

Cornwall Local Energy Market

Flexibility Workshop

13 February 2020



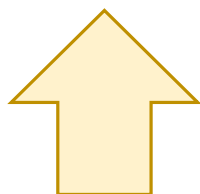
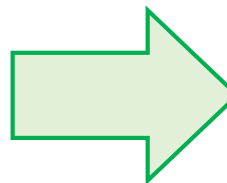
Cornwall LEM overview

Platform

- V1 – ‘Quote and tender’ DNO flex procurement market
- V2
 - Auction-based market for local flex for constraint management
 - DNO & ESO buyers
 - Auto-clearing
 - API + UI
 - Designed for optimal system value

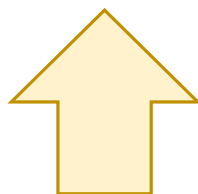
Research

- Regs and policy barriers
- Quant. of systems benefits
- LEM value proposition



Business

- CHP, storage, renewables, DSR
- 6 installations
- 5,600 tCO2e saved / yr
- 100 energy monitoring grants



Consumers

- 100 homes
- Solar PV and Storage
- Micro-aggregation to LEM platform

centrica

N-SIDE
OPTIMIZING YOUR DECISIONS

nationalgridESO

WESTERN POWER DISTRIBUTION
Serving the Midlands, South West and Wales

Imperial College
London

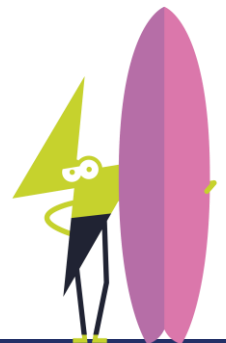
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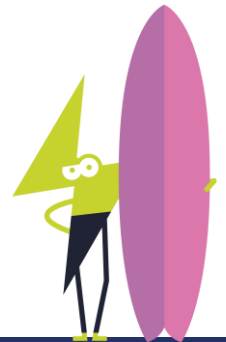
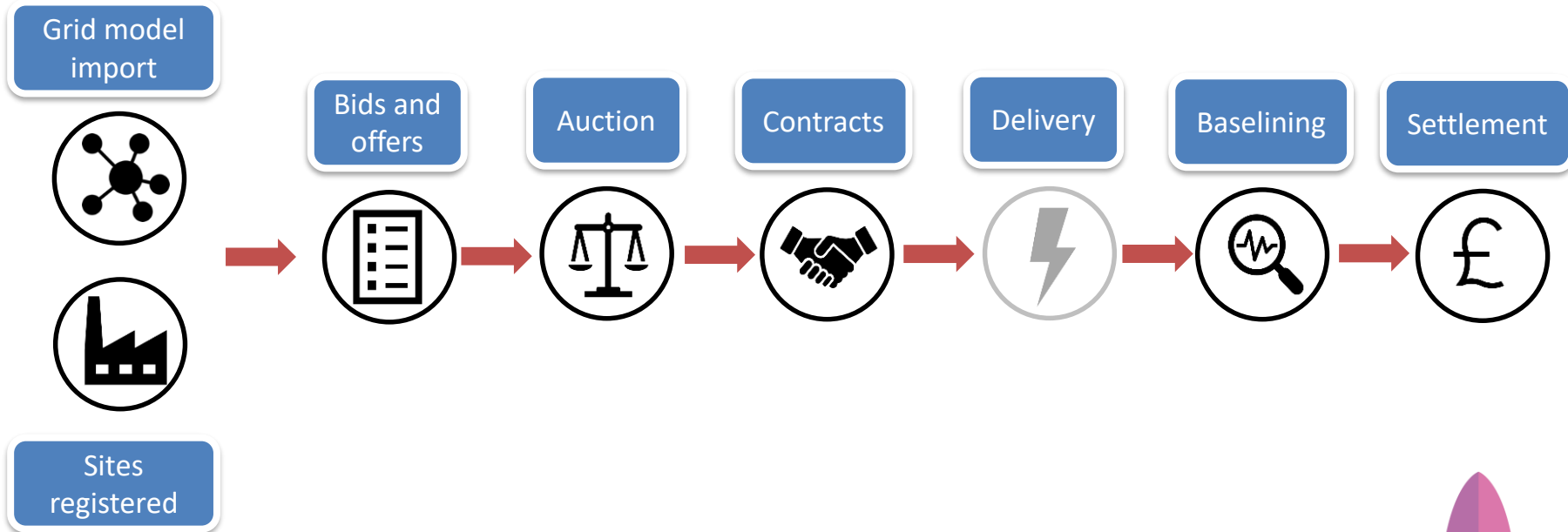
LEM explained

Key capabilities of the LEM platform



More than auctions

The platform manages the end-to-end process



T/D Co-ordination

Informational and within the Algorithm

CORNWALL LEM
YOUR FLEX PROCUREMENT
DER ACTIVITY
TSO / DNO COORDINATION
UPCOMING AUCTIONS
AUCTION RESULTS

Buyer Admin ▾

- Dashboard
- Create Bid
- Manage Bids
- Manage Contracts

Our partners ▾

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NATIONAL GRID ACTIVITY

OPTIONS & FILTER

Delivery date range
Today to Wed 08/07/20

RESERVE BIDS
RESERVE CONTRACTS

2 TSO/DNO conflicts on 2 days in 2 locations

National Grid bids by delivery date

This week	
3,5 MW ↓	Fri 10/01/20
17:00 - 20:00	
3,5 MW ↓	Sat 11/01/20
17:00 - 20:00	
3,5 MW ↓	Sun 12/01/20
17:00 - 20:00	
This month	
8 MW ↑	Wed 15/01/20
10:00 - 16:00	
3,5 MW ↓	Fri 17/01/20
17:00 - 20:00	
Future	
3,5 MW ↓	Sun 10/05/20
17:00 - 20:00	

LEGEND

- Potential conflicting bids/contracts

Demand headroom

- Less than 10%
- 10% - 25%
- 25% - 100%

Contract Types

- B GSP
- B BSP
- P Primary
- DFR

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Platform trials

DSO and ESO Activity

~300MWh

Reserve contracts target

~150MWh

Utilisation contracts target

201 MWh

Reserve contracts secured to date

90 MWh

Volume Delivered to Date

11 locations so far:

7 Primary Substations

3 BSP's

1 GSP

Seller Activity

25MW+

Registered Flexibility in Cornwall

41 Dispatches

Including residential battery VPP

End-to-End Platform Functionality

107 Auctions Run

