ESB NETWORKS

NATIONAL NETWORK LOCAL CONNECTIONS PROGRAMME

ADVISORY COUNCIL MEETING 6 | DECEMBER 11TH, 2023



AGENDA -Chair Designate: Alan Keegan

Agenda Item	Time	Owner	Speaker
Welcome & actions update	10.30 - 10.40 am	10 mins	Alan Keegan
Year in Review Key developments in 2023 	10.40 - 11.05 am	25 mins	Alan Keegan & Gerry Noone
Update on Storage	11.05 - 11.25 am	20 mins	Gerry Noone
Coffee break	11.25 - 11.40 am	15 mins	
Beat the Peak Business	11.40 - 11.50 am	10 mins	Carol Murphy
Blueprint for Flexible Demand in Markets	11.50 - 12.15 pm	25 mins	Dr. Ellen Diskin & Alan Keegan
AOB / Round table discussion	12.15 - 12.45 pm	30 mins	All



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NA

GENERAL HOUSE KEEPING

Transparency

- Minutes being recorded and will be published on the stakeholder forum and made available to general public
- Presentations will be published in the stakeholder forum and made available to general public

Stakeholder forum link : (Our Advisory Council (esbnetworks.ie))

Questions

If joining us virtually please raise your hand or drop questions into the chat function

Please note over the course of the year there may be open procurement processes so there may be aspects of the programme we will not be in a position to discuss.



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Welcome



Advisory Council Meeting 5 Minutes & Actions Sign off

Meeting Minutes found here: Action Log: https://www.esbnetworks.ie/docs/default-source/publications/advisory-council-5 minutes.pdf?sfvrsn=57123ede 5

Item	Торіс	Detail	Status	Progress
1	Pricing Approach	Analysis regarding the €444 figure to be shared (dependent on advice from procurement).	Ŭ	NN,LC Programme to confirm whether the pricing analysis paper that was submitted to the CRU can be shared with members of the Advisory Council.
2	Bespoke workshops as part of call for input	Bespoke workshops to be scheduled re. call to input	In Progress	



