



AUDITS  
MONITORING  
CONSERVATION

# Energy Management



[www.energynz.com](http://www.energynz.com)



# Energy management and auditing services

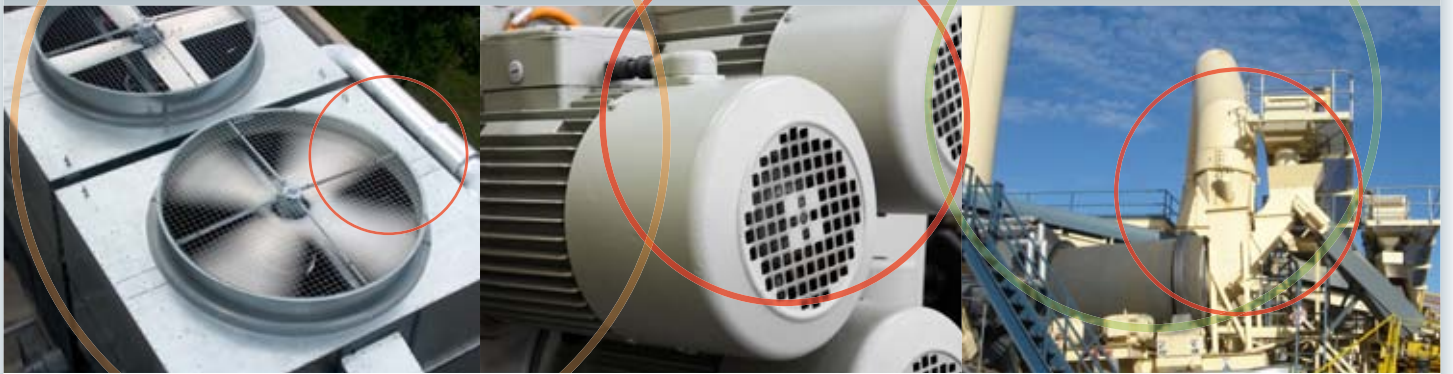
Energy NZ is New Zealand's leading provider of energy management and process efficiency services.

We provide energy and carbon emission auditing services for manufacturing, service industries, utilities and transport fleets throughout New Zealand and Australia.

Our services cover all aspects of energy supply, energy consumption, operational and process efficiency, and new facility design. These services can be provided in part or whole, across single or multiple sites.

Energy NZ has trade and tertiary qualified accredited energy auditors and can facilitate Government grants for large energy consumers.





# Covering all aspects of energy for our customers

Energy NZ provides a tailored range of energy auditing services to suit small, medium and large commercial and industrial organisations.

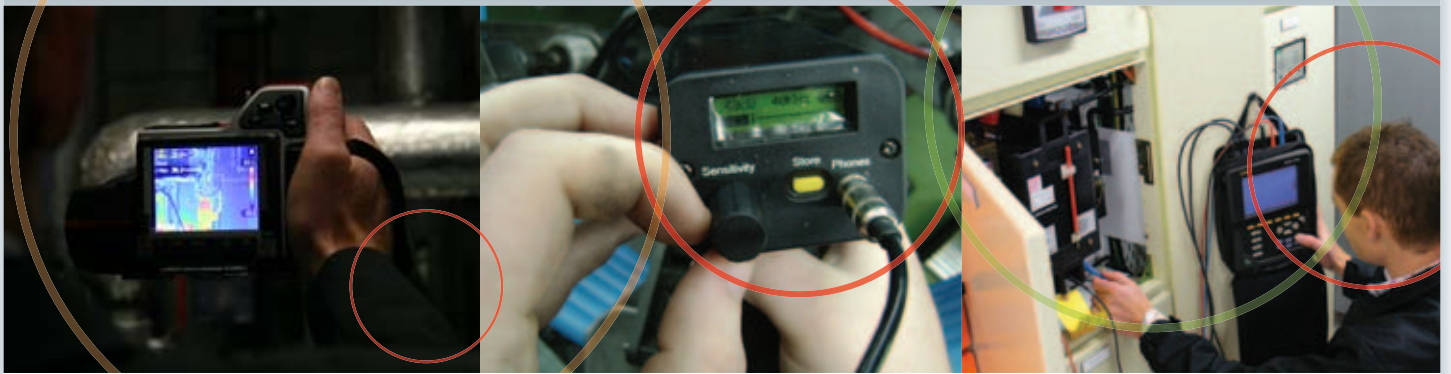
## **Energy NZ's energy auditing services include:**

