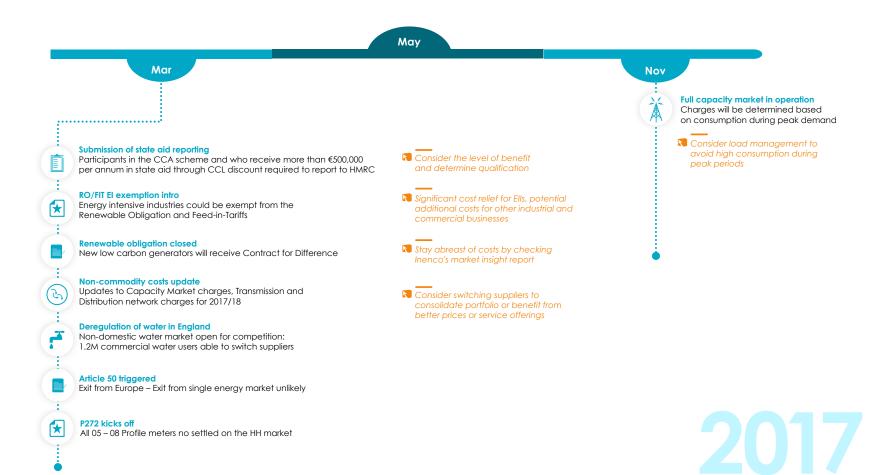
COMPLETE ENERGY MANAGEMENT A HOLISTIC APPROACH TO MANAGING ENERGY

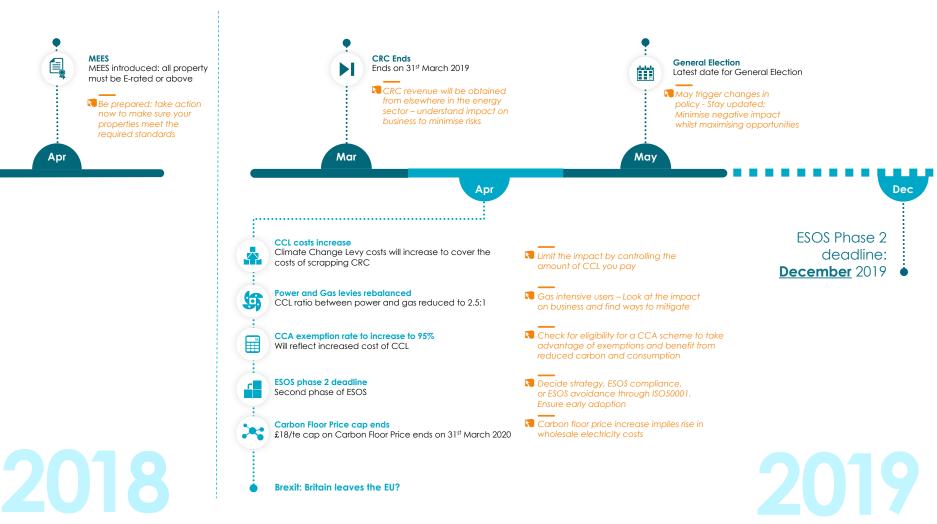
Lorcan Anglin, Head of Energy Reduction. David Oliver, Feasibility Consultant. Matt Jones, Lead Consultant, Inenco.



