



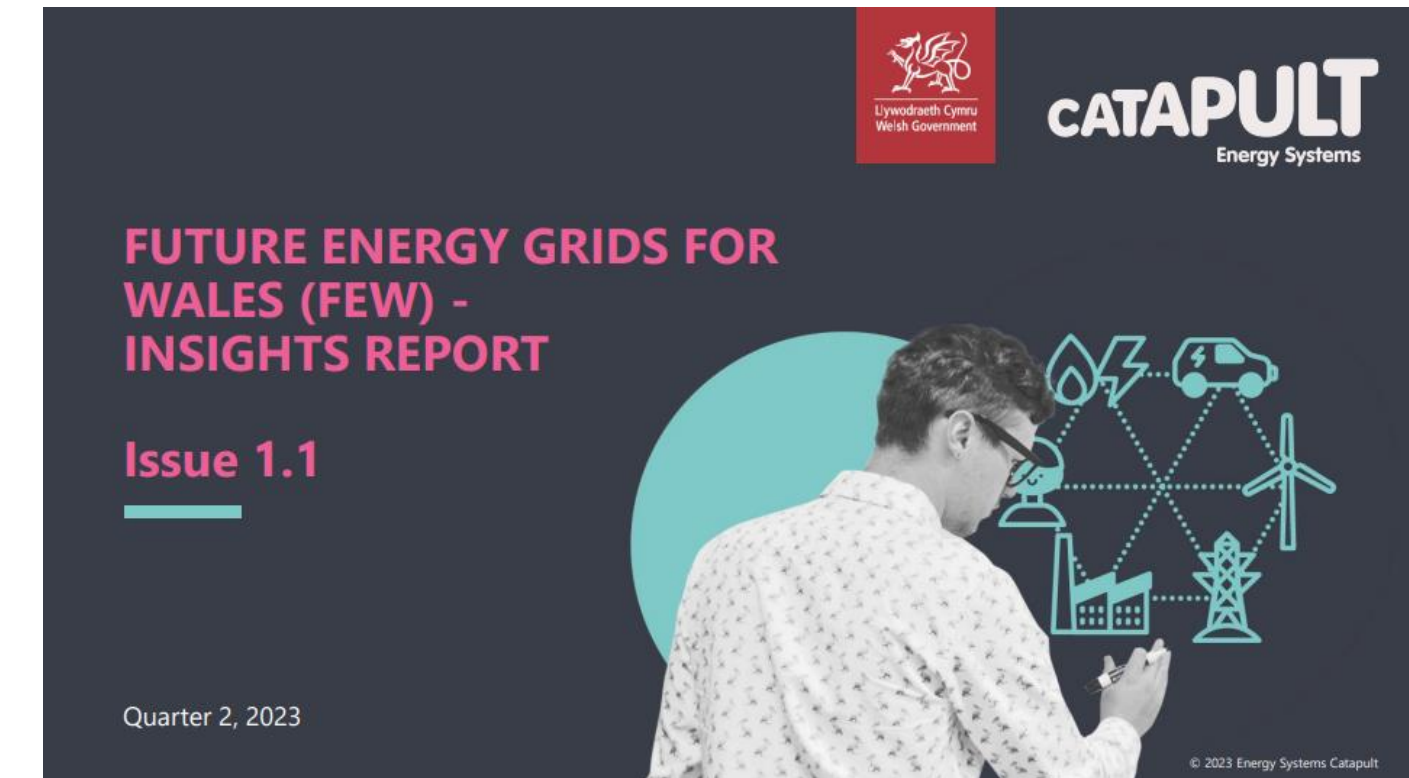
Cynllunio dyfodol ynni Canolbarth Cymru

Planning the energy future for Mid Wales

Paratoi ar gyfer Sero Net / Preparing for Net Zero

