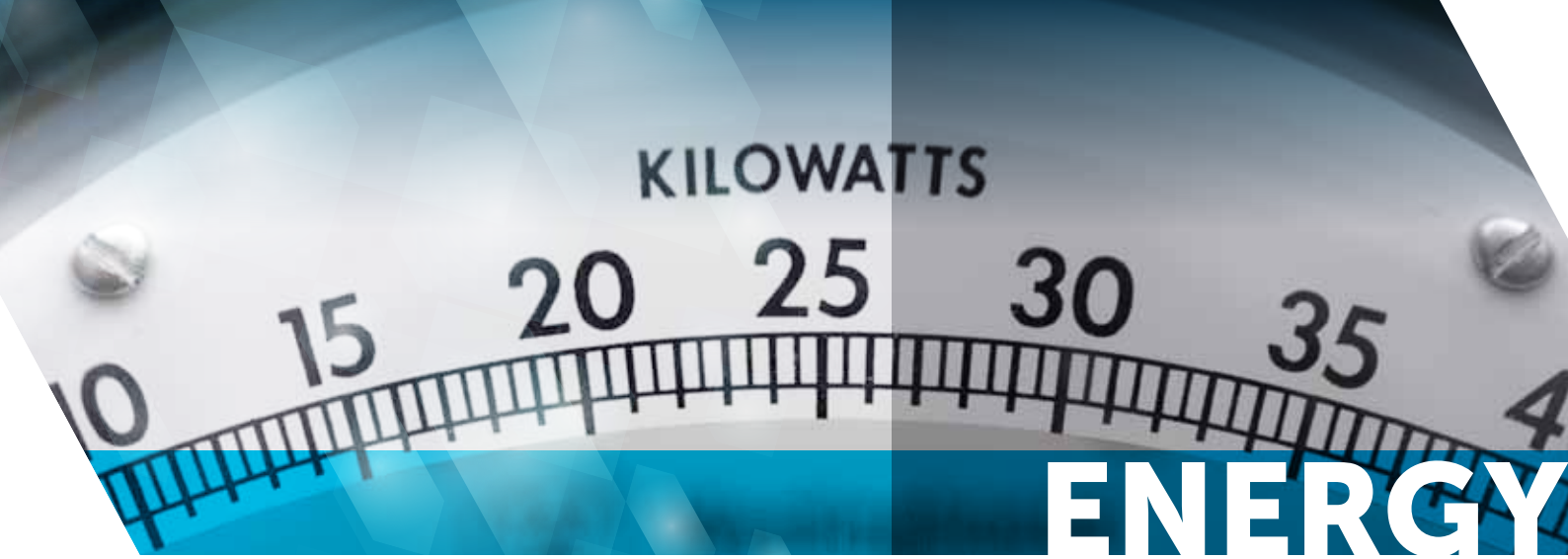

Energy Management Solutions

Alberfield is committed to making a difference for our Clients in the efficient use and effective management of Energy in their operations.

Alberfield Energy focuses our specialist energy skills, experience and knowledge to best support energy management in your organisation.

Alberfield Energy understands that the needs of your organisation are unique. We will work closely with you to create a customised solution that makes a difference for you.

What is Energy Management?

Energy management is concerned with planning and delivering efficient extraction, generation, transmission, distribution and use of energy in your organisation, facilities, project or development over the life of the requirement. Effective energy management delivers cost, operational, environmental and community benefits for your organisation.

How Does it Work?

It begins with the establishment of a fully documented, comprehensive Energy Management System (EMS) that identifies key energy management activities, roles and responsibilities within your organisation. An assessment of your energy needs over an agreed time period is completed. This is usually the expected life of an operation or an agreed fixed portion of that (e.g. 3 to 5 years). For an existing operation this may include a baseline assessment of your present and recent historical energy consumption against your activities and facilities over the same period. For a new project yet to be realised, this involves review of relevant plans and documentation against forecast energy related variables such as cost, availability, reliability, environmental aspects and regulatory requirements including federal, state and local government legislation and regulations.

Appropriate energy efficiency benchmarks and management system checks are established and documented to monitor and track energy efficiency and management system performance. An audit process is included to provide assurance that the EMS is delivering as planned and to drive correction and further improvement.

What makes it work?