Year In Review



Year In Review

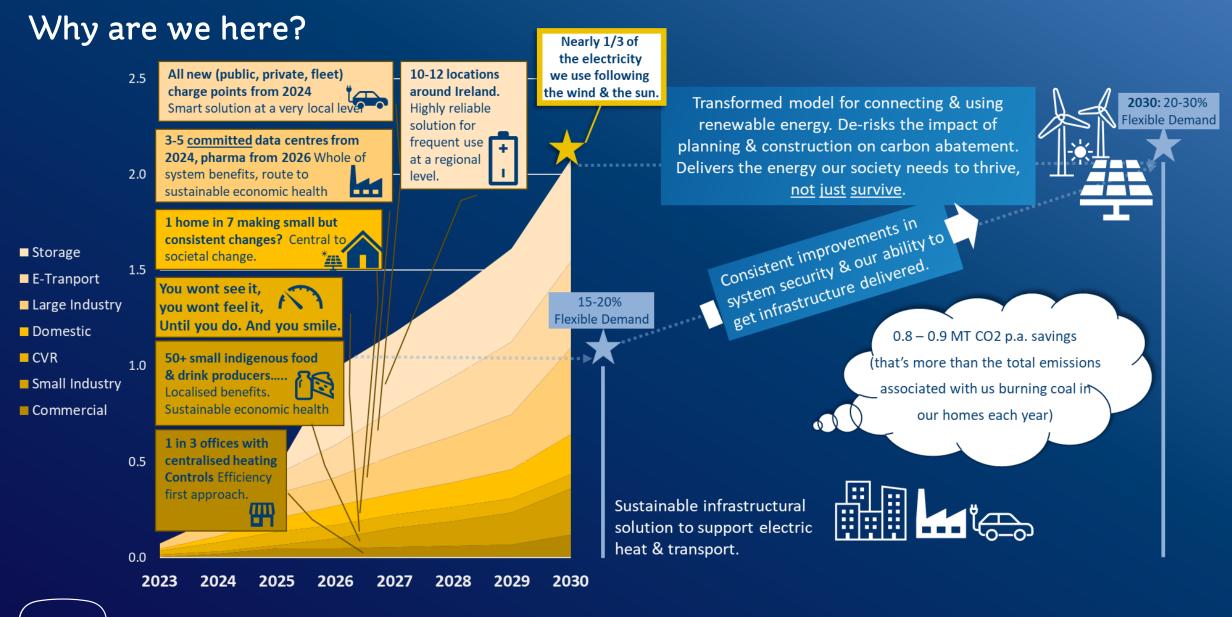




Year In Review

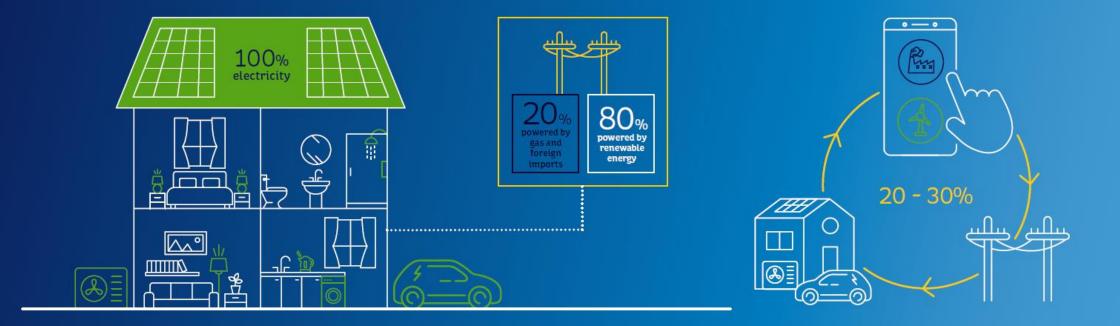






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Why are we here?





10-12 TWh demand increase (+35%) 5-6 TWh heat & transport (c. 50%) 3-3.5 GW peak demand (+65%)



22-23 GW renewables (+300%) 7% oversupply limit (-40%) 3 MtCO2eq. p.a. (-75%)



Up to 10 TWh of flexibility (1.4 – 2.4 GW) 0.86 MT CO₂ abatement p.a.

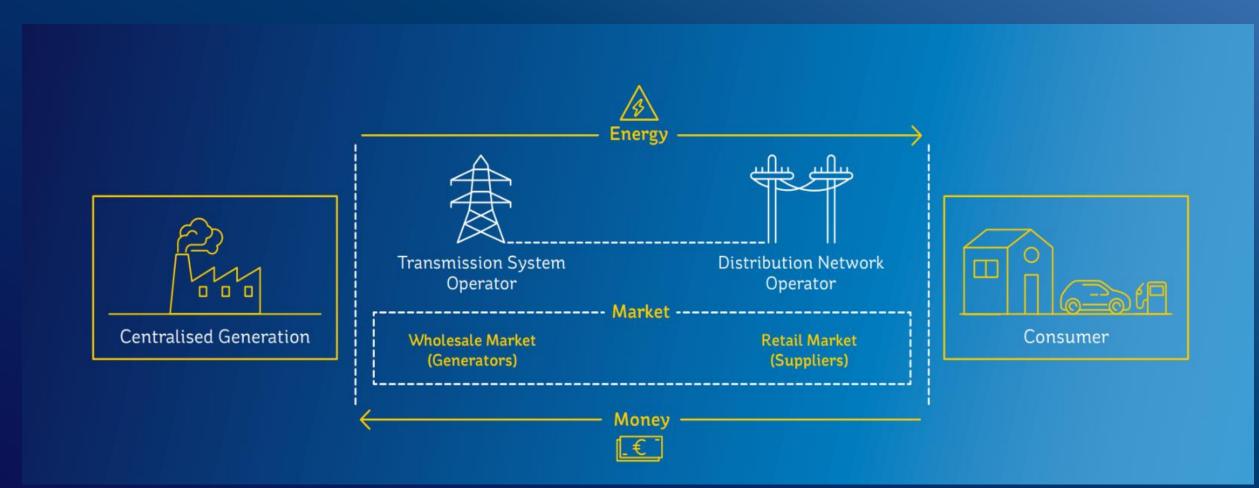


What's changing?