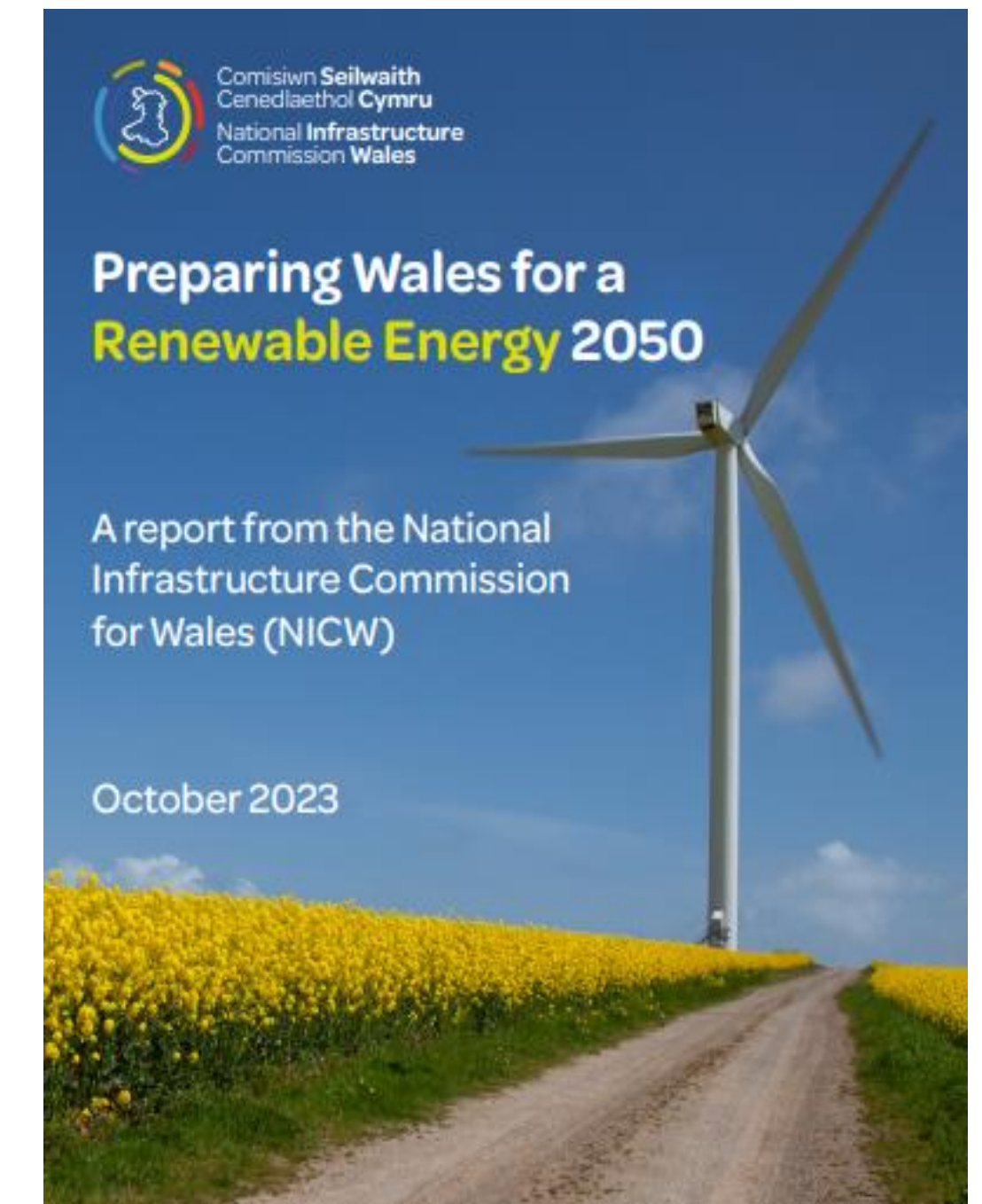
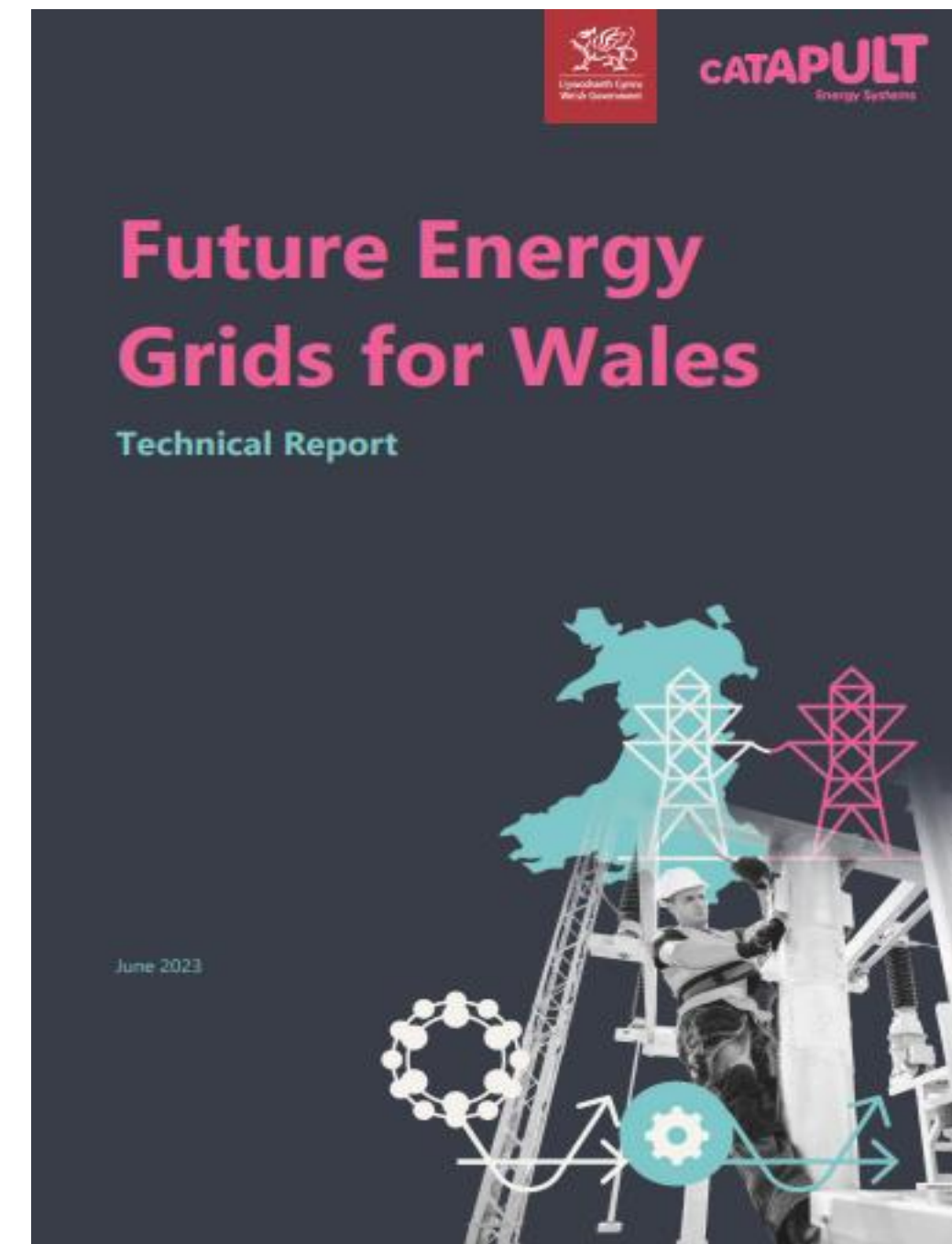
Gweithio gyda'n gilydd i baratoi rhwydwaith y dyfodol:

