

Presentation to:



ENERGY EFFICIENCY TIPS

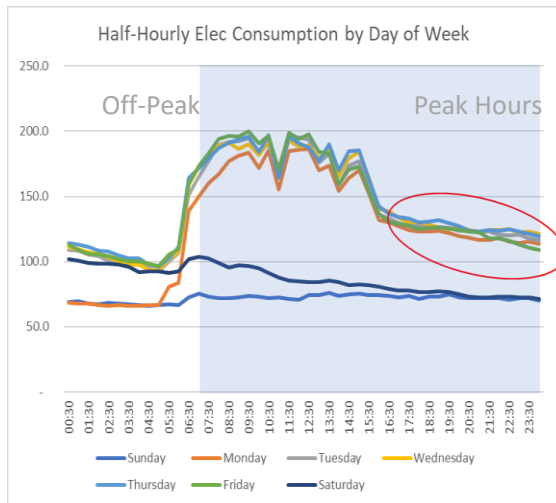
Agenda

1. OEP - What We Do
2. Policy & Macro Framework – Why Energy Efficiency ?
3. Tips
4. QUESTIONS

1. About OEP and What We Do

Based on experience within a Global Manufacturing business we identified a need to unblock the capex barrier. Data identifies the most appropriate solutions to the operational requirements of the site. We can then fund the measures.

Site energy analysis



Data gathered from the site:

- historic energy usage, bills,
- Metering data,
- sensor and BMS data
- equipment data
- spatial data and
- data from observation and audit



Solutions identified

- Easy changes
- Equipment upgrades
- Infrastructure changes
- On-site generation
- Smart management

Data-led:

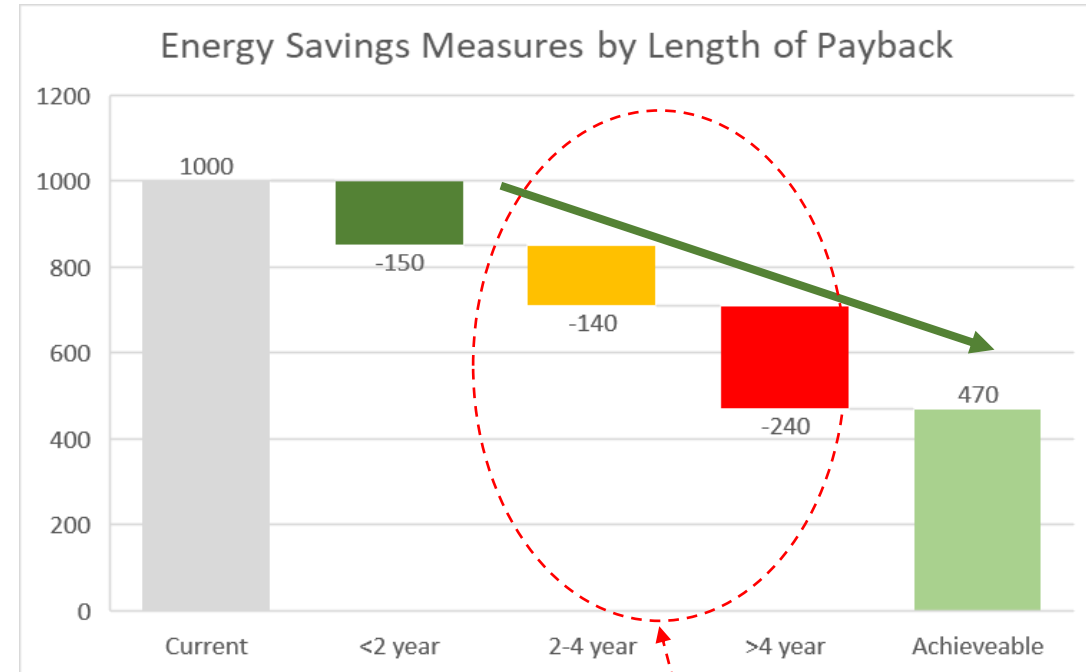
- (1) energy efficiency
- (2) energy generation customised measures

Resulting in:

- CO2 reduction strategy
- Energy reduction strategy
- Net zero strategy



Implementation



Our experience in global manufacturing is they seldom implement longer payback measures due to competition for capital and certain other factors....despite the measures being realistic and viable.

