



Local Energy Oxfordshire

IoW Mission Zero Energy Hub Presentation 14/11/22



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Project LEO: What, How, Why ?

What?

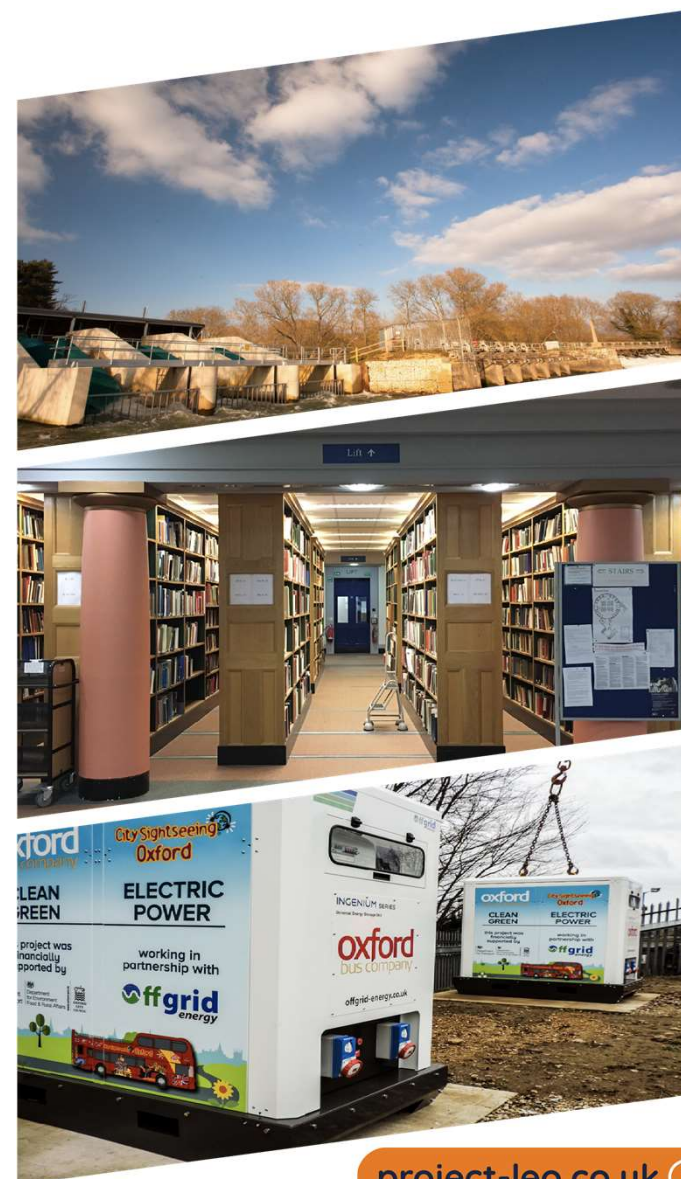
One of the UK's most ambitious, wide-ranging and innovative energy system projects that will help the Government achieve its legally binding commitment to achieve net zero emissions by 2050.

How?

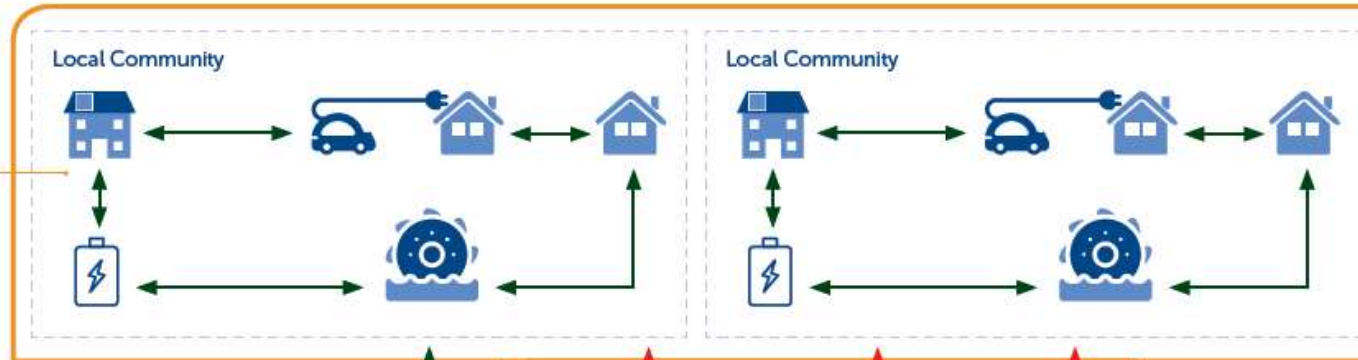
By running pilot projects, advancing capabilities and facilitating active participation in the creation of a smart, local balanced energy system to bring social, economic and environmental benefits for all.

Why?

A broad range of reliable evidence is required to support policies and investments that will create the technological, market and social conditions for successful systemic change.