1. Grŵp Rhwydweithiau Ynni yng Nghymru, Llywodraeth Cymru
 - NGET; SPEN; NGED. NGGT; WWU
 - Y Catapwlt Systemau Ynni – Gridiau Ynni'r Dyfodol ar gyfer Cymru
 - Adroddiad Gwybodaeth ac Adroddiad Technegol
2. Comisiwn Seilwaith Cenedlaethol Cymru
 - Paratoi Cymru ar gyfer Ynni Adnewyddadwy 2050



Working together to prepare the network of the future:

1. Welsh Government Energy Networks in Wales Group
 - NGET; SPEN; NGED. NGGT; WWU
 - Energy Systems Catapult - Future Energy Grids for Wales
 - Insights Report & Technical Report
2. National Infrastructure Commission for Wales
 - Preparing Wales for a Renewable Energy 2050



“Rydyn ni’n gwneud newidiadau cyflym i wella sut mae cwsmeriaid yn cysylltu â’r grid ar lefel dosbarthu”

“We are making rapid changes to improve how customers connect to the grid at distribution level”

Aelodau’r SCG

- Uwch gynrychiolwyr cwmnïau’r rhwydwaith trawsyrru a dosbarthu trydan
- Gweithredwr y System Drydan (ESO),
- Yr Adran Diogelwch Ynni a Sero Net
- Ofgem

1. Diwygio ciw cysylltu’r rhwydwaith dosbarthu

- Y cyntaf i fod yn barod, y cyntaf i gael ei gysylltu
- Glanhau ar ddechrau’r gwanwyn

2. Newid sut mae Trosglwyddo a Dosbarthu yn cydlynu cysylltiadau

- Ffiniau clir a chyson
- Cydlynu’r ciw

3. Mwy o hyblygrwydd i gwsmeriaid sy’n dosbarthu cyfleusterau storio

- Capasiti hyblyg

Members of the SCG

- Senior representatives of electricity transmission and distribution network companies
- The Electricity System Operator (ESO),
- The Department for Energy Security & Net Zero
- Ofgem