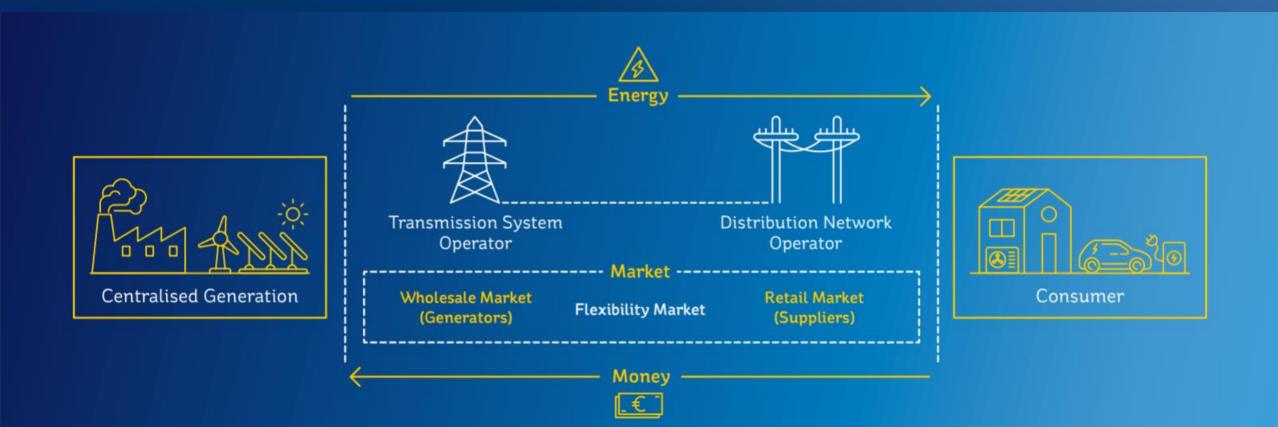


What's changing?





What's changing?

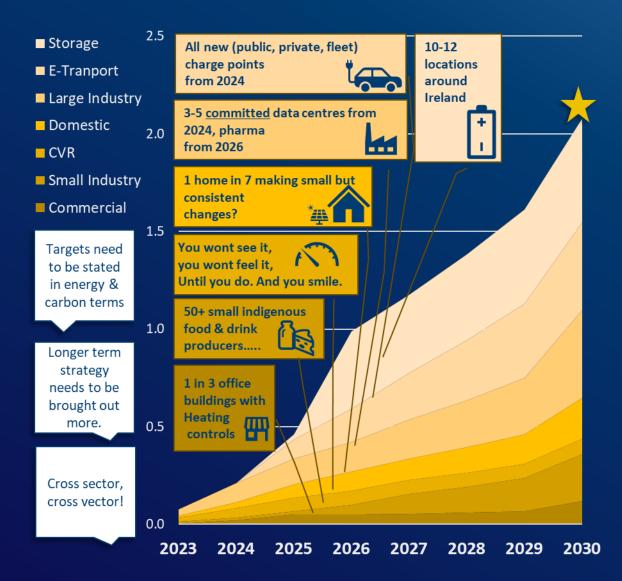


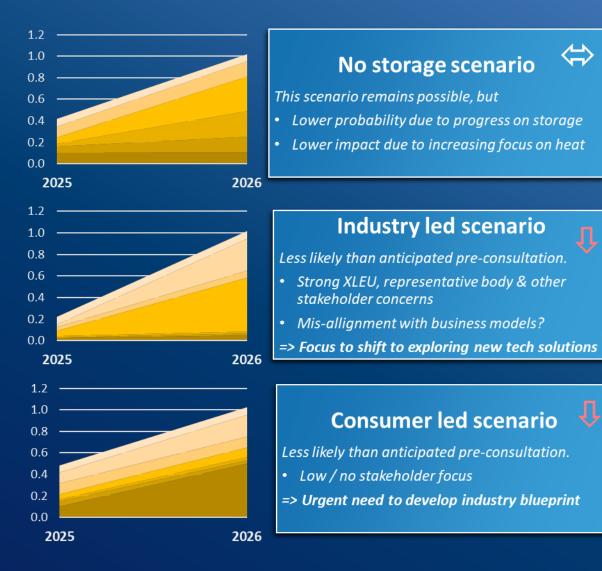


What have we done?









