Hello
Business Solutions for Energy Efficiency

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OVERVIEW

1. Context of presentation
2. Business critical points of energy efficiency
3. The business solution
4. Further opportunities
1. Context

- Energy Efficiency has moved from being an environmental management aspect to be managed to a regulated business area.
- Obligated organisations in Ireland now need to comply with local regulations for efficiency.
  - EU (Energy Efficiency) Regulations 2014 (SI No. 426 of 2014) transposing Article 8 of Directive 2012/27/EU and/or
  - The UK Energy Saving Opportunity Scheme (ESOS)
1. Context

- In parallel, there is continued development of Energy Efficiency schemes, tools and techniques aimed at “nudging” enterprises toward efficiency, e.g.:
  - German Energy-Saving Efficiency System Ordinance (SpaEfV) and Renewable Energy Act (EEG)
  - Irish Energy Suppliers Obligation Scheme
  - ISO standards
  - Corporate initiatives and programmes
  - SEAI initiatives and programmes
2. Business critical points of EE

- Where energy use and organisational activity are related Energy Efficiency (EE) is a business risk
- Poor EE = Energy Waste = Lost Profit
- Thus, good EE is profit making...or is it?
- Yes – when an organisation is aligned its business strategy and EE strategy
- No – when an organisation fails to grasp the business need and address EE in a technical (only) manner
2. Business critical points of EE

Often there are competing forces within a business:

• Our energy bill too high but we do not design or procure based on energy efficiency or life cycle costing
• We outsource energy management and/or procurement and are contract bound
• We have an EE programme but to maintain service levels means we cannot deploy it
• We wish to be EE but don’t have the business framework needed
• We are unsure of where to start - data/oversight is limited
3. The business solution (in the context of SI 426)?

- Two approaches
  - An energy audit
  - ISO 50001

- Both offer opportunities to identify energy savings
- Both allow conformity to the Regulations to be achieved
- Both could be run in parallel – i.e. use the audit as the starting point (aka the Energy Review) for ISO 50001
- BUT - the business decision needs to be considered – is compliance the objective or is business performance improvement?
3. The preferable business solution – ISO 50001

- Cost benefits are both quantitative and qualitative
- Quantitative benefits include:
  - Energy demand reduction (less to conduct the business)
  - Energy waste reduction (non value use ceased)
  - Delta in savings over just good practice (ref SEAI comparison of LIEN versus EA programme companies)
  - Energy efficiency assessment at design (cap ex and op ex reductions)
  - Embedded savings as opposed to project led only
3. The preferred business solution – ISO 50001

• Cost benefits are both quantitative and qualitative
• Qualitative benefits include:
  • Better budgeting for energy spend
  • Alignment between cost/energy reduction and business activity
  • Positive behavioural change
  • Positive organisational change
  • Improved understanding of energy demand of business
  • Improved awareness of energy as a business resource
4. Further Opportunities

• Energy Efficient Design
  • Emergent but critical for larger enterprises with multiple partners, suppliers and/or vendors

• Behavioural change
  • Projects aimed at embedding change in personnel or specific workplace environments (e.g. Project TEMPO @LIT)

• ISO 50001 as supply chain obligation
  • Standard is now part of corporate governance pack and perhaps tender requirement?

• Personal development
  • Certification programmes for individuals (e.g. CEM/CEA etc)
Summary

• Energy Efficiency impacts all aspects of business from design through to operations and should be considered in this regard
• It is now a mainstream business term and is demanded, required and needed
• If effective considered (via ISO 50001) it will benefit your business and you will be able to verify this