1. Reforming the distribution network connection queue

- First ready, first connected
- Spring clean

2. Changing how Transmission and Distribution coordinate connections

- Clear & consistent boundaries
- Co-ordinating the queue

3. Greater flexibility for storage distribution customers

- Flex capacity

Senarios Dosbarthu Ynni'r Dyfodol / Distribution Future Energy Scenarios

Ein rôl yw cynllunio ein rhwydweithiau dosbarthu i hwyluso eu hamcanion a'u dewisiadau datgarboneiddio, a helpu i alluogi eu taith tuag at sero net.

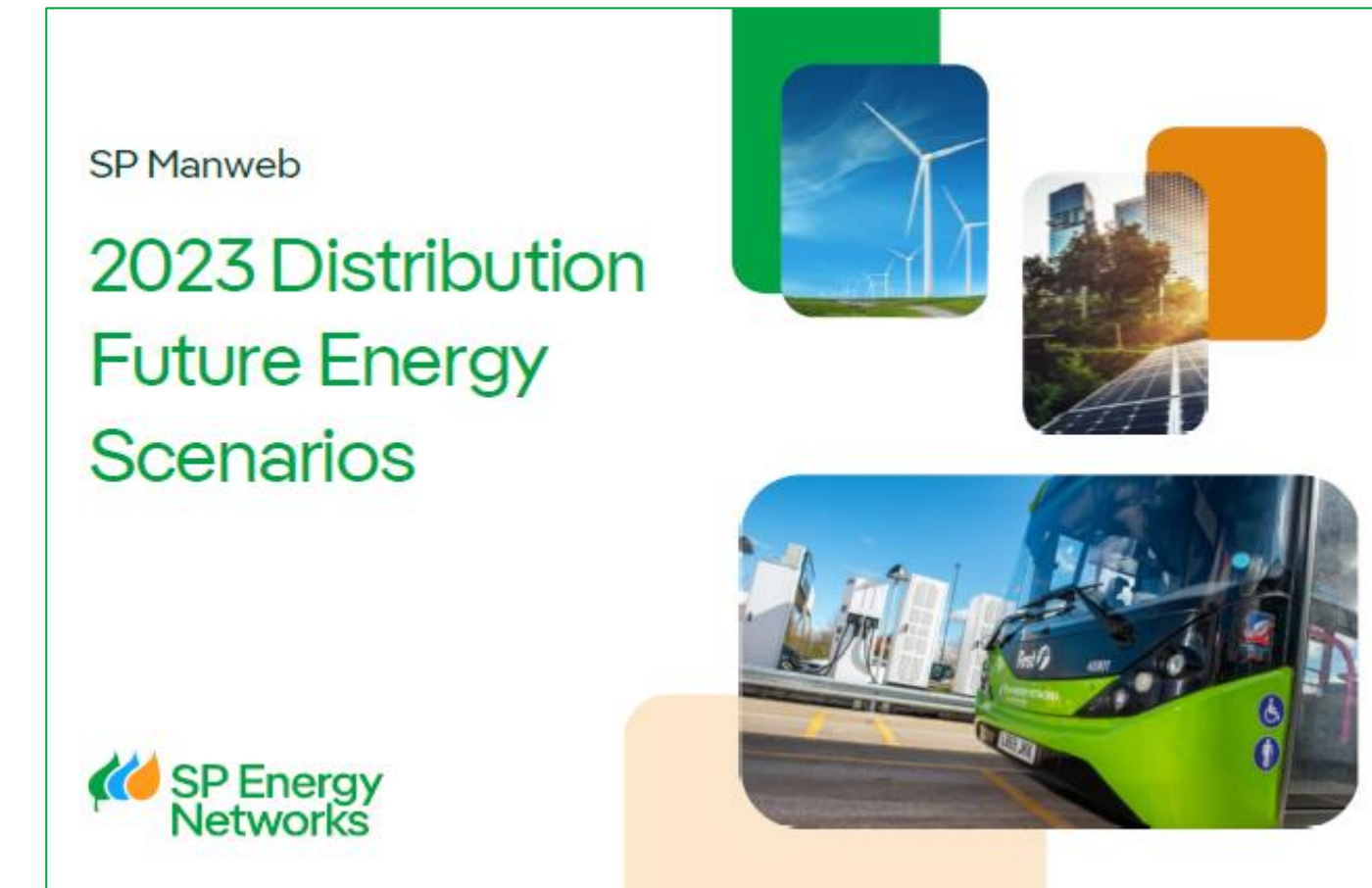
Er mwyn cyflawni hyn, mae angen i ni ragweld a deall gofynion trydan newidiol ein cwsmeriaid.

