

Types of Energy Audits

Below is a description of 3 energy audit types - outlining included services provided;

LEVEL 1 Energy Audit (Is a 'Site Walk through' or 'Overview' Audit)

- Perform a 'walk through' inspection of the site & highlight where energy wastage typically occurs.
- Energy audit complying with 'Level 1' as defined in Australian Standard AS3598:2000
- Analyse energy bills (Electricity & Gas), check tariffs & look for unusual seasonal usage patterns.
- Seek the best tariffs available and recommend the 'best value' for the client. Energy is costly, why pay more than you have to.
- Create a short report that describes site energy usage, indicates areas of energy waste & approximately how much energy can be saved, cost estimates & payback periods for each initiative required to rectify. This is usually 40% accurate, as it is a 'big picture' approach, without the detail.
- Armed with this Level 1 Audit the client is better informed & can decide whether it's worth while to proceed further to a Level 2 Energy Audit or Level 3 Energy Audit - where more detailed energy efficiency analysis is performed to extract many more site specific energy saving initiatives.

LEVEL 2 Energy Audit (Is a 'Standard' Audit with brief recommendations)

- Perform a more detailed inspection of the site to reveal energy wastage.
- Includes all "Level 1 Energy Audit" as tasks listed above.
- Energy audit complying with 'Level 2' as defined in Australian Standard AS3598:2000
- Major appliances that use energy are checked for energy efficiency.
- Calibrated energy & temperature meters are used to assist in understanding site-specific energy usage patterns.
- Pinpoint Energy Wastage on site thereby creating a 'shopping list of main issues' for discussion & subsequent incorporation into an 'Action Plan' forming part of say a 5 year business plan.
- Provide a Report with recommendations listing energy saving initiatives, ie. Brief solutions are outlined that will reduce site energy waste & improve energy efficiency.
- Outline 'expected energy savings' & estimate costs to achieve savings. (~20% accuracy)

LEVEL 3 Energy Audit (Is a 'Detailed Analysis' Audit & targets maximum energy savings)

- Perform a thorough & very detailed inspection of each building to reveal all energy wastage.
- Includes all 'Level 1 & 2 Energy Audit' tasks listed above.
- Energy audit complying with Level 3 as defined in Australian Standard AS3598:2000
- All appliances that use energy are checked for energy efficiency.
- Calibrated energy & temperature loggers are used to drill down & understand actual energy usage patterns.
- Perform onsite maximum demand measurements, graphing & analysis of the results.
- Provide a detailed report with recommendations listing all energy saving initiatives, ie. Solutions required to reduce energy waste & improve energy efficiency.
- Outline 'expected energy savings' & provide more accurate costs to achieve savings.
- For each proposed energy saving initiative, if required – we compile full lifecycle costing & payback period analysis for client financial assessment.

Optional Extras

- If required, Green Wire Consulting can manage the implementation of all energy saving initiatives as identified within the energy audit report. This includes documentation, tender, project management, contract admin & defects inspections, to free up the client.