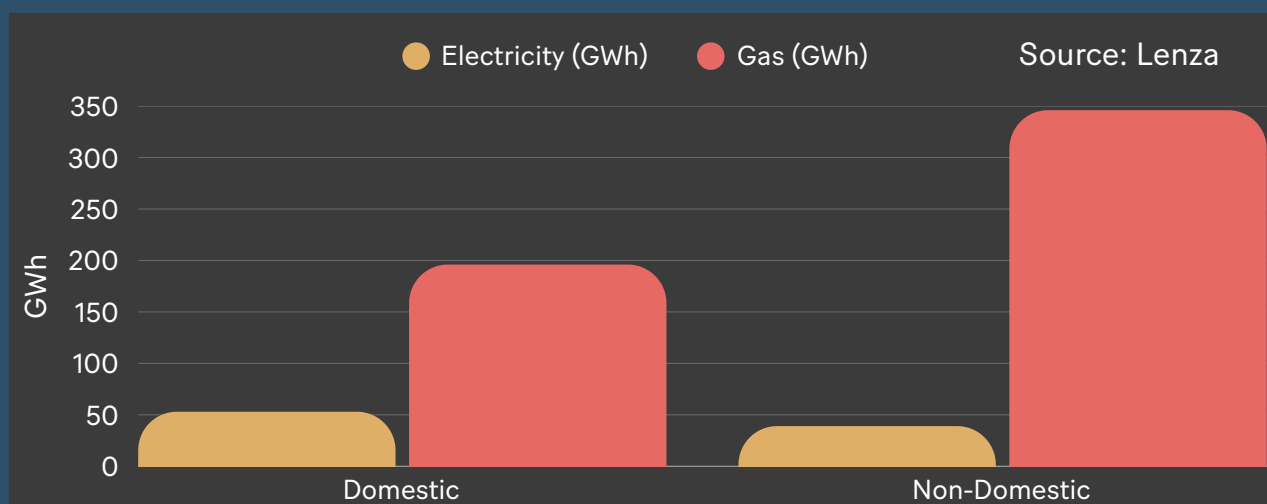


Cowley Local Data Pack

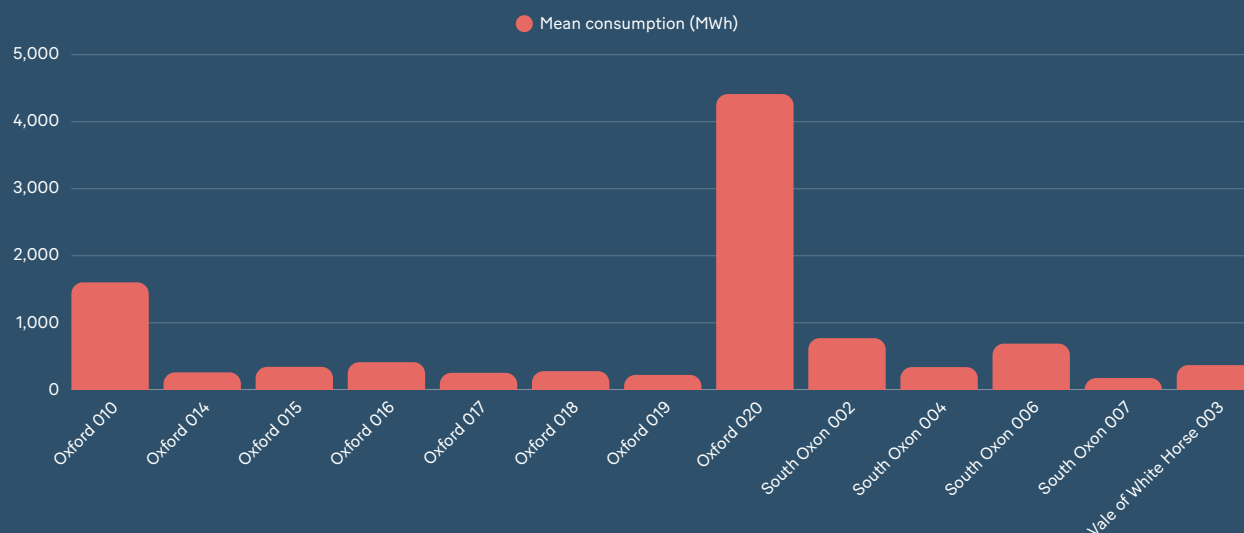


Current annual energy demand

	# meters	electricity	gas
domestic	15,728	53 GWh	196 GWh
non-domestic	2,690	39 GWh	346 GWh
total	18,418	92 GWh	542 GWh

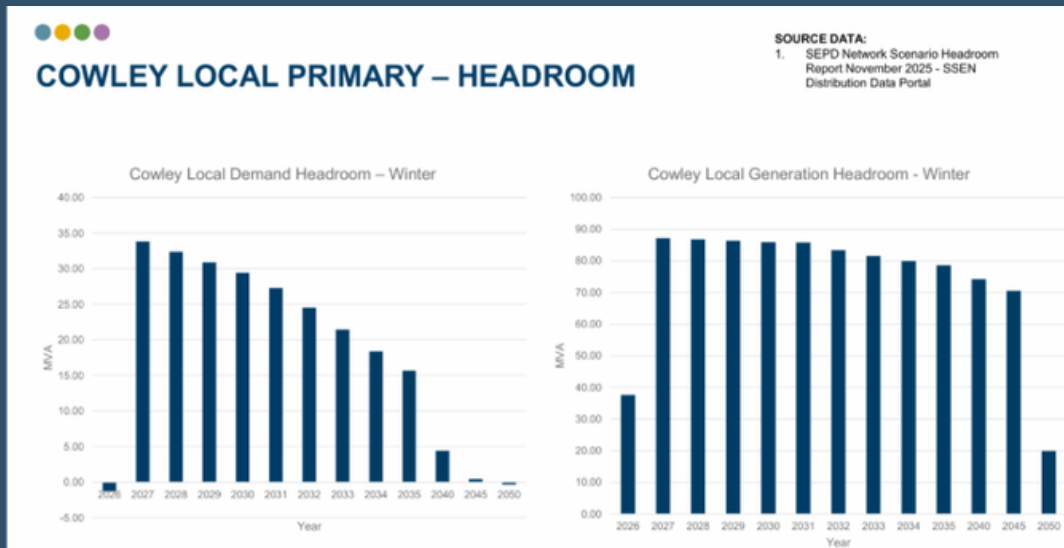


The distribution of gas demand by Non-domestic customers by MSOA is highly skewed