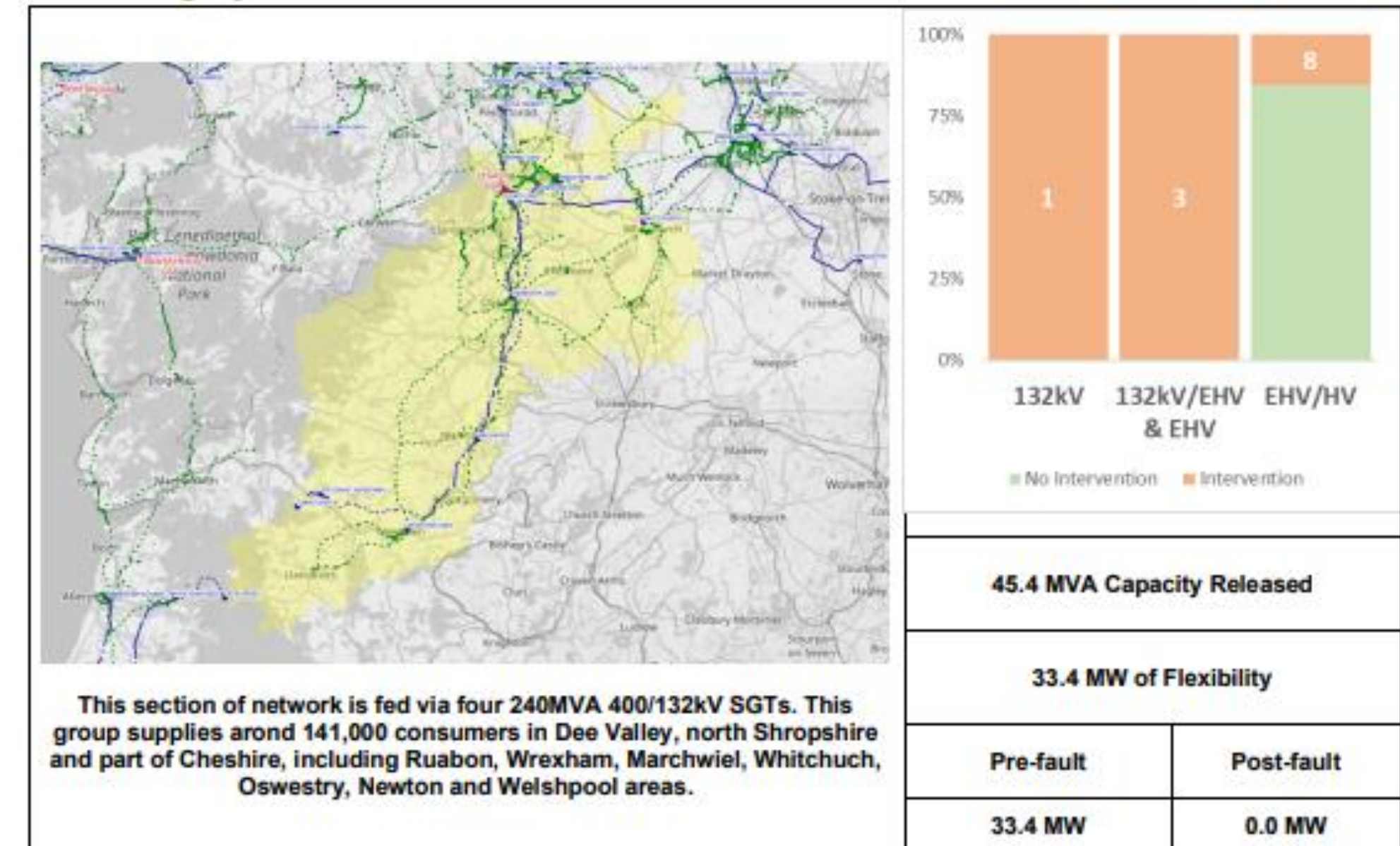
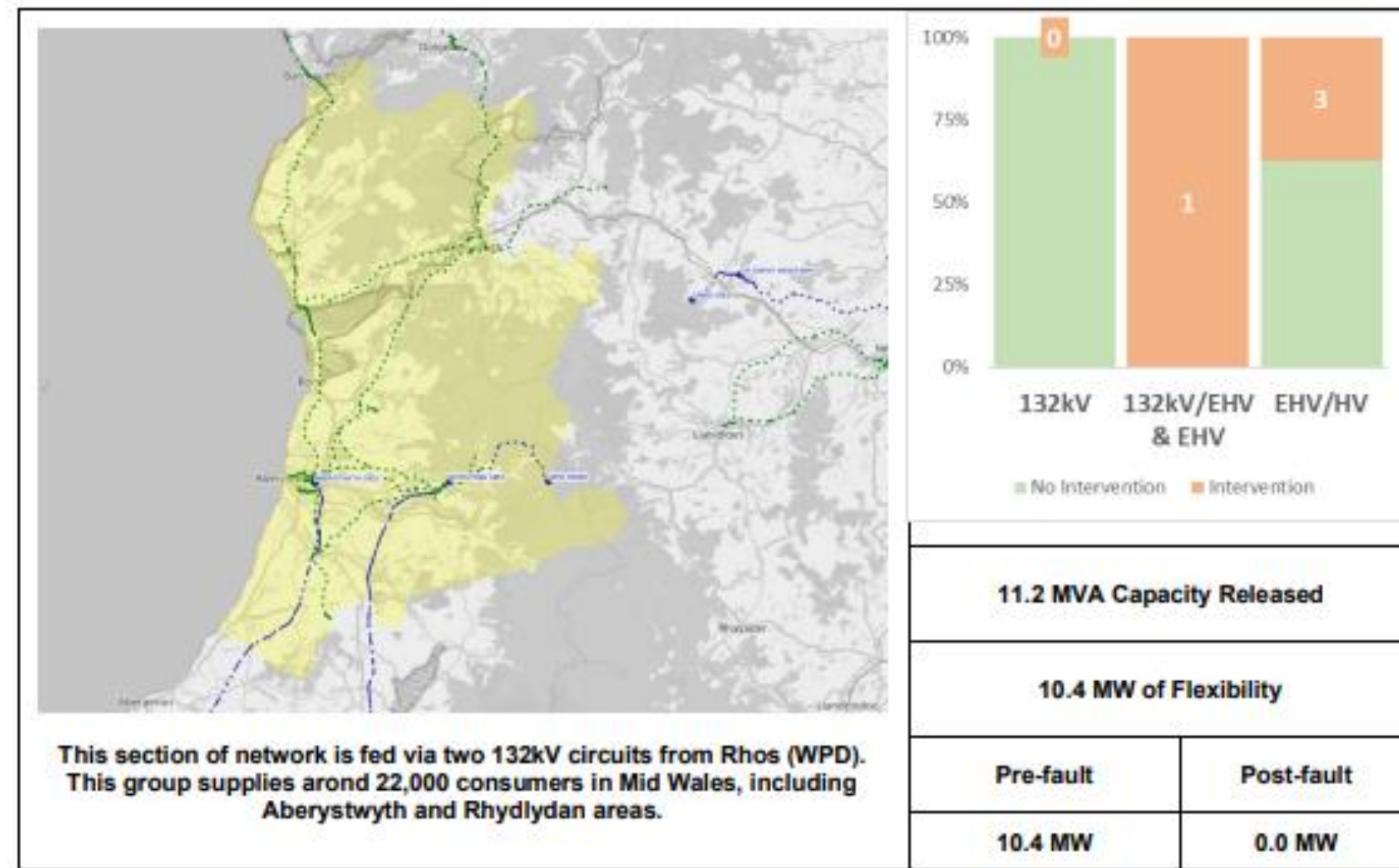
I wneud hyn, rydym yn datblygu Senarios Dosbarthu Ynni'r Dyfodol (DFES), sef rhagolygon ar gyfer amrywiaeth o fetrigau ar gyfer y galw gan gwsmeriaid a'r lefelau cynhyrchu hyd at 2050.