What have we done about it in 2023?

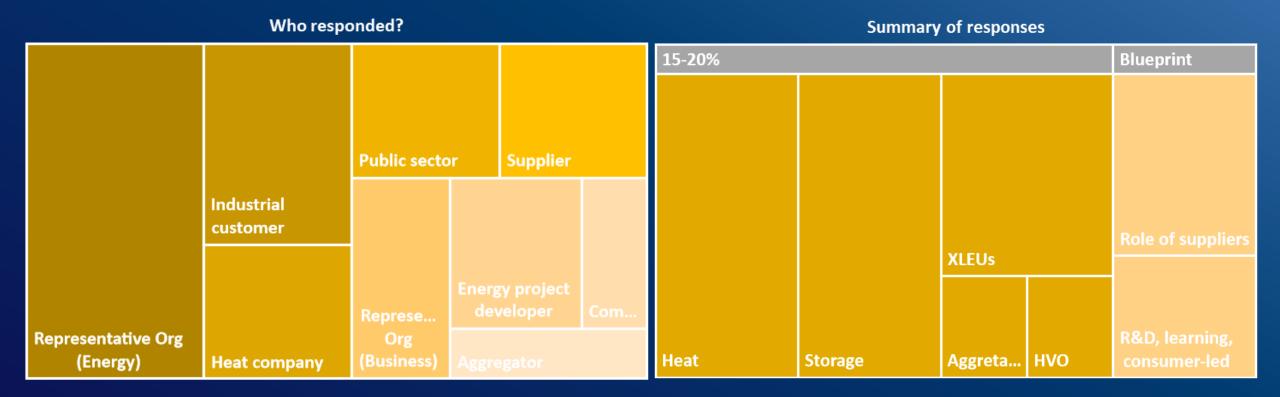
Vision: To meet Ireland's climate action and net zero targets Mission Drive climate action by cultivating customer participation and flexible, whole-of-energy-system solutions **Behind-the-**Smart **Flexibility Market** Power System **Retail Market** Customer Metering Meter We helped 18.5k customers feel 18-22% more in control First local flex 700 daily customer Flex-ready standards for BTM 1.46 million smart & put 13-18% more effort into their energy demand than technologies specified and switches to markets live 2022. meters installed other households, winter 22/23 22% bench tested. smart tariffs (-/~ 18% 18% Now operational in and insights 13% 10 locations. **SEAI Partnership for supply** 97% of smart chain engagement. meters consistently +35 locations at Localised energy **BTP** education but BTP education, Events, connecting registration stage. Submission to forecasts no events Rewards CRU for 71k customers adoption moved on to +9k signups for new BTP products, to develop new MWhs Reduced Q4 2023. ン: ^ leading insights on adopting new behaviours. smart microgen 357 million nightly 61% 75% 78% 79% reads 2023 year to date 69% 77% 52% 31% 33% Smart meters used Scenario analysis to Monetary Charity No Reward to identify 15k 57k customers +1.3 million meters sending underpin national targets Engage Opt-In Act customers Persistent increases in demand paid using 1/2 hourly meter data exporting smart data reduction event on event customers can ልን electricity but Partnership with SEAI access in the 70+ not yet signed up to Behavioural Unit Customer Portal. microgeneration 50-65 live Q4 022 2 years' behavioural 40-50 Locational & motivational AA 30-40 value of insights Retail Hospitality Manufacturing Pharma storage 20-30 Customers primarily across 4 industries

What's next?