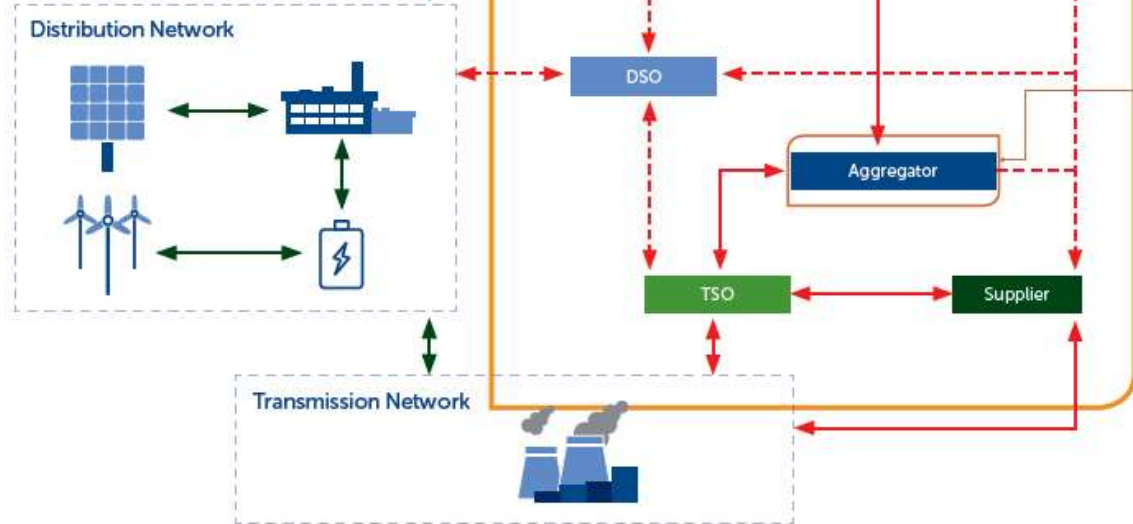


LEO enables local energy trading



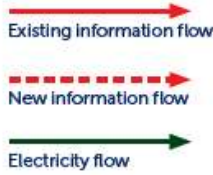
LEO delivers a mature, quantified, and engaged supply of flexibility within a regional bound

Adapted from the SSEN "Supporting a Smarter Electricity System – Our Transition to DSO" paper



LEO develops the interaction between marketplace operators

TRANSITION delivers the data exchange requirements and trading opportunities for a flexibility market.



Project LEO Whole System

DSO Market
Development



Investable
Business
Models



Skilled
Community
of People



Trialling
Flexibility



Mapping for
Local Area
Energy
Planning



Pre Trial Learning

Smart Tech

Learning from Battery Configuration to Building Management Systems. Automation for scheduling flexibility and LV monitoring



Smart Markets

Learning on baselining, and pricing. Market Stimuli package requirements for fledgling markets. DSO Services and Peer to Peer innovation. ESO/DSO Coordination, unintended consequences



Smart People

Learning from the consortium, generating and sharing knowledge. Communicating a systems project. Zero Carbon Oxford Partnership.





TRIALLING SUSTAIN EXPORT PEAK MANAGEMENT (SEPM) EVENT

W2

4 ASSETS WERE PAID FOR PEER TO NETWORK (P2N) SERVICES IN MAY

2 ADDITIONAL ASSETS PARTICIPATED IN MEL SERVICE (PEER TO PEER)

5 ASSETS WERE PAID FOR P2N SERVICES IN JUNE

W9

9 ASSETS WERE PAID FOR P2N SERVICES IN JULY

W13

6TH BULK SUPPLY POINT ADDED

FIRST MIC TRADE

1

W15

TRIALLING DAY AHEAD SERVICES FOR DYNAMIC AND SECURE

HIGHEST NUMBER OF BIDS (13)

HIGHEST SEPM BID - 500K WH

W19

1st BLOCK

BATTERY, EV TO GRID AND DEMAND RESPONSE INTRODUCED

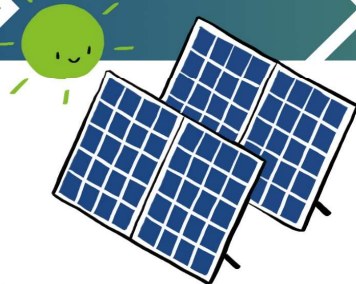


W3

2 ASSETS PARTICIPATED IN MAXIMUM EXPORT CAPACITY SERVICE

2nd BLOCK

SOLAR PV INTRODUCED



3rd BLOCK

THIRD PARTY ELECTRIC VEHICLE INTRODUCED



W11

SEPM BID FROM EXTERNAL PARTICIPANT

4th BLOCK

NEW SOFTWARE INTERFACE



INTERFACE BETWEEN MARKET PLATFORMS COMPLETED FOR PICLO INTEGRATION

W14

EXTERNAL PARTICIPANTS BID IN SPM AUCTION

W16

5th BLOCK

DOMESTIC ASSETS INTRODUCED



W18

12 ASSETS COMPLETED FINANCIAL TRANSACTIONS FOR P2N SERVICES IN AUGUST

Any Questions?



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