



**EFFECTIVE ENVIRONMENTAL MANAGEMENT**

# Navigating a new energy management landscape

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# World Energy Outlook

- Global energy demand up 2.1%
  - We need 30% more energy by 2040 to meet demand
- Fossil fuels v renewables
- Micro-gen, cooling, vehicles & storage
- UN Sustainable Development Goals
- Need action to meet Paris Agreement



30%



# National & Local Policy Context

Climate Change Act

ESOS, CRC etc

Industrial & Clean  
Growth Strategies  
2017

Cost of Energy Report  
Brexit.....



Strategic Economic  
Plans

BEIS – Local Energy  
Hubs

Regional energy  
strategies

# Trends



## Energy Transition

- Micro-generation
- Renewables
- Battery storage



## Information

- Demand Side Response
- Smart meters
- Management systems



## Sharing economy

- Vehicles
- Charging points
- Materials & equipment

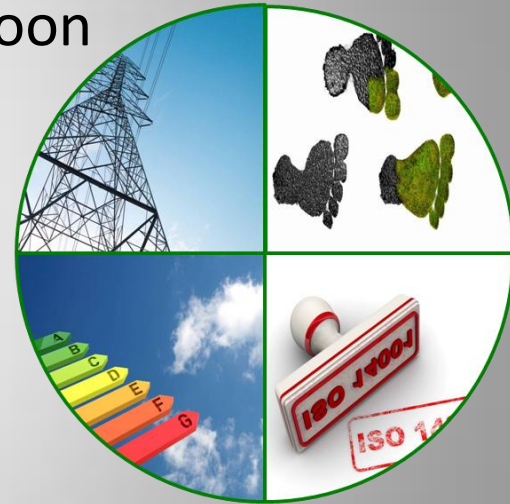


## Digitalisation

- Internet of Things
- AR & AI
- Predictive services
- Autonomous vehicles

# Compliance

- **ESOS** – act now to meet the Phase 2 deadline
- CRC and Carbon reporting – changes coming soon
- Minimum Energy Efficiency Standard MEES  
– new sites must have EPC rating of E
- Energy labelling – future trends
- **ISO 50001 & ISO 14001** – much more used to actively manage energy & environmental impacts, reduce costs & meet customer demand
- Understand Risks & Opportunities – **use PESTLE**



# Risks & Opportunities - PESTLE Analysis

Environmental

Political

Legal

Economic

Technological

Social



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