

PRIME

For the future



The blueprint for a successful transition to a low-emissions future through Professionalism, Regulation, Information, Measurement, and Emission abatement.

PRIME pathways to low-emission HVAC&R

Professionalism	Skills and training, licensing, professional registration, tertiary education and an industry council or forum to consider strategy, policy, information sharing, and industry practices.
Regulation	Work with government policy makers and regulators on industry codes and Australian Standards, including validation, regulatory data, and enforcement.
Information	Educate and inform end users, disseminate low-emission skills and knowledge, technologies, design practices, convert data to information.
Measurement	Measure and benchmark HVAC&R performance using system rating tools, industry metrics, building tuning, system optimisation, validated efficiency claims and technology-comparison tools.
Emission abatement	Product stewardship, new technologies, work practice accreditation, incentivising low-emission interventions, maintenance for energy efficiency, and refrigerant containment.

Australian HVAC&R is carbon-intense

According to the *Cold Hard Facts 3* report published in 2018, Australian refrigeration and air conditioning was responsible for 13 per cent of total national CO₂e emissions, with more than 56 million individual pieces of equipment consuming more than 61,000GWh of electricity – about 24 per cent of all electricity used nationally. When you consider heating and ventilation usage, even more energy was consumed.

The HVAC&R industry consists of about 20,000 businesses nationally, employing 298,000 people across Australia. In 2016 the industry had overall expenditure of more than \$38 billion, which represented 2.3 per cent of national GDP. These are big numbers, illustrating how deeply embedded HVAC&R is within every aspect of the Australian economy. As Australia and developed world acts to control and contain carbon emissions, it is clear that low-emission HVAC&R has an essential role to play. Future HVAC&R must therefore be low-impact and low-carbon.

PRIME directives

PRIME aims to bridge the gaps between stakeholders in the industry in order to change thinking and practices.

Future HVAC&R will be:

- Integrated with buildings and end uses to safely provide health, comfort and productivity.
- Innovative, flexible, lean, measured and controlled for high performance and low impact.
- Intelligent, responsive, and able to self-diagnose so that systems are optimally efficient.
- Supported by a specialist, skilled and respected industry workforce, and by education and research institutions.
- Low cost, low carbon, and low environmental impact.
- An attractive and engaging industry offering rewarding career paths.

The PRIME vision

“To have an Australian HVAC&R industry that is highly skilled and professional, safe, cost-effective and environmentally effective.”

This vision means:

- A professional workforce underpinned by education, training and licensing regimes designed for a low-emission future.
- Low-emission technologies, practices and processes embedded into the industry.
- The right low-emission HVAC&R information, in the right hands, at the right time.
- An HVAC&R industry that takes genuine, practical steps toward reducing carbon emissions in buildings, industry, agriculture, and within the cold chain.

PRIME delivers

- A long-term low-emission strategy and focus for the HVAC&R industry.
- Access to trusted data and information.
- Benchmarks and tools so industry can measure emissions performance.
- Technical and non-technical low-emission guides and information for end-users, technical service providers and related professions.
- Engagement with education providers to ensure industry training needs are met, and that HVAC&R is appropriately addressed in other vocations.

**For more information on PRIME go to
www.airah.org.au/PRIME**