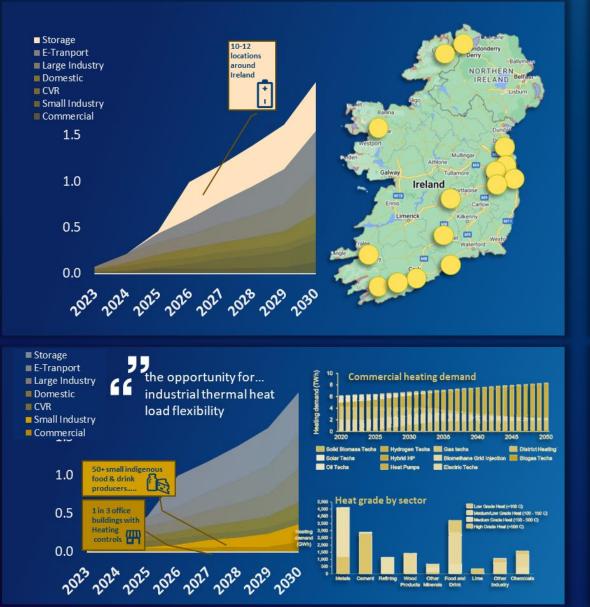


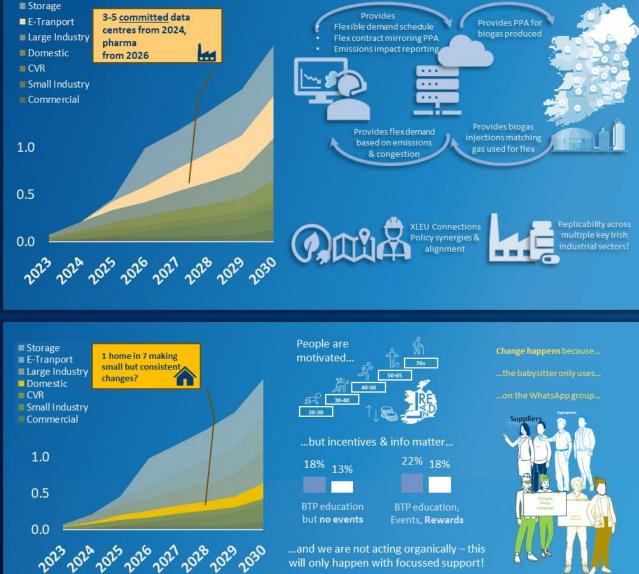


What's next? Who cares and what do they care about?



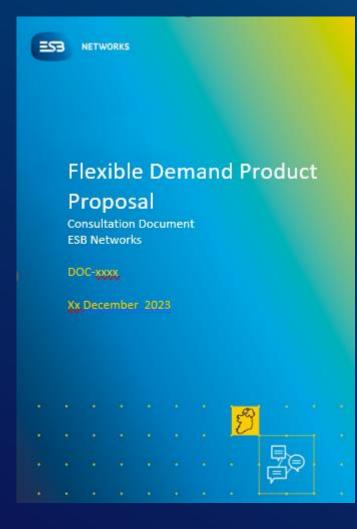
What's next? | Spotlight on storage, XLEUs, heat and households.





Next Steps | Pending Energy Demand Strategy & Regulatory Target Setting Process

15-20% Next Steps (short term)	Launch product for locational medium duration flexibility (storage) Q1 2024	Launch product targeting XLEU carbon abatement, with initial focus on gas / green gas solution H1 2024	Launch product targeting commercial & industrial electric heat H1 2024	Flexible demand connections and flex-ready technical standards H1-H2 2024
Blueprint Next Steps (longer term)	Develop "Blueprint" with market participants, agencies and CRU H1-H2 2024	DSO-led to Industry-led transition plan H1-H2 2024	Develop initial sector coupling proposals with gas, transport, water & heat H1-H2 2024	DSO, TSO, industry engagement on stacking & coordination model Q4 2023 – Q1 2024



2023 Year Milestones

- Energy Demand Strategy Publication
- Extensive Industry Engagement
- Collaborative Design Phase
- Consultation period opens soon

2024 Through to Energisation Targets

• Briefing to Advisory Council Members





Storage



Security of Supply Products - Update



Beat the Peak | Update we are live across our Domestic & Commercial Campaigns





Our Ask

Business : Support us in promoting scheme to commercial users

(application via e-tenders)

Domestic : Support Sign Ups and promote via your organisation or teams to encourage others to sign up

- The goal is to build on pilot & continue to educate customers and drive behaviour change around domestic demand side flexibility
 - Test and learn concepts, content and rewards approach for highest engagement