UK ENERGY COMPLIANCE AND REGULATION 2017

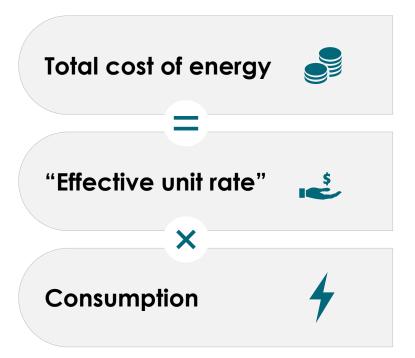


UK ENERGY COMPLIANCE AND REGULATION 2019

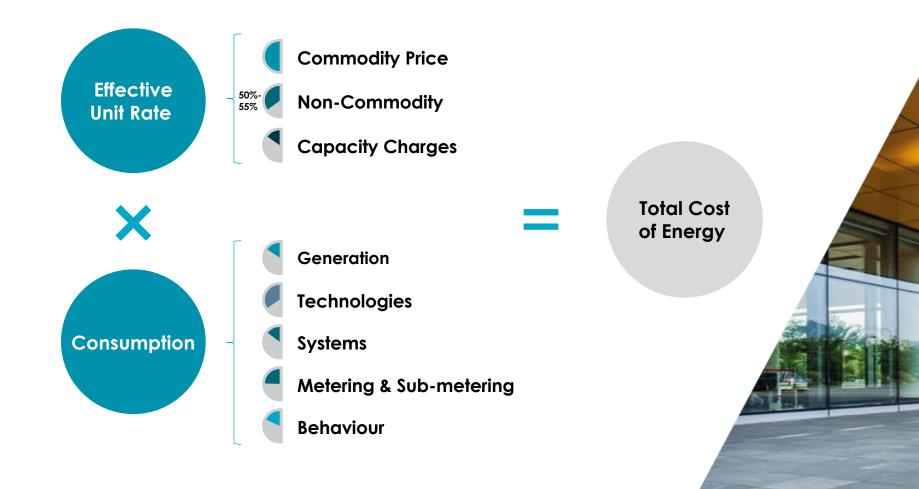








A STEP FURTHER...



IMPROVING ORGANISATIONAL ENERGY MANAGEMENT

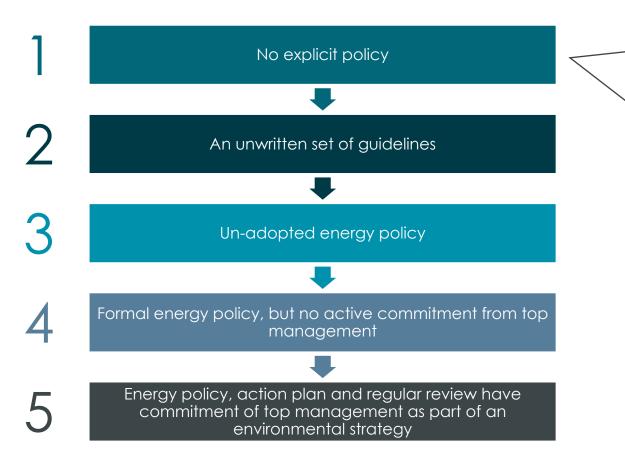
A quick guide to improving your energy management credentials



WHERE ARE YOU NOW?

Level	Energy Policy	Organising	Training	Performance Measurement	Communicating	Investment
4	Energy policy, action plan and regular review have commitment of top management as part of an environmental strategy.	Energy management fully integrated into management structure. Clear accountability and responsibility for energy cost and consumption.	Appropriate and comprehensive staff training tailored to identified needs, with evaluation.	Comprehensive performance measurement against targets with effective management reporting.	Extensive communication of energy issues within and outside organisation.	Resources routinely committed to energy efficiency in support of business objectives.
3	Formal energy policy, but no active commitment from top management.	Energy manager accountable for cost, consumption and responsible for improvements.	Energy training targeted at major users following training needs analysis	Weekly performance measurement for each process, unit or building.	Programme of staff awareness and regular employee briefings.	Same payback criteria employed as for all other investment.
2	Un-adopted energy policy.	Energy manager in post but line management and authority are unclear.	Contact with major users through ad-hoc training.	Monthly monitoring by fuel type	Some ad-hoc staff awareness training.	Low or medium Investment only if short-term payback criteria achieved.
1	An unwritten set of guidelines.	Informal, mainly focussed on energy supply.	Informal contacts between engineer and a few users	Invoice checking only.	Informal contacts used to promote energy efficiency.	Only low cost measures taken.
0	No explicit policy.	No energy management or any formal delegation of responsibility for energy consumption.	No energy related staff training.	No measurement or accounting for energy consumption.	No communication or promotion of energy efficiency or issues.	No investment in increasing energy efficiency.

Energy policy



Top Tip Electric Vehicles – Watch your capacity: Whilst the incentives for Electric Vehicles are good, businesses need to watch their capacity, installing a number of 50kW charging units could impact your capacity charge, which means additional costs on the bill (along with cost of charging)

Counter This By:

Installing LED lighting – this could reduce your capacity by 100kW, the equivalent of two charging points.

Energy management

No energy management or any formal delegation of responsibility for energy consumption Informal, mainly focussed on energy supply Energy manager in post but line management and authority are unclear Energy manager accountable for cost, consumption and responsible for improvements Energy management fully integrated into management structure. Clear accountability and responsibility for energy cost and consumption

Top Tip!