Our role is to plan our distribution networks to facilitate their decarbonisation objectives and choices, and to enable their journey to Net Zero.

To achieve this, we need to forecast and understand our customers' changing electricity requirements.

We develop **Distribution Future Energy Scenarios (DFES)** to do this, which are forecasts for a range of customer demand and generation metrics up until 2050.





Nod Cynllun Datblygu'r Rhwydwaith yw rhoi rhagolwg tymor canolig i'n rhanddeiliaid.

Mae'n rhoi manylion ynglŷn â'r capasiti sydd ar gael yn y rhwydwaith i ddarparu ar gyfer twf yn y galw a'r lefelau cynhyrchu yn y dyfodol, yn ogystal â'n hymyriadau arfaethedig sy'n cynyddu capasiti'r rhwydwaith.

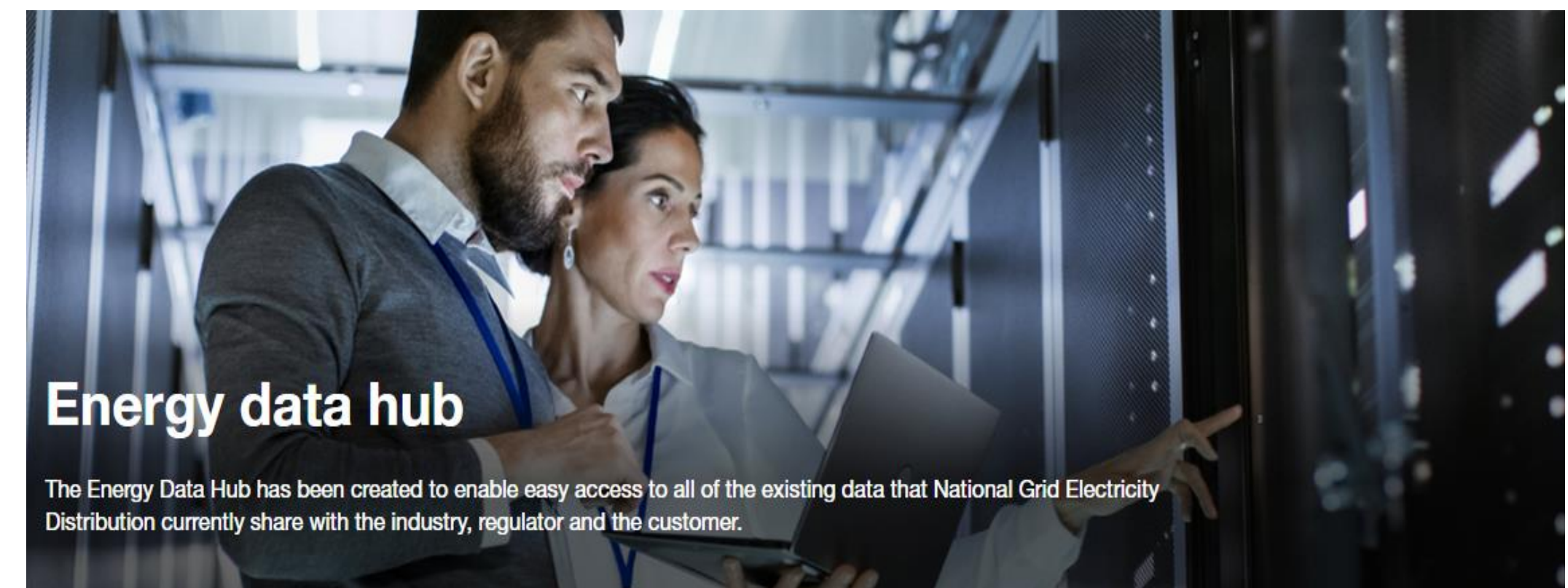
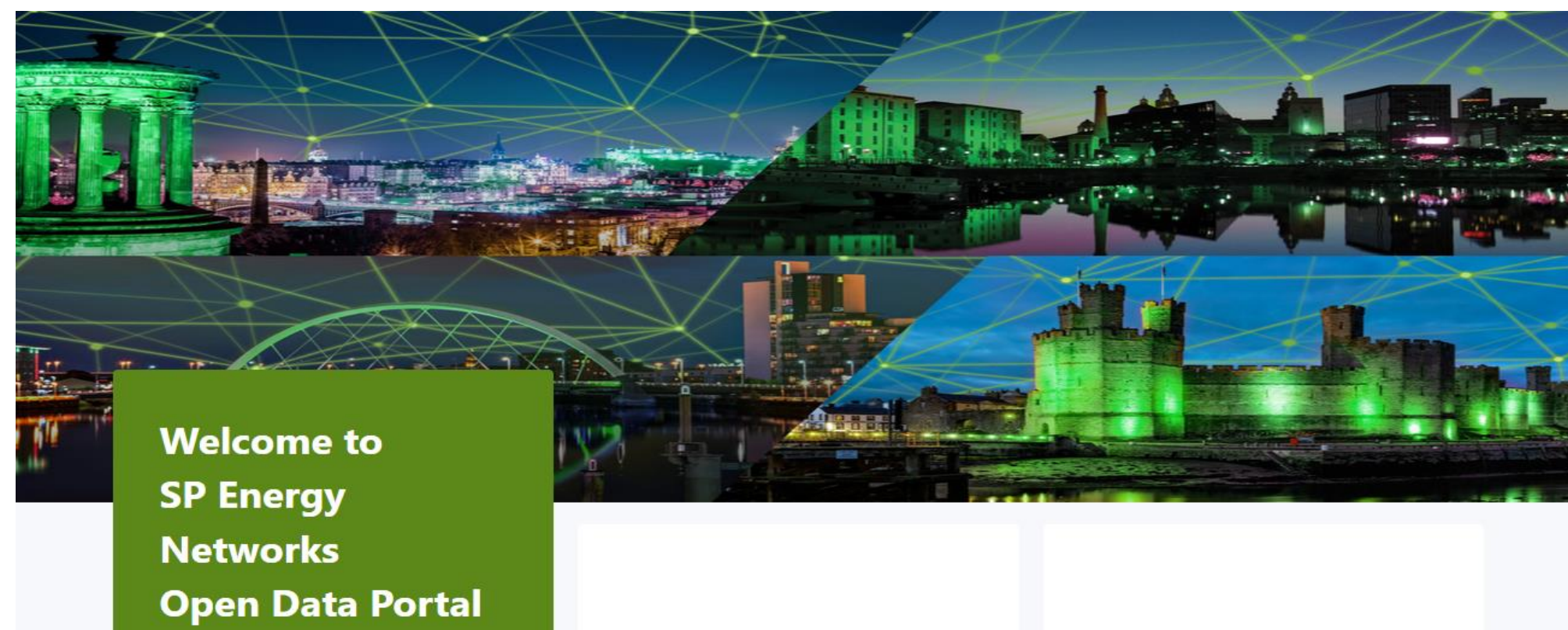
The aim of the Network Development Plan is to provide a medium term outlook to our stakeholders.