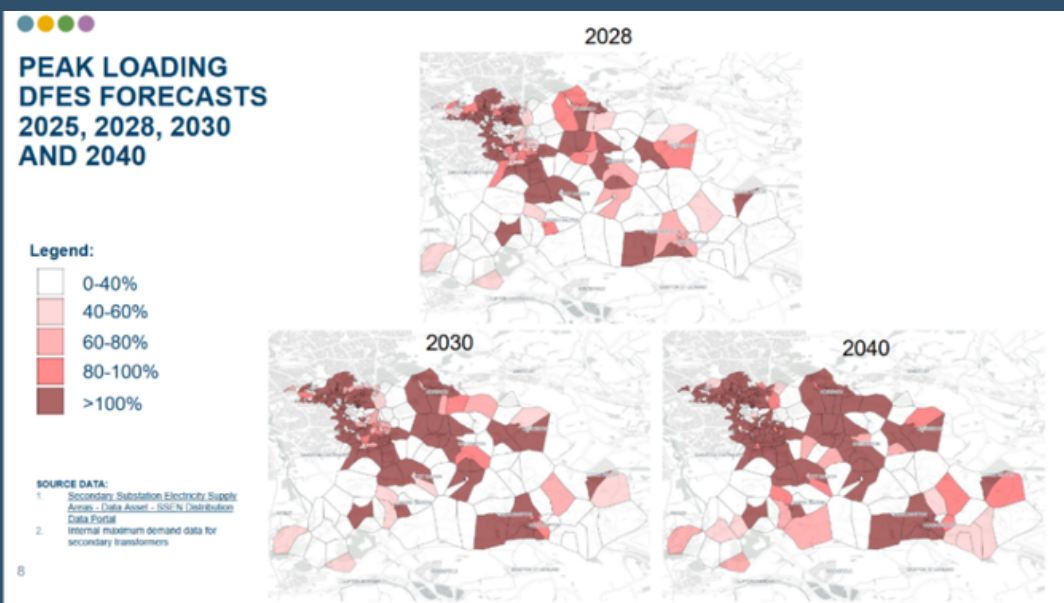
Capacity

Primary substation capacity plans



DFES secondary substation capacity modelling

Analysis from DFES showing secondary substations getting increasingly overloaded



Existing LCT infrastructure

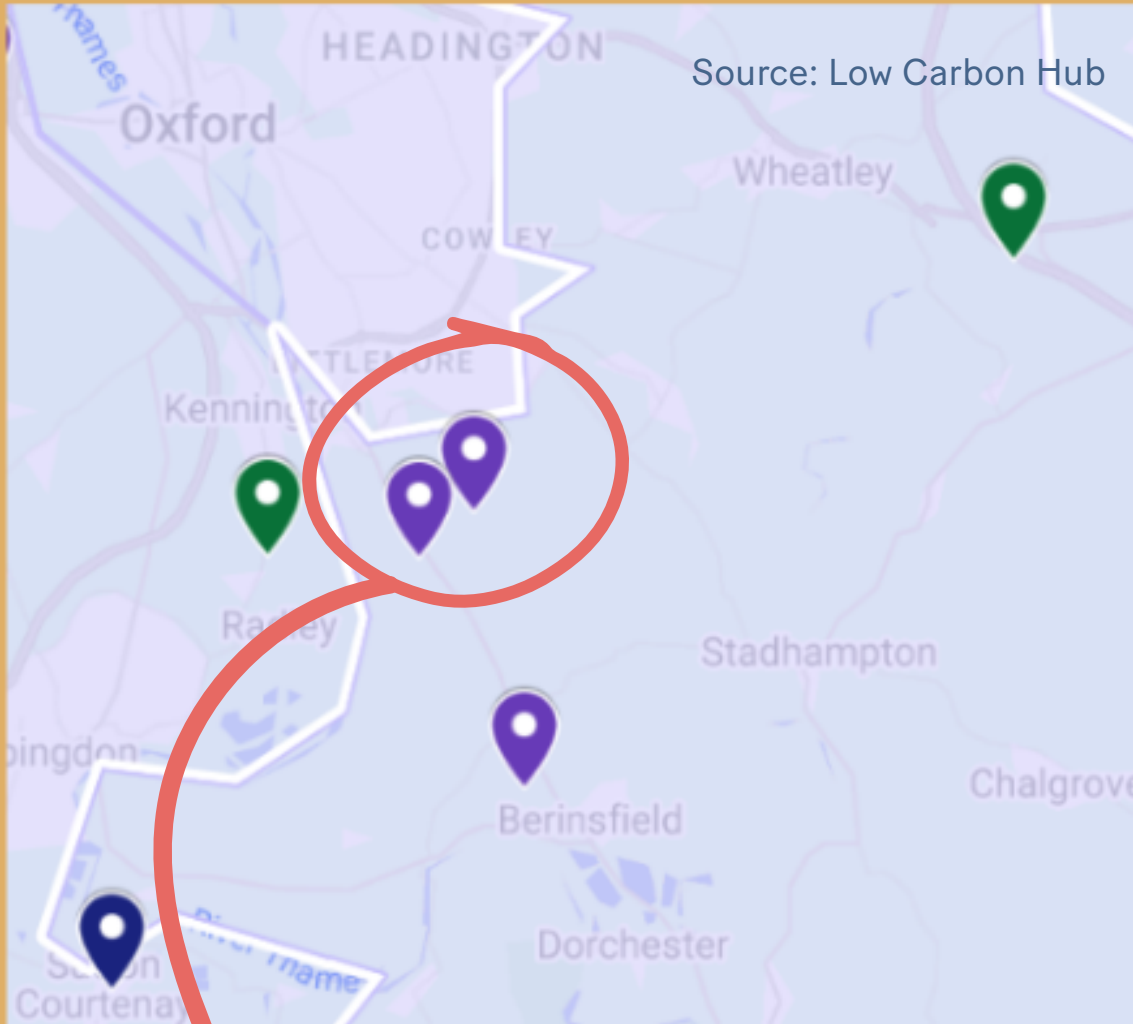
Asset	count	Capacity (kW)		Conversion factor (per kW per year)	Total Generation (GWh)	Form
PV	474	2649		900	2	Electricity
HP	164	1193		3500	4.2	Heat
Battery	17	97				
PV/Battery	85	626				

Source: Lenza. PV Conversion factors: from European Commission PVGIS, heat from MCS data

Potential Rooftop PV

	# Properties	% Properties	Capacity (MW)	Size per property (kW)	Total generation (GWh)
domestic	8,175	75	40.9	5	34.2
non-domestic	629	71	46.5	74	38.5
total			87.4		72.7

