



COLD CHAIN ENERGY WEEK

COLD CHAIN FEDERATION SUPPORT FOR
BUSINESSES TO INCREASE THEIR ENERGY
EFFICIENCY

TOM SOUTHALL
POLICY DIRECTOR
COLD CHAIN FEDERATION



Cold Chain advisory services



COLD CHAIN
ENERGY



COLD CHAIN
COMPLIANCE



COLD CHAIN
INSIGHT

ENERGY WEEK RECAP

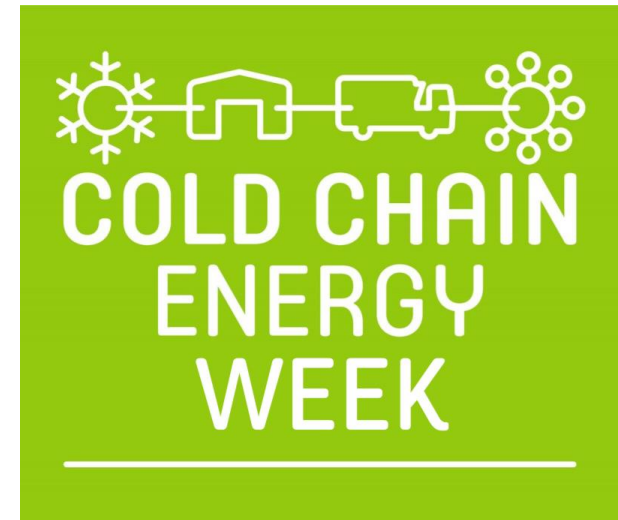
Day 1: UK IS REQUIRED BY LAW TO REDUCE GHG EMISSIONS

- Carbon zero by 2050
- Industry emissions reduction of 30% by 2030
- CCA commitments
- This presents a major challenge for the cold chain

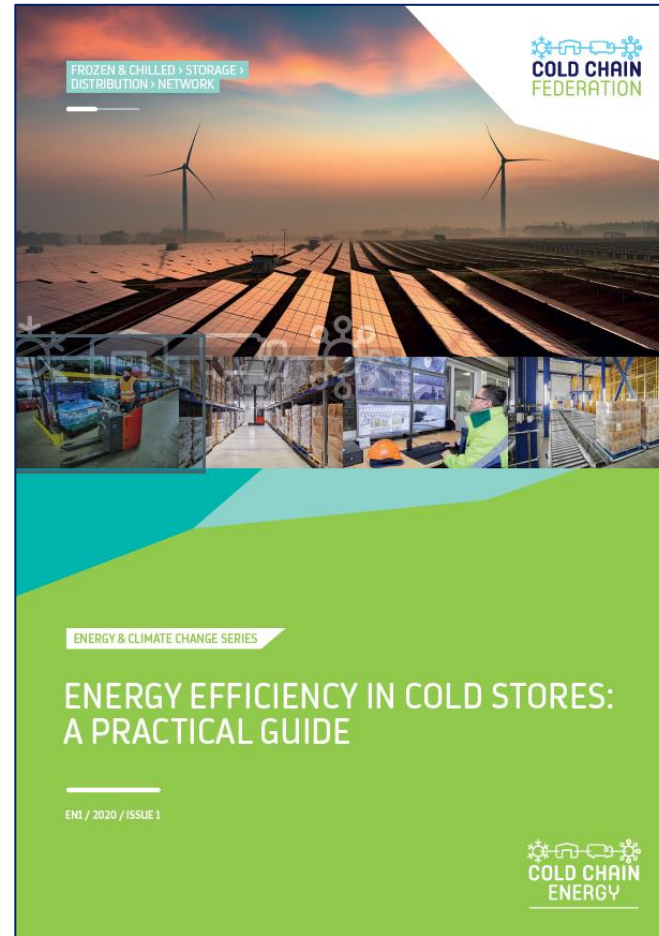
Days 2 & 3: LOTS OF OPTIONS FOR A COLD STORE OPERATOR

- Making existing infrastructure more efficient
- Harnessing renewable energy
- Smarter uses of energy
- Future innovations

The Cold Chain Federation recognises the challenge of managing and reducing energy use and GHG emissions and is committed to supporting members.....



