IMPACT ZERO

ENGINEERING CAPABILITY STATEMENT

Independent engineering. Practical, measurable outcomes.

Impact Zero is an independent engineering-led consultancy supporting energy-intensive organisations to improve operational performance, assess renewable and electrification options, and develop achievable sustainability and decarbonisation pathways across Australia and internationally.

CORE CAPABILITIES

Engineering & asset optimisation

HVAC and central plant, chilled/hot-water systems, BMS, controls, reliability and operational optimisation.

Energy efficiency & auditing

AS/NZS 3598 energy assessments, load analysis, equipment opportunities, monitoring and measurement & verification.

Electrification & renewables

Industrial heat pumps, process heat, solar PV, battery storage, solar cooling and renewable integration.

Sustainability & decarbonisation

GHG baselines, transition pathways, carbon accounting, climate considerations and implementation planning.

Water & circular economy

Water efficiency, resource recovery, wastewater opportunities and circular-energy integration.

Engineering feasibility & business cases

Technology-neutral options, cost and tariff modelling, lifecycle economics and practical delivery plans.

SECTORS WE SUPPORT

Industrial and manufacturing facilities • Healthcare and aged care • Commercial property and infrastructure • Education and government • Agriculture and food processing

HOW WE WORK

Understand the site. Review operational conditions, energy and water data, existing plant, duty profiles and constraints.
Assess the options. Compare achievable performance, technical risks, energy tariffs, emissions and lifecycle cost.
Support decisions and delivery. Prioritise investment, outline implementation requirements and define verification measures.

IMPACT ZERO

ENGINEERING EXPERIENCE & DELIVERY

TECHNICAL EXPERIENCE

Impact Zero draws on more than 25 years of energy efficiency and engineering experience through its founder and specialist collaborators. Relevant technical experience includes building-services optimisation, industrial thermal systems, healthcare energy performance, renewable-energy assessments, heating and cooling plant, and sustainability programs.

ILLUSTRATIVE PROJECT THEMES

Industrial heat and process energy: steam/hot-water systems, heat recovery, high-temperature heat pumps, process load evaluation and network demand implications.
Healthcare and complex buildings: HVAC and chilled-water optimisation, plant replacement planning, thermal electrification, operational continuity and controls.
Renewable integration: solar PV, storage, load matching and site-specific technical and financial assessment.
Water and resource efficiency: efficiency assessments, system integration, wastewater and circular economy pathways.

PROFESSIONAL LEADERSHIP

Dr Paolo Corrada — Founder and Managing Director
Doctoral qualifications: Politecnico di Milano and Queensland University of Technology (QUT).
Professional credentials: CPEng (Mechanical), RPEQ and IntPE(Aus). Environmental engineering background.

WHAT CLIENTS CAN EXPECT

- Transparent technical assumptions, baseline and operating data requirements.
- Feasible engineering options with risks and site-integration considerations.
- Energy, cost and emissions estimates with uncertainty identified.
- Decision-ready recommendations and, where agreed, implementation and verification support.

DISCUSS AN ENGINEERING PROJECT

Energy and plant optimisation | Heat-pump feasibility | Renewable integration | Decarbonisation

www.impactzero.com.au | paolo@impactzero.com.au

Capability statement | November 2026. This document describes areas of expertise and potential services. Project outcomes depend on the site, agreed scope and verified inputs. Named professional registrations relate to the individual listed above. No client endorsements or project savings are implied.