EngEMS 1A - Energy Management System

EngEMS 1B - Energy Audit - Complete

- **EngEMS 1B-1** Level 1 Desktop
- **EngEMS 1B-2** Level 2 Walkthrough
- **EngEMS 1B-3** Level 3 Detailed Investigation

EngNG 1B - NGER (National Greenhouse and Energy Reporting Act)

EngEEO 1C - EEO (Energy Efficiency Opportunities Act)

EngNAB 1D - NABERS (National Australian Built Environment Rating System / — CBD compliance)

EngGS 1E - Greenstar (Green Star environmental rating system compliance)

EngBCA 1F - BCA Energy Efficiency (Building Code of Australia Energy Efficiency compliance)

Alberfield ENERGY Solutions that work

Your requirement not on the list? Contact us to find out how we can help with your individual needs **www.alberfield.com.au**

What will you get?

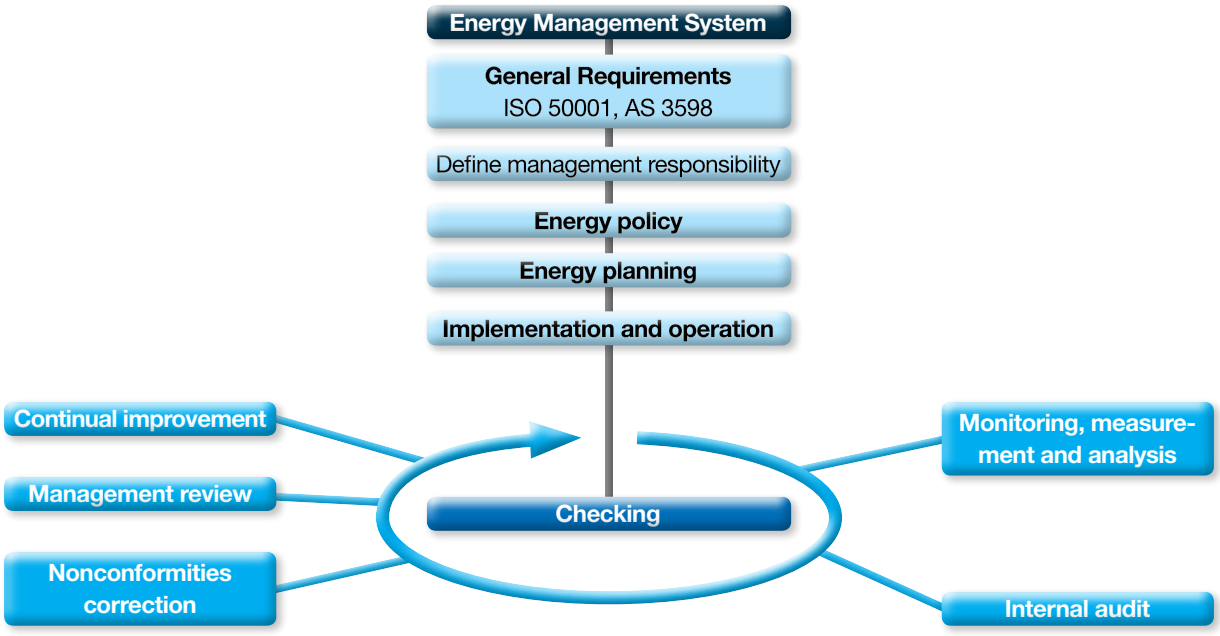

Fig 1 – Energy Management System Model adapted from ISO 50001:2011 (E)

Alberfield will provide a customised, documented management system for your organisation that addresses each aspect of the EMS process depicted in Fig 1 above.

How will this be done?

To establish your EMS, Alberfield will work closely with you to agree, define and document:

1. General Requirements in accordance with ISO 50001 and other relevant standards (e.g. AS 3598 Energy Audits)
2. Define Management Responsibility
   2.1 Top Management
   2.2 Management Representative
3. Energy Policy
4. Energy Planning
   4.1 Energy Review
   4.2 Energy Baseline
   4.3 Energy Performance Indicators
   4.4 Legal and other requirements
   4.5 Energy objectives, targets and action plans
5. Implementation and operation
   5.1 Awareness, training and competence
   5.2 Communication
   5.3 Operational control
   5.4 Design
   5.5 Procurement of energy services, products, equipment and energy
6. Checking
   6.1 Monitoring, measurement and analysis
   6.2 Evaluation of compliance
   6.3 Internal Audit of the EMS
   6.4 Nonconformities, correction, corrective action and preventive action
   6.5 Control of records
7. Management review
   7.1 Input to management review
   7.2 Output from management review.