

Renewable Heat Pathways: Where Does eTES fit? - Northmore Gordon

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Certificates Our Environmental Attribute Certificate services help businesses accelerate technology adoption, improve project ROI, and manage claims of renewable energy, energy efficiency and carbon offset 1 carbon offset = 1 tonne of CO₂-e avoided or removed from the atmosphere. Avoided emissions covers activities that alter behaviour that would have otherwise caused emissions such as energy efficiency improvements or avoided deforestation. Removal covers activities that permanently remove CO₂ from the atmosphere such as new forestry plantations, soil carbon improvement or carbon capture and storage.

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- eTES • Stores electricity as heat, enabling flexible use of renewable power and supply of high-temperature heat
- Provides load-shifting benefits but generally requires access to alternative tariffs to be cost-competitive
- Electric Boilers • Straightforward replacement for gas-fired boilers • Simple to install but can increase operating costs under standard tariffs • Emissions improvements depend on renewable electricity supply, which in most of Australia is not yet guaranteed
- Heat Pumps • Highly efficient for low- to medium-temperature applications • Use cases are growing in high-temperature industrial processes, often relying on a consistent waste heat source for efficiency
- Biomass and Biogas • Well-established technologies for continuous heat supply • Depend on reliable, sustainable fuel chains or onsite biogas production capacity
- Certified Green Gas • Biomethane supplied through the gas network under certification • Requires no change to site infrastructure • Typically higher operating costs due to current supply constraints
- Heat/Energy-as-a-Service • Third party owns and operates the renewable heat system • Delivered as a service with limited or no CAPEX required • Attractive for organisations seeking off-balance sheet solutions

When Does eTES Work Best? Success with eTES depends on three key factors:

- **Heat and Power Use:** The system must be sized and operated to match your load profile and allow effective charging and discharging
- **Infrastructure Readiness:** Electrical and thermal systems need to integrate with eTES without costly upgrades
- **Certificates and Incentives:** Access to environmental certificates or tariffs is often essential to achieve favourable financial outcomes

Choosing the Right Pathway The optimal renewable heat solution depends entirely on-site context, including:

- Heat demand profile and temperature requirements
- Existing boiler and electrical infrastructure
- Availability of renewable electricity or alternative fuels
- Suitability for certificates, grants, and incentive schemes

In many cases, a hybrid approach delivers the best balance of cost, emissions reduction, and reliability. **How Northmore Gordon Helps** We provide independent, technology-neutral advice across all renewable heat options. Our services include:

- Comparative modelling of performance, cost, and emissions
- Infrastructure assessments to highlight integration requirements early
- Certificate and incentive mapping to maximise financial returns

Don't Start with Vendor Quote

Collecting quotes from individual vendors in isolation often leads to poor comparisons and mismatched systems. A strategic review should come first – clarifying which pathway, or combination of pathways, makes sense for your business. If renewable heat is on your agenda, talk to Northmore Gordon first. We'll help you review the options, model the economics, and move forward with confidence. For more information: Contact Grant Raja, Principal Consultant Decarbonisation , Energy Efficiency , eTES , Northmore Gordon , Renewable Energy , Renewable Heat You may also like: Welcome to our August & September 2026 Compliance Update. Australian Certificate Markets – August 2026 Update Where's the value in renewable heat? Latest Updates ASRS Group 3: are you in scope and don't know it? September 18, 2026 Correct as at 13 September 2026. If your company is a large proprietary company, you Read More » Beyond annual matching: The evolution of time-stamped RECs August 18, 2026 For more than a decade, Renewable Energy Certificates (RECSI-RECs, GOs, TIGRs Tradeable Instrument for Global Renewables (TIGR) Registry is an online platform for tracking and transferring renewable energy certificates (RECS), enabling developers to generate, verify and sell RECs. The registry is run by APX, a US company that provides infrastructure for environmental markets around the world. , LGCs, ZNECs, J-Credits) have Read More » Solar irrigation upgrades: Don't let certificate funding go unclaimed August 10, 2026 Irrigation pumps are one of the biggest hidden costs on an Australian farm. In particular, if Read More » SRES expansion: STC eligibility to increase from 100 kW to 1 MW from October 2026 August 6, 2026 The Australian Government has announced a major expansion of the Small-scale Renewable Energy Scheme, increasing Read More » Get in touch Australia 1300 854 561 (Advisory) 1300 878 500 (Certificates) Melbourne Suite 1, Level 4 607 Bourke Street Melbourne VIC 3000 Singapore +65 6690 2480 Singapore 1 Keong Saik Road, Singapore 089109 Stay up to date Alternatively, complete the form and we will be in touch with you. First Name Last Name Email Phone Number Country Australia Singapore Subject Message Send Services Energy Audit Services M&V; Services EEO Assessments Corporate Energy and Carbon Management Grants and Program Strategic Energy Sourcing Virtual Energy Manager Climate Active Certification Sectors Animal Processing Chemical Processing Commercial Buildings Food & Beverage Manufacturing Mining Oil & Gas Pharmaceutical & Health Products Public Sector Waste & Wastewater Wood, Paper & Cardboard Processing Upgrades Boiler Upgrades Commercial Lighting Hot Water Systems Mid Scale Solar NABERS Public Lighting Refrigerated Display Cabinets Solar PV Small Scale UPS Certificates Live Certificate Prices International Renewable Energy Certificates Tradable Instrument for Global Renewables Australian Carbon Credit Units Energy Savings Certificates Large-scale Generation Certificates Small-scale Technology Certificates Victorian Energy Efficiency Certificates Government Schemes Emissions Reduction Fund Energy Savings Scheme Renewable Energy Target Victorian Energy Upgrades Helpful Links About us Meet the Team Careers Contact us Articles News Glossary Privacy Policy Complaints