



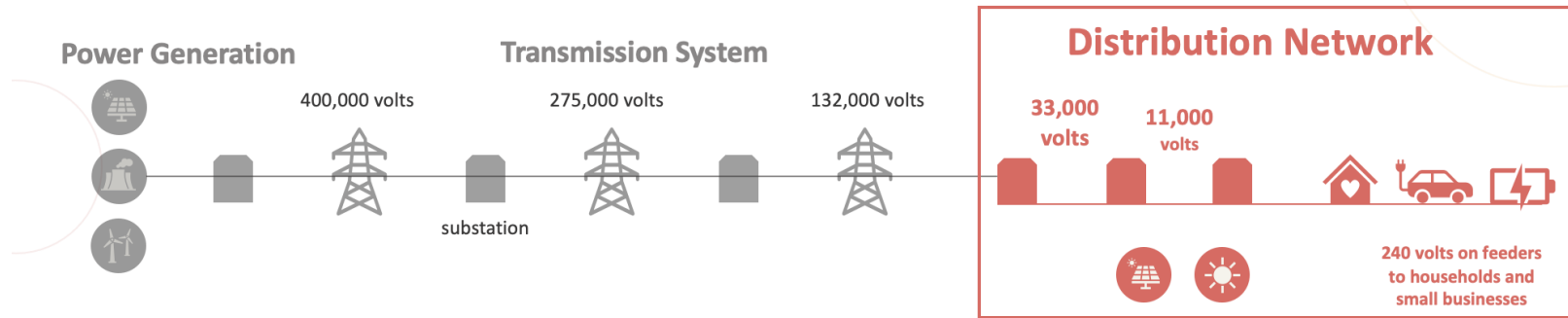
How does network innovation enable and enhance customers' transition plans?

30 October 2024



Understanding the challenge

Challenge 1 Heat and transport will need to transition, largely to heat pumps and electric vehicles.



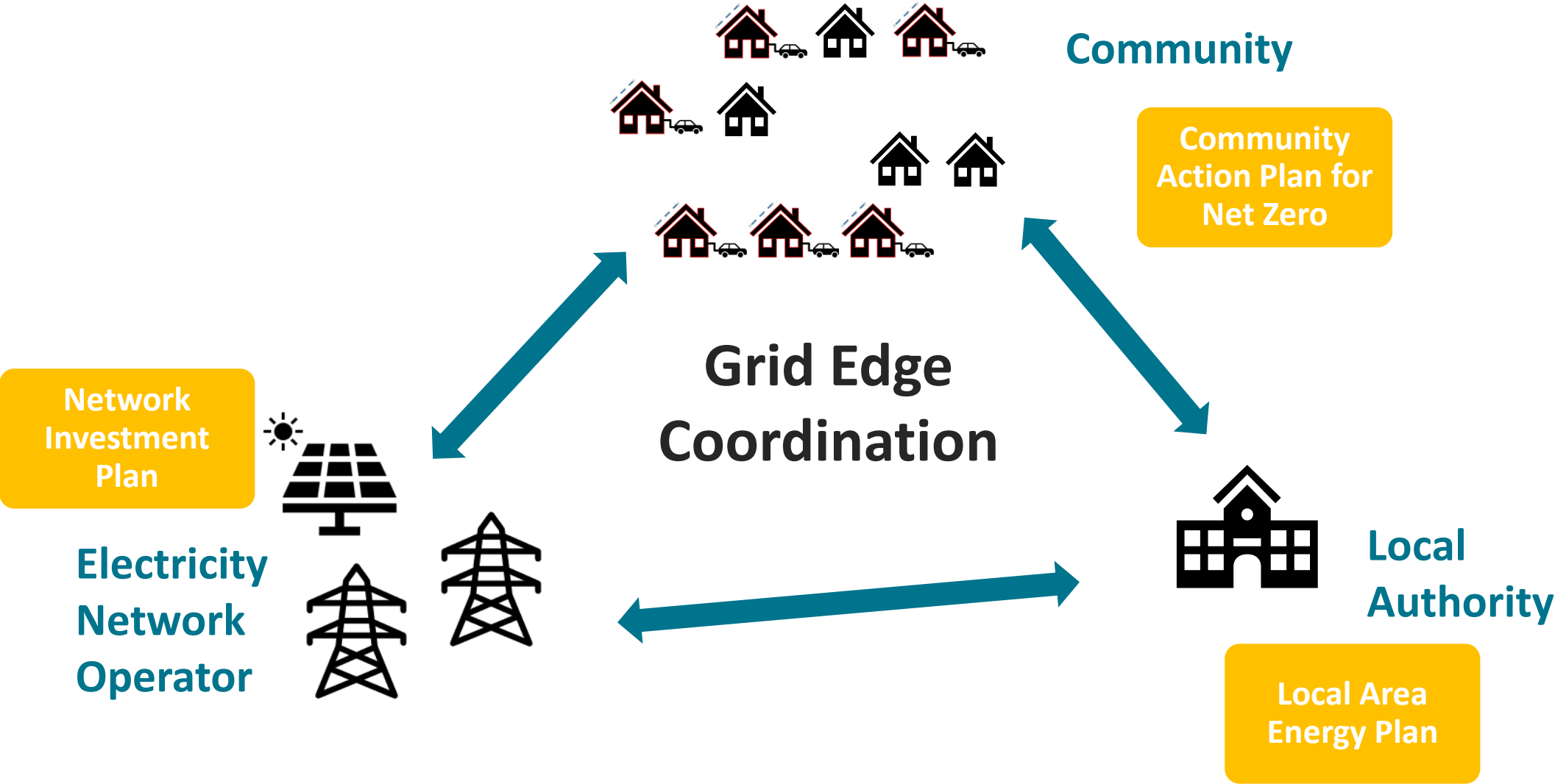
Challenge 2 To minimize the increase in electricity use and reduce the cost of network investment

