ongoing certificate programs, project grants are occasionally introduced by state and federal governments to support decarbonisation technologies, such as heat pumps. Be sure to check what's available in your state and sector.

Current funding opportunities:

- NSW Energy Savings Scheme
- Victorian Energy Upgrade Fund
- NSW Heat Pump Feasibility Grants
- The national Powering the Regions Industrial Transformation Stream

THERMAL STORAGE?

Be sure to consider thermal storage when planning your heat pump system. It can reduce the capacity heat pump you need and the hours you need to run it. It can also enable you to take advantage of on-site solar generation, periods of cheaper electricity and to participate in flexible demand programs.

ELECTRICAL UPGRADES?

Adding a heat pump could potentially increase your electricity demand beyond your current supply capacity, which can require a costly electrical upgrade. Read our guide on what you can do to avoid this, as well as how to work with your network for a more timely upgrade.

MORE RESOURCES TO SUPPORT YOU

The following resources are available on the **FutureHeat.info** website:

- A refrigerant guide for heat pumps
- A how-to guide for retrofitting commercial buildings with heat pumps
- A measurement and verification guide for heat pump projects for certificate creation
- Webinars, case studies and industry reports