Our business is the delivery & funding of these measures on a £/kWh basis, via off-balance sheet energy supply agreement



1. About OEP and What We Do

We are:

- Independent of any product, technology or vendor
- Systems integrators, covering a wide range of solutions
- No building is the same
- No usage is the same
- Each building requires a custom solution

Technologies we support:

Easy changes	Equipment upgrades	Infrastructure changes	On-site generation	Smart management
BMS changes Door closings Set points, dead bands Air filter Better information – IoT sensing	LED Lighting VSDs Batteries Voltage optimisation Power Factor Correction	Chiller upgrades HVAC changes Heat pumps Absorption chilling BMS, SCADA systems	Solar PV Wind CHP Heat Recovery and heat usage solutions	AI monitoring - Behaviour tracking AI control & optimisation

2. Policy & Macro Framework – Why Energy Efficiency ?

CCA = 90% reduction on the CCL
= 0.729p per kWh saving

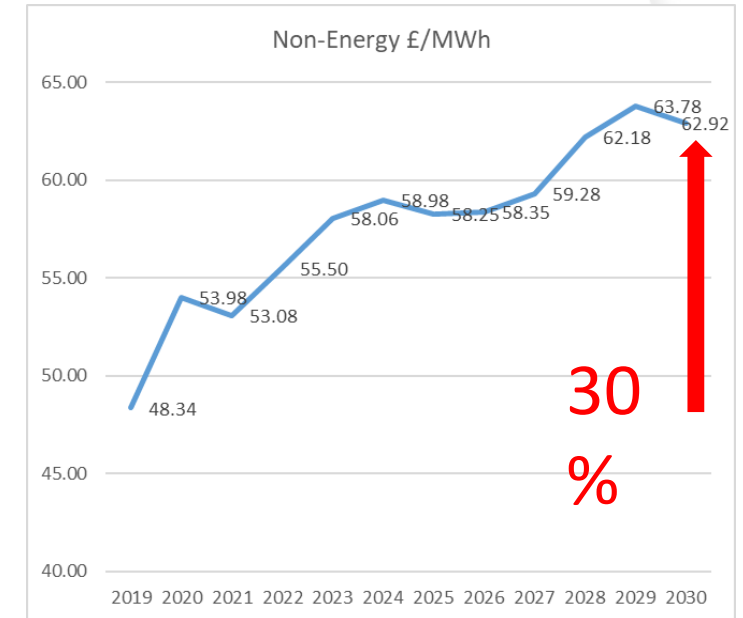
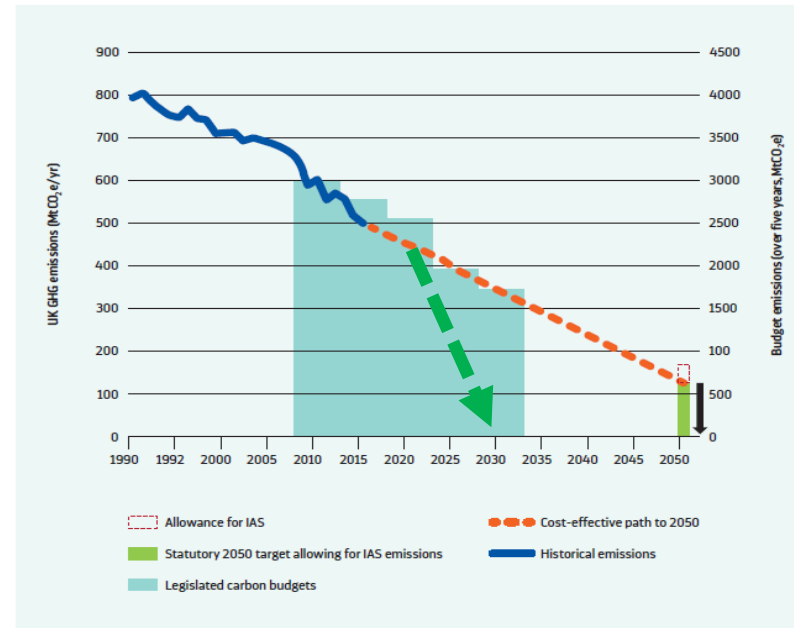
To qualify you must meet the government's target of:

- 6.67% reduction
- in relative energy usage by 2022
- against the base year of 2018

Do you have your base year calculated ?

What can be achieved by 2022 ?