Introducing....



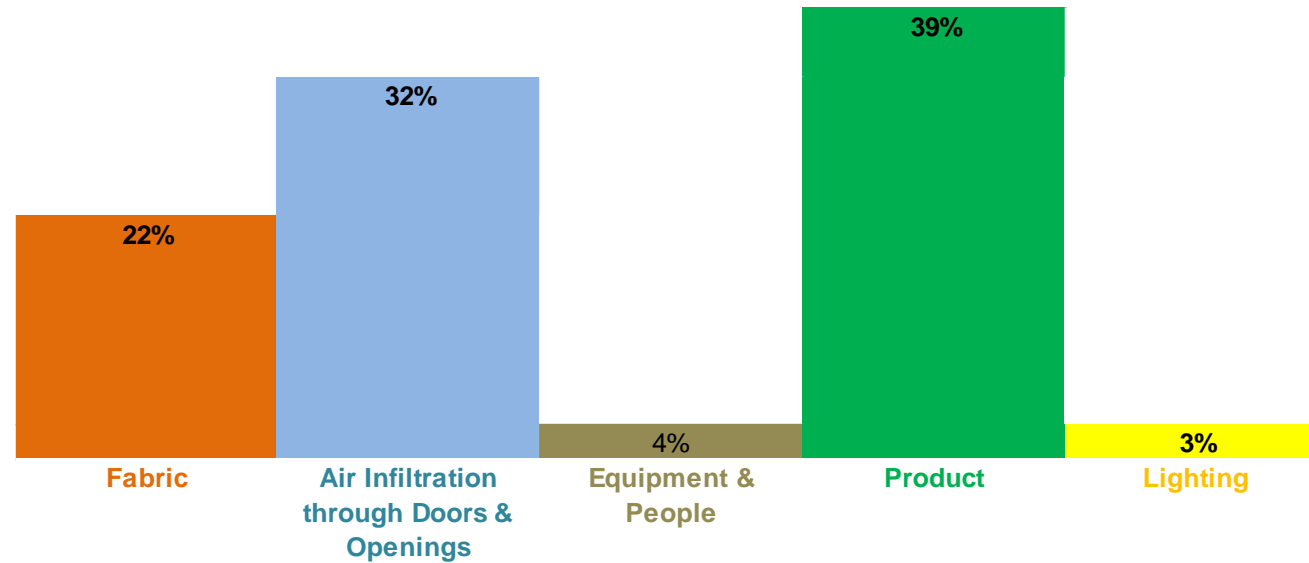
Structure

- Part 1: Current and future energy policy landscape, industry challenge and the need for action
- Part 2: The energy usage of the cold storage sector as a whole and recent progress under the CCA
- Part 3: Assessing the energy usage of a cold storage operation to identify priorities for action, build a business case and create an Energy Efficiency Strategy
- Part 4: Practical measures to reduce energy usage**
- Part 5: Challenging behaviours throughout the workforce to achieve efficiency measures**
- Part 6: Assessing the options for utilising renewable energy within a cold storage operation**



Part 4: Practical measures to improve energy efficiency

Cold store chamber heat loads



Source: Star Refrigeration

Part 4: Practical measures to improve energy efficiency

Refrigeration systems

- **Good Maintenance**
 - A 1°C increase in cold store temperature set point will typically reduce the power consumption by 3-5%.
- **Optimisation and smart monitoring**
 - A system with a smart monitoring system can reduce electrical costs by >15% per year.
- **Capital Investment**
 - Replacing outdated poor refrigeration control systems can reduce electrical cost >10% per year.



Part 5: Challenging behaviours

- Collective responsibility for energy efficiency
- Onsite measures to boost awareness and promote positive action
- Leading from the top
- Contractors



Part 6: Renewables

Solar PV



Source: My Power

Wind



Source: The Ice Co Storage & Logistics

Combine Heat and Power systems



Source: Agrivert

Timeline

Official launch at the Energy Summit on November 18th at the Midland Hotel, Manchester:

- Will be available digitally from August

Also coming soon:

- The road to 2050: a net zero cold chain

