Project Partners

Leading the way in large projects and installations

EXCELLENCE • INNOVATION • SERVICE
Since 1982

eci
exhaust control industries
AUSTRALIA

Projects, Installation and Packaging

Delivering noise and pollution control solutions

Exhaust Control Industries (ECI) is the recognised packaging leader in emissions and air pollution control throughout Australia, the Pacific and Southeast Asia.

ECI provides a full-service offering for your project - Front-End Engineering Design (FEED) and consultation through to fabrication, delivery and installation. We deliver noise and pollution control solutions for large projects and installations.

We've been inventing and developing innovative exhaust treatments and noise pollution control technology for over 40 years.

We offer unique and affordable emissions and noise treatment technologies for the safe and effective treatment of diesel exhaust emissions for all applications and industries.

We partner with consultants, building corporations and industry leaders to provide commercially viable turnkey solutions that address environmental and spatial challenges.

Working closely with the EPA, regulatory bodies and local government, and the government advisory body, Clean Air Society of Australia and New Zealand, we provide compliant future-proof installations for our partners and customers.

ECI delivers the best emissions packaged solution that will:

- use the most effective, reliable products on the market;
- deliver the most suitable and effective design specifications;
- work within any tight confines allocated;
- reduce your installation time;
- maintain engine capacity and uptime;
- iimprove your workplace environment & safety; and
- meet or exceed EPA regulatory requirements.

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Large Project Delivery Specialists

High performance products

ECI has an extensive range of innovative products that provide solutions for fuel, sound and exhaust pollution, reducing your environmental impact.

Customised solutions

ECI a full-service offering for your project, from design to manufacture and installation. We manufacture in Australia to your specifications, which results in improved performance, quality, compliance, less risk of shutdown and longer asset life.

Innovative technology

We deliver compliant emissions and noise pollution solutions that adhere to today's regulations and cater for future requirements, incorporating local and/or international regulations.

Quality product

Our Australian technology adheres to local environmental regulations and reduces noise and diesel/gas-powered emissions pollution: hydrocarbons, carbon monoxide, diesel particulate matter and NOx.

Dedicated expertise

Since 1982, ECI's projects team of engineers, installation and delivery teams have been working across Australasia, Asia and the South Pacific. They are emissions industry experts in the development of new environmental technology, and industry leaders in aftermarket emission solutions.

Partner network

Addressing the challenges of changing regulations, installation restrictions and local environmental requirements is easier to navigate with ECI's team of experts; they continue to deliver the most effective solutions to Consultants, OEMs, developers electrical contractors, builders, and industry leaders.

40+ years experience

We have the experience required to deliver the best, most efficient solution: a quality, durable and reliable package.

Local presence

Based in Australia, ECI manufactures bespoke customised quality packages specific to your project and application.

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"Improving air quality drives our innovation and commitment to invent, design, develop and manufacture an extensive range of exhaust and noise pollution control solutions,"

Dean Marchiandi, Managing Director, Exhaust Control Industries.

Experts in Large Projects, Installation and Packaging

ECI has a highly skilled team of project installation experts who can design, manufacture, deliver and project manage noise and pollution solutions, including installation, testing, and commissioning.

ECI delivers noise and emissions solutions that encompass: diesel and gas power generation equipment, plantrooms, acoustic treatments, attenuators, plennums, canopies, container solutions, bespoke fuel systems, thermal insulation, waste heat recovery, glasshouse CO2 enhancement, and vibration isolation.

ECI manufactures in Australia and has teams delivering solutions throughout Australia and Southeast Asia. We are recognised across APAC as the emissions industry experts.

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Maintain critical performance whilst meeting your environmental obligations

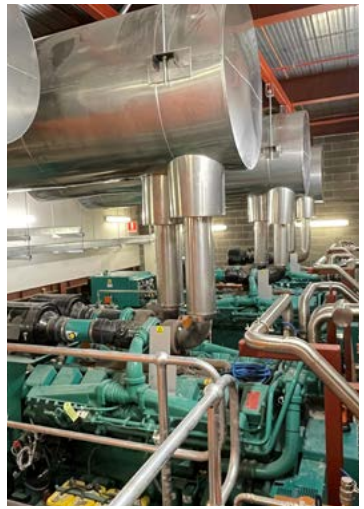
Proven Experience

We have successfully delivered tens of thousands of projects over the last 40 years...

"We are committed to being responsive to your needs, and to providing high quality innovative solutions,"

Dean Marchiandi, Managing Director,
Exhaust Control Industries.

Providing responsible emissions and noise solutions



Proven Capability

Applications for government, OEMs, corporations, mining, oil & gas exploration, tech companies, data storage...

Delivering the most commercially viable solutions to thousands of clients across many countries.

Scope of supply

ECI supply and install locally-manufactured products. We use specialised materials and asymmetric cell technology to increase soot capture, reduce back pressure and enable more specialised design capabilities.

Leaders in industrial custom exhaust solutions, co-generation and SCR technology

Catalyst systems

Reducing harmful emissions in diesel, chemical and industrial operations, ECI is the major producer of universal catalytic converters and direct fit models. Customised options in design of diameter, length, cell density, wash coat type and loading are available.