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Beat the Peak Business | Overview of Scheme

Registration for our scheme targeted at all commercial users is now live on etenders



PURPOSE

The purpose of the scheme is to shift

and mitigate System Alerts.

demand during peak evening periods to

alleviate potential tightness on the network

Scheme is open to all commercial electricity users who met eligibility criteria (QH meter, TSO or DSO connected, & pass Network Safety Checks)

SERVICE DETAILS

During the scheme, commercial electricity users will be asked to reduce demand daily between 4.30 – 7.00pm, Monday – Friday (excluding public holidays) and for Peak Events called by ESB Networks.



FINANCIAL INCENTIVE

For Daily Events: Flexible Service Assets will receive a payment of €680 per MWh

For Peak Events, Flexible Service Assets will receive a payment of €820 per MWh reduced

Flexible Service Providers will receive a payment for each Flexible Service Asset recruited and will receive a payment calculated as 50% of the total sum of their Flexible Service Asset's payment where they have 2 or more Flexible Service Assets signed up to the scheme

Based on feedback we are offering longer duration contracts, with scheme running until March 2025, with option to extend to September 2025



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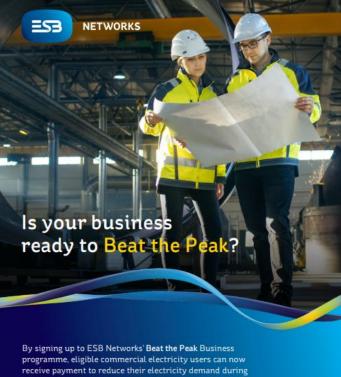
Beat the Peak Business | Challenge Recruitment



the 4.30pm - 7pm commercial peak hours, when the margin between the electricity supply and generation is low.

To learn more about Beat the Peak Business. scan this QR code or visit esbnetworks.ie/business

ESB Networks. Energising your everything.



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ESB Networks. Energising your everything.



ready to Beat the Peak?

By signing up to ESB Networks' Beat the Peak Business programme, eligible commercial electricity users can now receive payment to reduce their electricity demand during the 4.30pm - 7pm commercial peak hours, when the margin between the electricity supply and generation is low.

To learn more about Beat the Peak Business, scan this QR code or visit esbnetworks.ie/business



ESB Networks. Energising your everything.







Beat the Peak Business | More Information

If you are interested in learning more or applying for the scheme, or know of organisation that might be interested in applying then please see links below or reach out to our team at <u>btp@esb.ie</u>

LEARN MORE & SIGN-UP VIA

- ESB Networks: <u>https://www.esbnetworks.ie/who-we-are/beat-the-peak/overview/beat-the-peak-business</u>
- E-Tenders: <u>Public RFT Beat the Peak Business (eu-supply.com)</u>
 - To apply for Beat the Peak Business please log in to etenders and search for RFT 243565, where you will find instructions on how to apply, and all the contract terms and tariffs