The 2030 Grid Edge Challenge - SEPD

EVs	1.5m
Heat Pumps	525,000
Primary substations	900
Secondary substations	60,000
LV Networks	300,000



Grid Edge Coordination





Grid Edge Coordination

Strategic coordination

- Regional-level spatial, transport & energy network planning
- Interact with RESP

DELIVERY GAP

Tactical coordination

- Provide expertise to communities
- Mediate/feedback learning to strategic coordination
- Create Neighbourhood-level LAEPs
- Net Zero Delivery support service

Net Zero Delivered

Local Area Energy
Planning Governance

Digital LAEP
Platform

Grid Edge
Coordinator



Grid Edge Coordination

Neighbourhood-level LAEP

Creation of plans

Facilitating implementation

Demand Reduction:

Scale up retrofit & develop "smart retrofit".

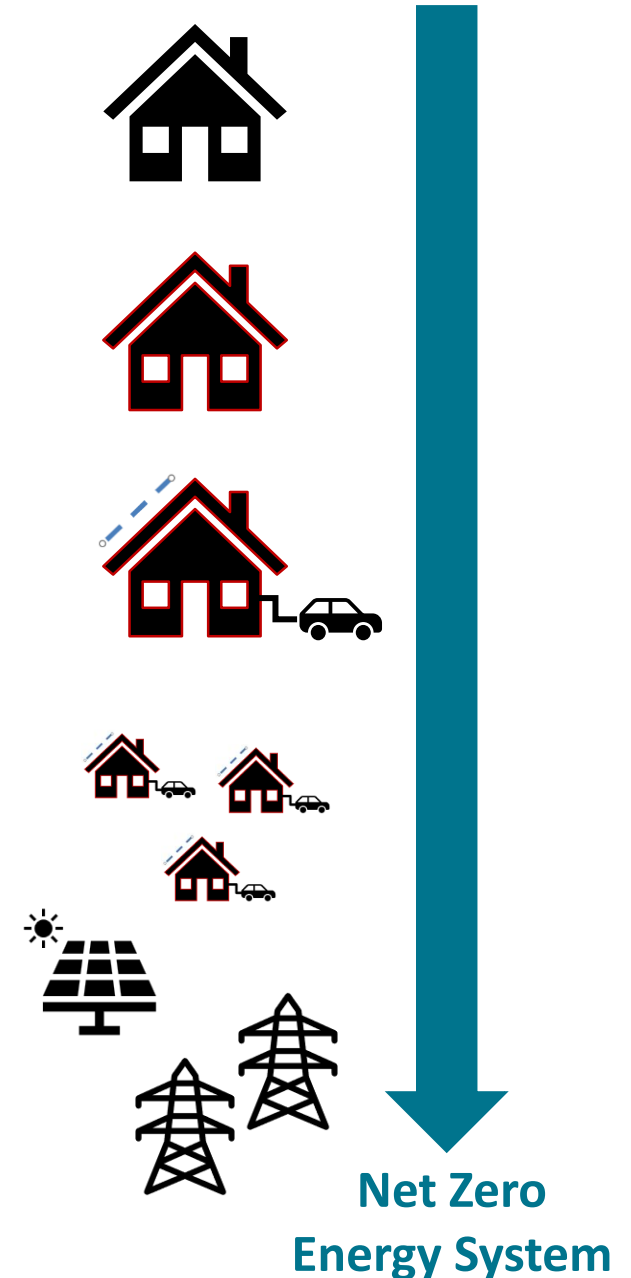
Optimise energy use within buildings.

Smart Community Energy Schemes:

A finance mechanisms for local energy trading.

A community energy information dashboards.

Coordinated remote control of low carbon technology.





LOW CARBON HUB **STRATEGIC PLAN**



2024 to 2035

We are a social enterprise that's out to prove we can meet our energy needs in a way that's good for people and good for the planet



Just and Fair Hub: benefits by 2050

Renewables portfolio

Community benefit funds sufficient to deliver social purpose

Partnership
Solar PV
GB Energy



Commercial

Community Benefit



Domestic and SME demand reduction

c. 23,000 households brought out of fuel poverty

Retrofit Strategy

c. 18,000 SME premises anchor SCES peak management

SME OxFutures Fund

Grid Edge Coordination

Orderly, efficient transition of the HV and LV network nationally

Local Area Energy Planning

Collaborative leadership via CAPZeros ensures fairness

Smart Community Energy Schemes available for all