- Oxidation Catalyst Systems/Purifiers
- Predator™ Particulate Catalysts
- Armour Tech™ Diesel Particulate Filters
- Thermal Insulation

Silencers

Making quieter workplaces, urban environments and enclosed settings. Designed and manufactured to suit all types of engines: generators, pumps, compressors, marine and mining equipment, trucks and buses.

Explosion-resistant silencers for gas engines and generators, compliant with Australian standards.

- Acoustic Products
- Waste Heat Recovery Options

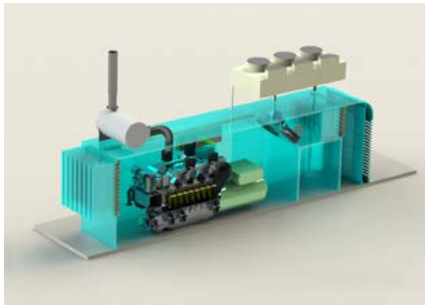
Selective Catalytic Reduction

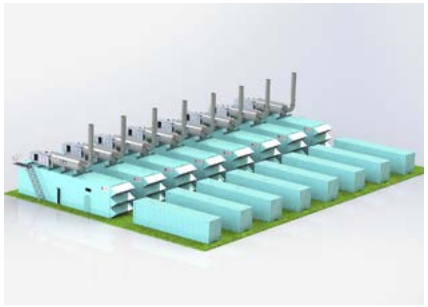
SCR for NOx Abatement, reducing harmful emissions in industrial, chemical and diesel operations. This retrofitted control technology reduces emissions up to 98%, reducing measurable reductions in oxides of nitrogen (NOx), carbon monoxide (CO), volatile organic compounds (VOC) and Global Warming Potential (GWP).

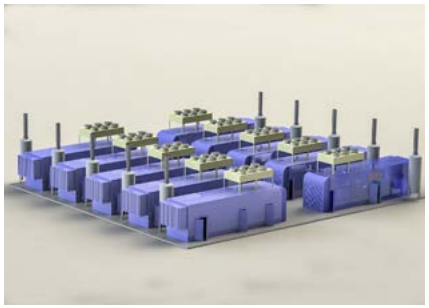
- SCR NOx Abatement Systems
- Eco2 Pro CO2 Enhancement with Oxidation Catalyst
- Continuous Emission Monitoring Systems (CEM)

3D Modelling and Design Capability

We have in-house 3D modelling design capability, allowing us to integrate our design seamlessness with your architectural project drawings or site landscapes.







Our in-house 3D Modelling helps both designers and users - it improves drawing efficiency, accuracy and provides a full perspective of the best packaged solution.

3D CAD drawings provide you with an easy-to-understand, quick and accurate visualisation of your installation. When designing in 3D, the design is done in one complete design concept, without requiring several 2D drawings from different angles.

It gives you the ability to physically see from all perspectives: elevation, capacity, spatial arrangement and use of materials.

By using 3D drawings, you can clearly see how the design best allows for optimum safety, operational access and equipment maintenance.

Our 3D design drawings provide you with an optimum view to facilitate faster project approvals.

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Providing Certainty

We aim to deliver on time and on budget, providing high-performing products and delivering the most sustainable and compliant solution. What you expect is what you receive

- ✓ **Commercial installations with diesel and gas engines** for exhaust emission treatments, including trigeneration
- ✓ **SCR treatments** used in urban areas, universities, datacentres, power stations, commercial & residential buildings, and critical infrastructure. Providing regulatory compliance up to Tier 4 standard.
- ✓ **Diesel retrofit** projects for tunnel use, plant equipment and on-highway transport vehicles
- ✓ **Acoustic treatments** for urban utilities, warehousing and logistics operations
- ✓ **Power generation installations in commercial buildings** with exhaust emission treatment options
- ✓ **Datacentres** and **Communication Centres** packaging and emissions treatments
- ✓ **Power generation installations in Hospitals and Aged Care** with exhaust emission treatment options and acoustic solutions
- ✓ **CO2 generation for commercial hot houses using gas power generation,** providing significant operating cost reductions to commercial growers
- ✓ **Commercial diesel power stations** fitted with NOx abatement treatment up to 170 Megawatts
- ✓ **Aquaculture DPF Solutions** to limit carcinogenic exposure to pens, tanks and growing ponds
- ✓ **Marine Silencer Packages** and **IMO3-compliant** emissions treatments
- ✓ **Underground mining** with diesel particulate filters for plant equipment and vehicles
- ✓ **Construction phases of underground tunnels** retrofitting of exhaust treatments to plant equipment, in order to protect operational staff
- ✓ **SCR solutions for OEM engine test cells** for clean engine testing as required by governments internationally
- ✓ **Commercial and residential towers** providing SCR and oxidation catalyst solutions
- ✓ **Remote power stations** packaging and emissions treatments
- ✓ **Fuel system fabrication** of bulk tanks, base tanks, day tanks, PLC automaton, polishing systems - AS1940 compliant site installation
- ✓ **Landfill gas sites** with AS1210 and AS1375 certified explosion-resistant silencers
- ✓ **Eco2 Pro CO2 Capture** gas engine utilisation treatments to enhance the productivity and profitability of green houses for growers.
- ✓ **Cogen, Trigen & waste heat recovery from diesel & gas generators**

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