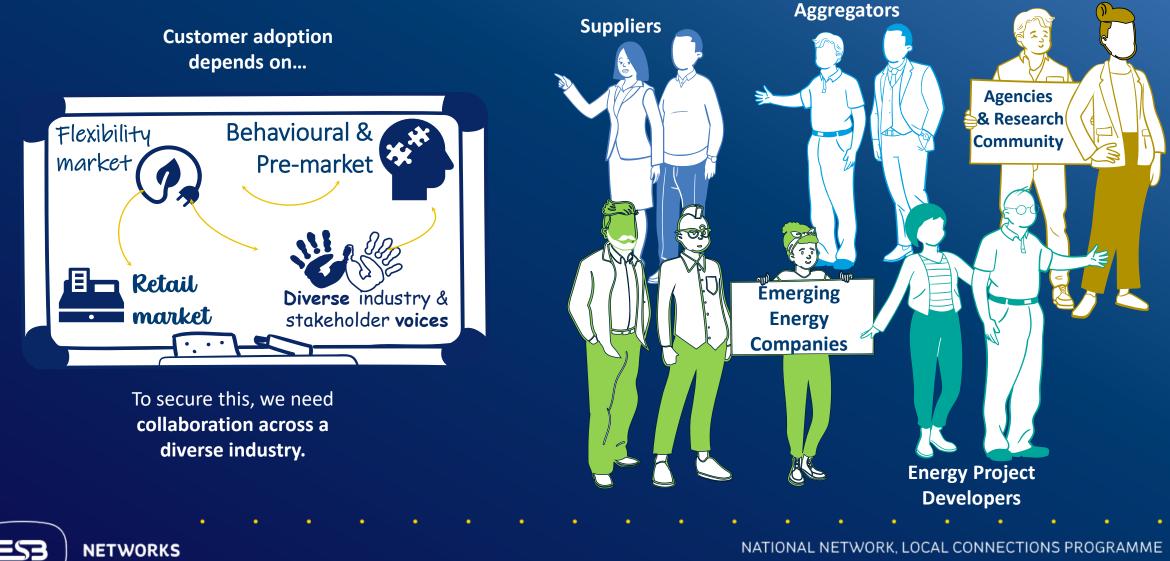


Blueprint for Flexible Demand in Markets



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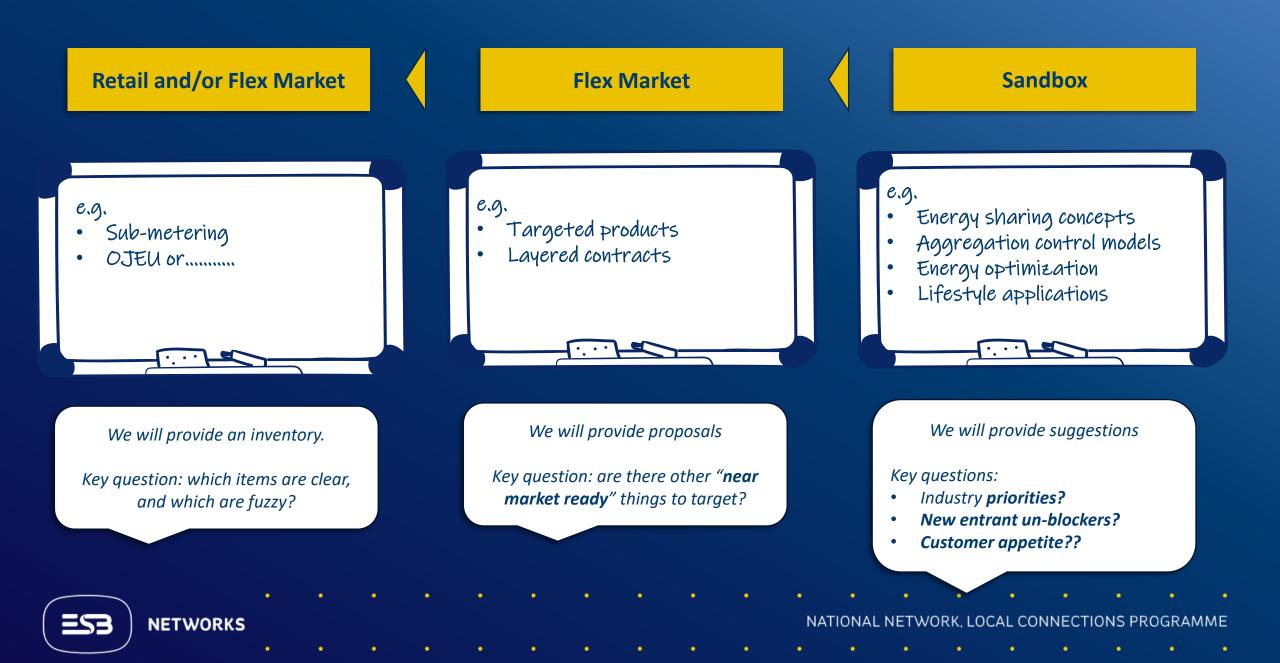
Blueprint: What's it all about?



It's 2035. What does Irish society look like?

(What energy infrastructure does it need?)







Blueprint Development Timeline



TSO/DSO future operating model – industry engagement approach





AOB / Round table discussion



Thank You!

engagement@esbnetworks.ie



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