

Proposition 2: The Pembrokeshire Food Park SLES



Proposition 2 is centred around the Pembrokeshire Food Park, a planned development for a food distribution centre in Haverfordwest, alongside the planned 10MW Haverfordwest airfield solar PV, and PCC transport hub plans in Haverfordwest. There is strong interplay between the demand energy vectors (heating, cooling, electricity and hydrogen) and a significant opportunity to utilise local waste products to fulfil this demand.

As a new-build proposal, the food park could be designed to take advantage of no regret technologies, particularly anaerobic digestion, biogas cold climate heat pump and polyvalent heat pumps. These can be integrated via heating and cooling distribution networks.

Utilising excess PV generation to electrolyse hydrogen locally would be a cost-effective method of meeting some transport demand. If local hydrogen transport demand grows this proposition could form a local hydrogen transport hub.

2020 CAPEX with 66% Optimism Bias (£million)	2050 CO2 emissions (kg/kWh)	2020 LCOE (£/kWh)	MCA Score
24.1	0.003	0.074	3.9



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