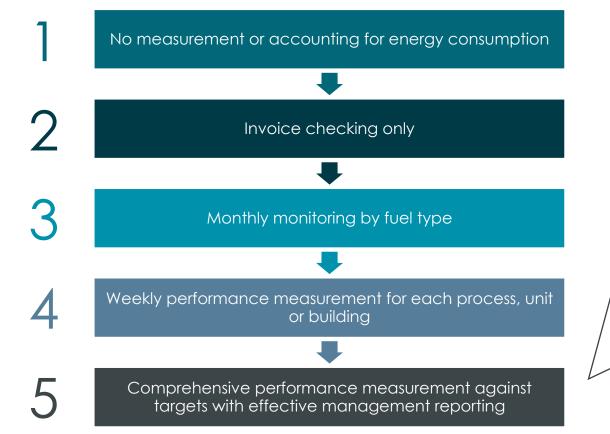
Energy reduction: batteries may not be most sustainable way to manage energy costs Only sure fire way to manage energy costs is to use less: buy well, use less, optimise what you use.

Energy training





Performance Measurement



Top Tip!

Employ a 'Night watch': some retailers have started to analyse their night energy consumption on a daily basis. They have a specific process:

- 1. Calculate the average/norm and then identify those that aren't conforming to it.
- 2. Within first four weeks, they alert business to which stores have unusually high consumption
- 3. Adjust behaviour
- 4. Measure significant reduction

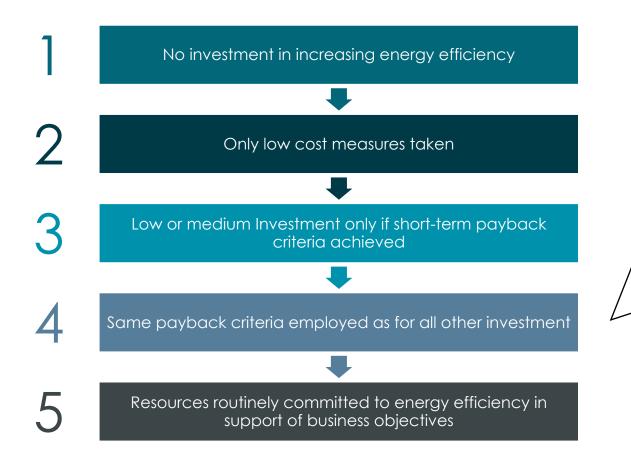
Communicating



Top Tip!

Take a holistic approach: its really important for multi-site portfolios: turning down one fridge or upgrading one store won't make huge difference for one site, but if delivered holistically, the savings become significant.

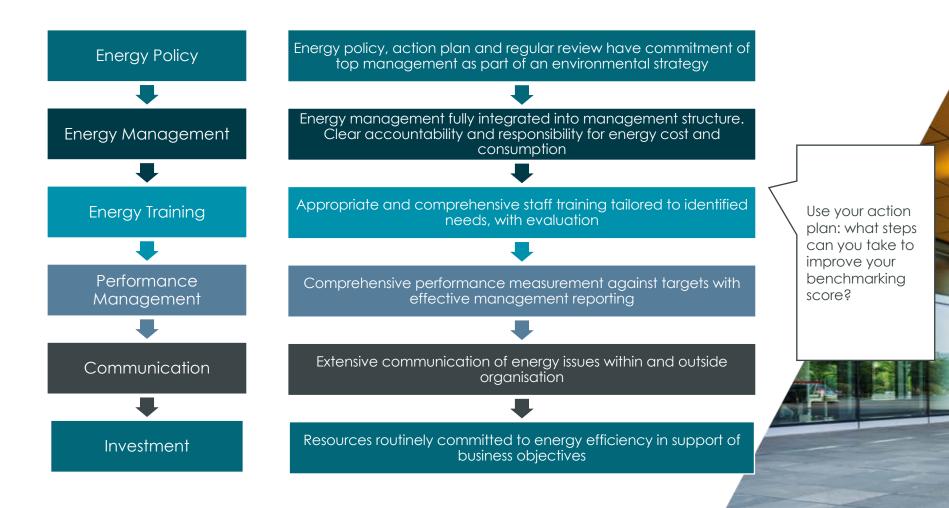
Investment



Top tip

Data: make sure you're getting the energy reduction you were expecting from measures. Data and ROI crucial – also helps to secure additional funding for future projects too (when you can prove success of previous project)

ENERGY ACTION PLAN



THANK YOU

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