Carbon budgets and the cost-effective path to the 2050 target



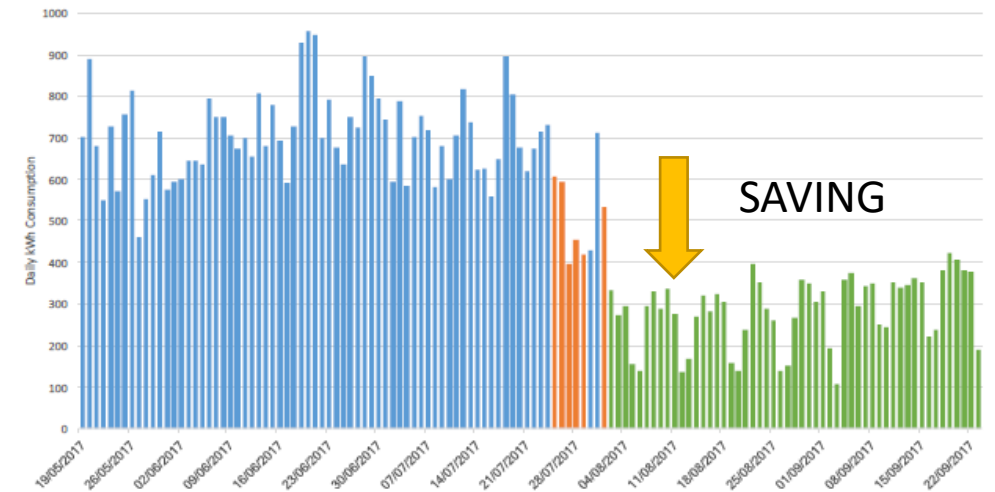
Source: Aurora Energy Research

What would be the impact for your business if you could achieve net zero sooner ?

3. Tips: Retrofit Smart Control to Your Refrigeration Equipment



- Applicable to air conditioning, refrigeration and heat pumps systems
 - 30,000+ installations worldwide
- Dynamically adjusts cut-in and cut-out points, to use most efficient suction pressure which increases the COP and reduces kWh
- Installed between primary controller and compressor, works within existing control methodologies.
- Doesn't impact equipment warranties
- Lead time less than 4 weeks



- 15%-25% savings
- Typical payback 2-3 years

Financing Options

- **“Try before you buy” – conditional purchase**
- Capex: 3 year cashflow positive payment plan
- No-Capex: 5 to 10 year energy savings agreement

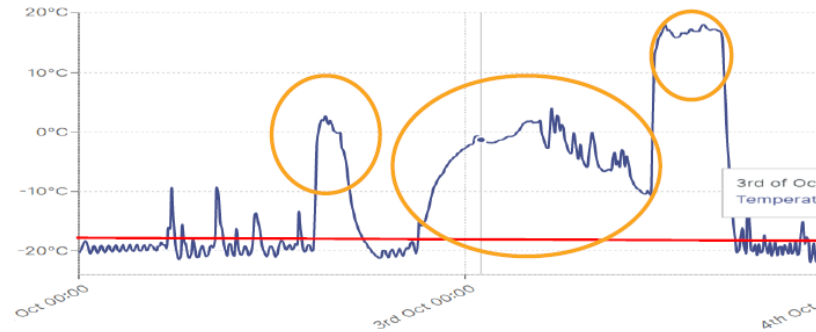
3. Tips: WIRELESS CHILL & FREEZER MONITORING



Easy to Install – No wiring
Deploy in a Day

EN12830 compliant sensors
(5 min readings)

Calibrated, accurate within 0.1°C



- Online access, alerts to any device
- Configurable to your areas, KPIs and needs
- Export data to your systems

Low cost, plans from 12 months to 5 years

KEY BENEFITS

- Evidence temperature compliance
- Identify inefficient defrost cycles
- Identify freezer malfunction
- Behaviour identification and tracking
- Predictive maintenance

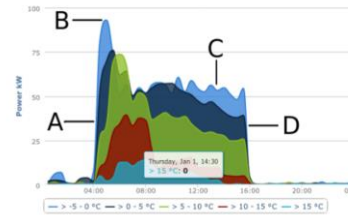
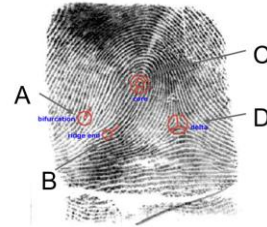
3. Tips – Proactive Energy Meter Monitoring

Proactive, scalable energy management advice



Electricity & Gas HH Meter data is read daily
(data collected via internet)

No hardware installed, we just need letter of authority to
access data



Our systems use
pattern recognition to
identify anomalies;
adjusted for weather
and expected events

We review the data daily and provide advice to avoid consumption and
spot adverse trends.

- £60-£90 per meter per year
- Provides alerts on anomalies, unexpected energy use
- Proactive - enable changes before your bill arrives
- Identifies savings and potential issues
- We can provide benchmarks, KPIs & trend information

TRY IT FOR 3 MONTHS WITHOUT COST

FREE HALF-HOURLY DATA & INITIAL FINDINGS

QUESTIONS



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