It provides details on available network capacity to accommodate future demand and generation growth, as well as our planned interventions which increase network capacity.

Data Agored i gwsmeriaid / Open Data for customers

Nodau rhannu data ynni yw datgloi gwerth o ddata yn y system ynni, sbarduno arloesedd o ran cynnyrch, gwasanaethau a busnesau newydd, a chynhyrchu systemau mwy effeithlon a chosteffeithiol sy'n gweithio i ddefnyddwyr ac yn gwireddu manteision ynni glân.

Bydd cyflawni system ynni ddigidol, fodern yn gofyn am fwy o welededd o ran data, seilwaith ac asedau, yn ogystal ag optimeiddio gweithredol, marchnadoedd agored a rheoleiddio ystwyth.

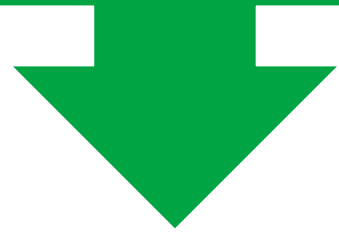


The aims of energy data sharing are to unlock value from data within the energy system, drive innovation in new products, services and businesses and produce more efficient, cost effective systems that work for consumers and realise the benefits of clean energy.

Achieving a modern, digitalised energy system will require greater data visibility, infrastructure and asset visibility, operational optimisation, open markets and agile regulation.

Contacting us

strategicoptimisation
@spenergynetworks.co.uk



Strategic Optimisation

- Strategic Engagement
 - Development of LAEP/ RES plans.
- LCT Optioneering
 - LA / Local Gov support for EV and HP optioneering
- Strategic Area Studies
 - NEWID – North East Wales Industrial Decarbonisation

Flexibility
@spenergynetworks.co.uk



Flexibility Services

- Flexibility Trials
 - Such as Demand Shift with Octopus Energy
- Development of future flex services options

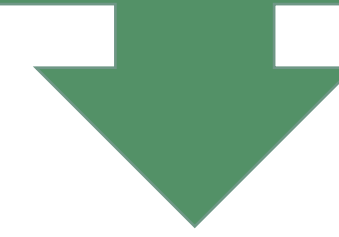
Communityenergy
@spenergynetworks.co.uk



Community Energy

- Liaison with Community Energy Wales
- Work with LA's / Local Gov to develop community energy projects
- Work with Community Energy Groups
 - Ynni Llyn
 - Bethesda Home Hub

gettingconnectedupdate
@spenergynetworks.co.uk



Connection Applications & Enquiries

- Connection Applications
 - Formal Applications
 - Budget Estimates
 - Feasibility Studies
- Enquiries for additional load etc.