Proposed groundmount solar and battery projects

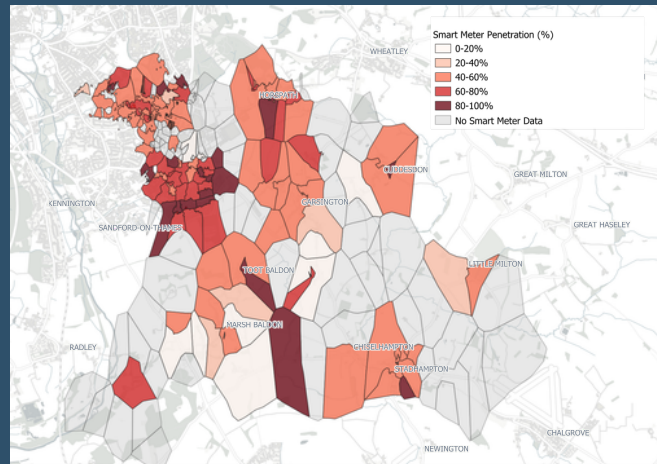


Low Carbon Technology facilities within Cowley Local

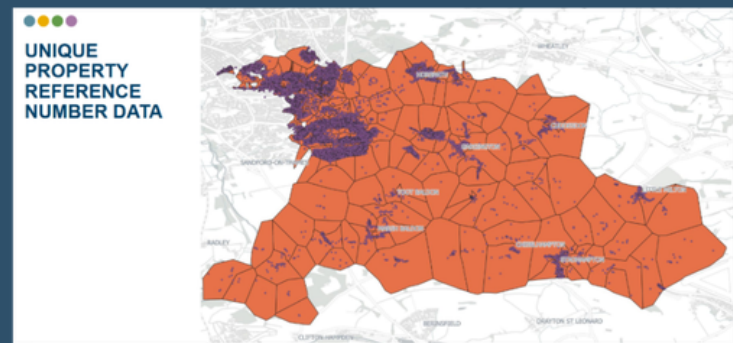
Smart meter uptake

Smart meters have the dual role of being:

- the gateway to a consumer flexibility model
- the route to lower cost energy bills through tariff choice

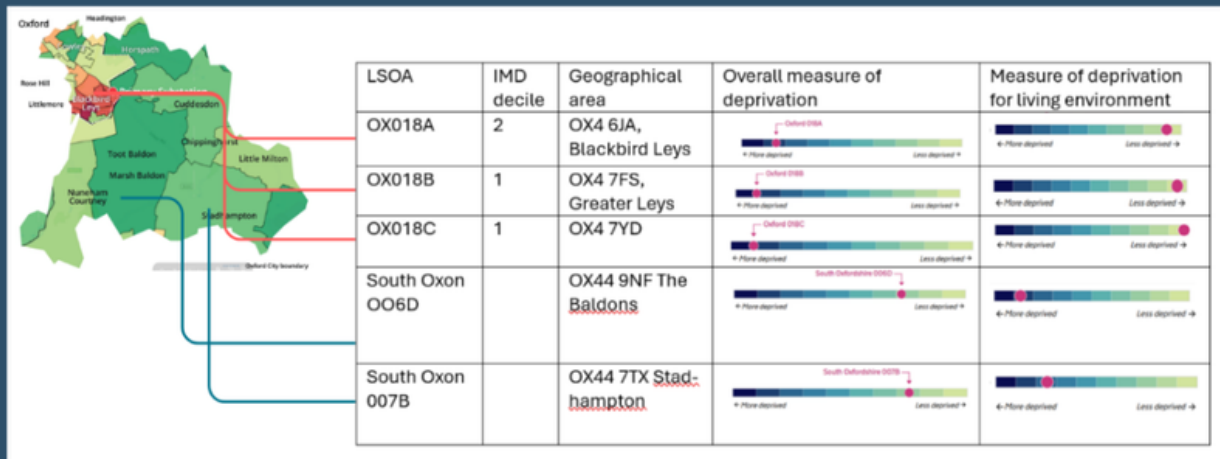


Cowley Local map showing the location and density of housing through the UPRN data.



Number of smart meters in the primary	8,253
Number MPAN in primary	13,525
Current level of penetration	59.6%
DEZNZ target (2025) domestic households	74.5%
Additional smart meters needed to achieve DEZNZ target	1,823

Fuel poverty and deprivation



Overall measure of deprivation

- income (22.5%)
- employment (22.5%)
- education (13.5%)
- health (13.5%)
- crime (9.3%)
- barriers to housing and services (9.3%)
- living environment (9.3%)

Living environment deprivation

Internal

- Decent homes standard
- EPC ratings
- Access to outdoor space

External

- Air quality
- Road traffic accidents
- Noise pollution

Fuel poverty

Data set from DESNZ (updated 2023) using the LILEE metric of fuel poverty.

