

## PRESENTERS – INTEGRATING HEAT PUMPS INTO AQUATIC CENTRES

### Moderator



**Kylie Hargreaves, Chair, Alliance for Energy Productivity:** A2EP is an independent, not-for-profit coalition of research, business and government leaders focused on finding pathways to double Australia's energy productivity and unlock the economic, technological, and environmental benefits associated with higher energy productivity.

Kylie has over 25 years-experience in Federal and State Government, including a decade working overseas in Europe and the USA. Kylie was a former Deputy Secretary (Deputy CEO) for several portfolios in the NSW Government, including Resources and Energy.

### Our Presenters



**Alan Pears AM, Senior Industry Fellow, RMIT University:** Alan has worked in the clean energy sector, particularly energy efficiency, since the 1970s and on climate policy and programs since the late 1980s, across all sectors of the economy, and with business, governments and community groups. He has been involved in program and policy development, site-specific projects, education and media commentary. Recent work has included reports with the Australian Alliance for Energy Productivity, Beyond Zero Emissions, local government and lots of other interesting things.



**Trent Hawkins, Regional Operations Manager, Northmore Gordon:** Trent has over ten years' experience in the industry, his specific expertise includes energy and carbon strategy development, energy management systems, energy auditing and opportunities assessments, and project implementation support. Trent has a particular interest in decarbonisation of thermal energy systems through electrification, heat recovery, and waste to energy, and is a recognised leader in the industry advising on alternatives to fossil fuel energy systems.



**Ian Garradd, Sustainability Project Officer, North Sydney Council:** Ian has a background in sustainable design science, energy efficiency & energy auditing.

He will reflect on the experience with multiple energy sources on the previous pool, now demolished, & discuss the technology choices at the new pool, which is currently under construction.



**Ross Kingston, Senior Sustainability Officer, Brimbank City Council:** Ross and his team are working on a 100% renewable energy powered leisure centre, underpinned by heat pumps coupled with thermal storage and solar PV. The project will be built as part of the redevelopment of the St Albans Leisure Centre, beginning construction in November 2020.

During periods of PV generation, the heat pump system operates to deliver the facility's heating and cooling needs and utilises excess solar generation to deliver thermal energy to a thermal battery. This optimises the heat pump system's performance when operating and reduces its utilisation outside of PV generation periods. Residual electricity demand will be sourced via a renewables PPA.



**Jarrod Leak, CEO, Australian Alliance for Energy Productivity (A2EP):**

Jarrod Leak joined the Australian Alliance for Energy Productivity (A2EP) as Chief Executive Officer after a long career with Swedish engineering company, Alfa Laval, most recently as Managing Director and Cluster President for its Oceania and south-east Asian operations.

Jarrod has a great depth of experience across a range of industries, with significant expertise in implementing innovative technology-based sustainability and energy productivity solutions. With A2EP already having established energy productivity on the agenda in Australia, Jarrod is focussed on taking energy productivity to the next level and emphasising the important role it will play on the path to net zero.