COLD CHAIN FEDERATION

Renewable Energy in the Cold Chain

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ISO

Cost reduction

CO2

ROI

What is important to your business?

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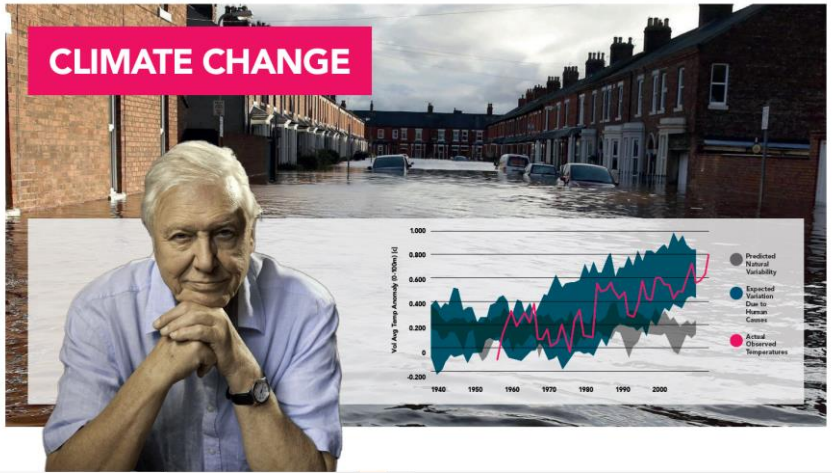
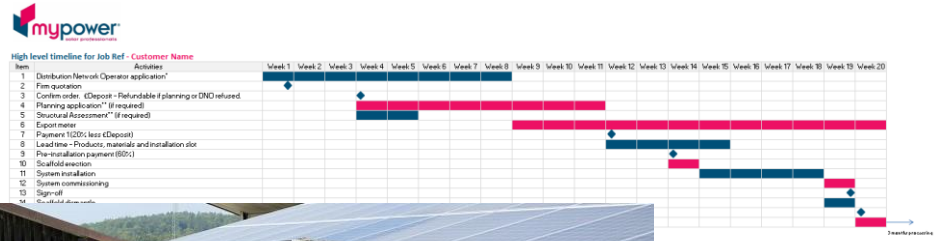
Why consider solar PV for your cold store?

- Clean energy
- Significant savings



- (Relatively) easy implementation
- Low maintenance



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Steps for a solar PV project

Initial budgetary ‘desktop’ assessment

- Identify best solution for your business needs

Identify potential constraints and agree solutions

- Grid application
- Structural survey

Solar site survey

- Electrical
- Installation plan
- O&M considerations

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Solar PV works well with the Cold Chain

System Size	0.25MW	1MW
	250kWp	1000kWp
Current annual electricity consumption (kWh)	1,000,000	4,000,000
Solar PV system cost	£150,000	£550,000
CO2 Emissions Avoided Tonnes / Annum	63.0	252.0
Simple unit cost of Solar electricity produced over 25yrs incl. O&M	4.34p/kWh	4.1p/kWh
Current unit cost of Grid supplied electricity	14.5p/kWh	
Estimated onsite usage of solar electricity.	90%	90%
Projected 1st year income and savings	£30,488	£121,950
First year return on capital	20.3%	22.2%
Payback Years	4.9	4.5
Savings and income after 25 years	£1,234,784	£4,939,137

High onsite consumption = Great commercial returns

20%+ Return On Investment

4-6 year payback

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Benefits

- Electricity at 4-5p per unit
- Provide a payback in 4-6 years
- Typical ROI of 15%+

Starting a renewable energy project

- Establish focus
- Identify potential constraints
- Installation survey

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