- Small tailored commercial walk-through energy and carbon footprint assessments
- AS/NZS #3598:2000 level 1, 2 and 3 energy audits
- Transportation fleet audits
- In-depth carbon footprint and CO<sub>2</sub> reduction audits
- Design audits for new facilities or dedicated processes
- Government funded compressed air audits
- Ultrasonic compressed air leak detection surveys
- Power quality audits and power factor correction
- Infrared thermal imaging
- Water consumption and pump efficiency audits
- Vibration analysis

These services range from a walk-through energy audit of a small commercial building to an in-depth audit and design of a complex industrial process

Audit results are provided in a high quality written report that incorporates all relevant on-site data recorded by our engineers. The report identifies potential energy cost savings and CO<sub>2</sub> emission reductions, and estimates implementation costs. This information together with a recommended set of procedures, is reported in a way that can be clearly understood by company accountants, engineers and production and maintenance staff.





## Tailored solutions to suit our customers' needs

No matter how big or small your operation may be, Energy NZ can provide tailored energy auditing services to suit your needs. These auditing services can look at your entire organisation or at specific areas where energy efficiency is least understood.

The level of detail can be varied to suit your budget requirements. Energy NZ can also work with industry organisations to assist members, and to identify best practice energy efficiency and benchmarking targets.

### **Our technical services include:**

- Assessment of energy source rates, their suitability of use and investigations into alternative energy sources such as biofuels
- Energy and CO<sub>2</sub> emission footprint
- Infrared thermal imaging to assess insulation effectiveness and energy losses of building envelopes, piping, tanks and process heating equipment.
- Data logging of main electrical distribution boards and other heavy electrical users
- Ultrasonic compressed air leak detection surveys and air leak tagging
- Ultrasonic mass flow rate data loggings of compressed air, water and other fluids and gases
- Assessment of heat recovery options from refrigeration plant and boiler systems, air compressors and dryers
- Power quality loggings and power factor correction
- Assessment of current lighting types, control and their suitability of use
- Solar and heat pump water heating assessments



# Benefits

Energy NZ's energy management and auditing services provide our clients with the information they need to make informed decisions about their future energy needs. We identify key areas where capital investment is required to increase operational and process efficiency of the organisation which will enhance profitability and yield greater sustainability.

Our skilled engineering team work alongside the management, process and maintenance personnel within your organisation to assess where the opportunities to increase operational efficiency and profitability can be found.

**Our team will help your organisation better understand the energy flows in all areas of the operation and process while identifying:**

- Appropriateness of energy sources used
- Energy rebates for over-charges
- Efficiency gains from equipment upgrades and / or operation
- Optimisation of pressure, flow and temperature setpoints
- Optimisation of production scheduling
- Unnecessary processes
- Practical uses for waste energy streams
- Business opportunities



# About Energy NZ

Energy NZ is an independently owned and operated New Zealand company offering the following range of services nationwide to some of New Zealand and Australia's largest industrial and commercial organisations:

- **Energy, water and carbon emissions auditing**
- **Energy procurement and contract renewals**
- **Transport and vehicle fleet audits**
- **Compressed air system audits**
- **Ultrasonic compressed air leak detection**
- **Infrared thermal imaging**
- **Power quality monitoring**

Our team includes electrical and mechanical engineers, accredited energy and compressed air system auditors and certified thermal imaging and ultrasound technicians.

Call us today on +64 9 488 0942 and allow Energy NZ to demonstrate how we can improve the energy efficiency of your business.

## **New Zealand**

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