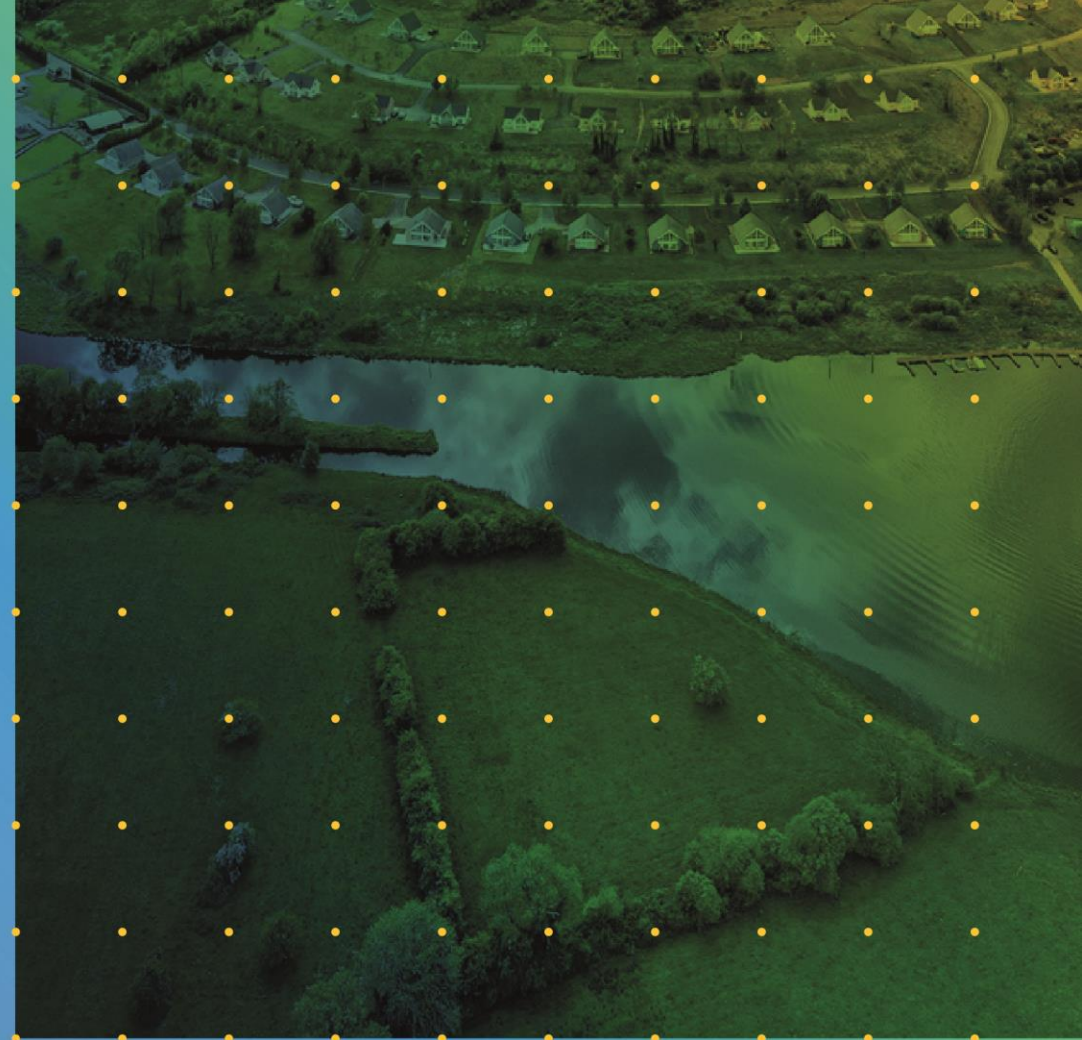




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NATIONAL NETWORK LOCAL CONNECTIONS PROGRAMME

ADVISORY COUNCIL
MEETING 5 | JULY 25TH 2023



AGENDA -

Chair: Dr. Ellen Diskin

Agenda Item	Time	Owner
Welcoming & actions update	10 Mins	Alan Keegan / All
Beat the Peak - Update	20 mins	Ellen / All
15 -20% Flexibility by 2025	20 mins	Ellen/ All
Coffee break	15 mins	All
Call for Input Paper	40 Mins	Ellen
CRU & ESB Networks – Longevity of Initiatives	15 mins	Cissie/Kevin
Roundtable Discussion	20 mins	Alan/All

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 \(esbnetworks.ie\)](https://www.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.

WELCOME



WELCOME



**National Network,
Local Connections
Programme**

Advisory Council Meeting 4 Minutes & Actions Sign off

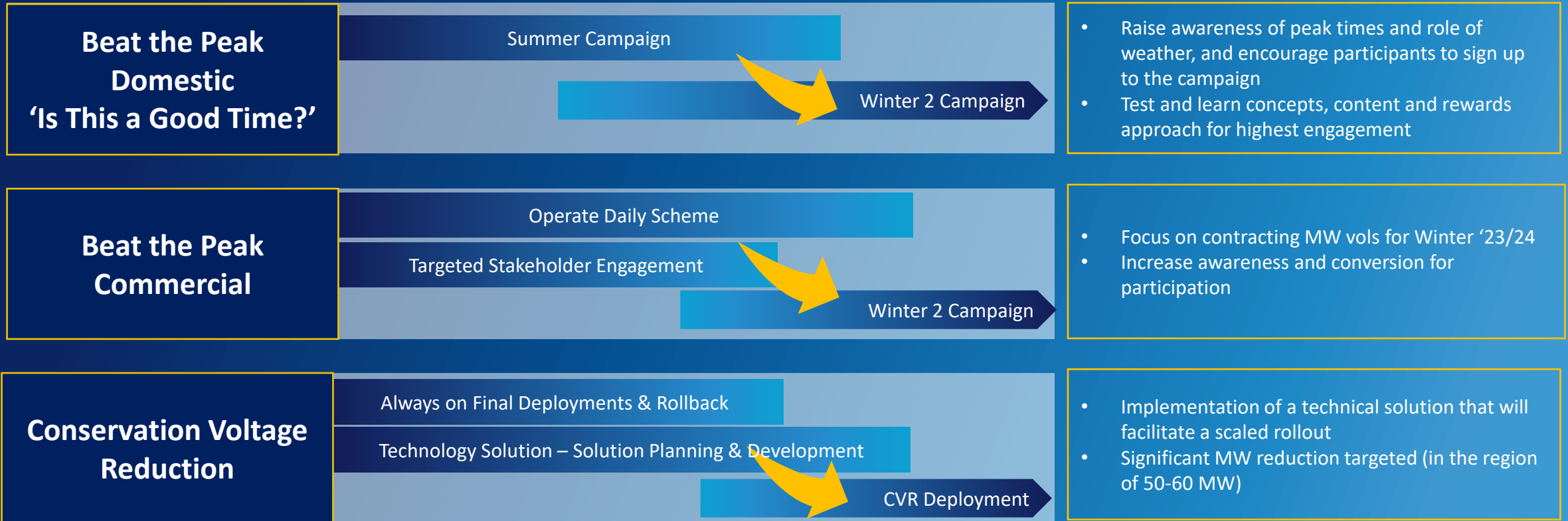
Meeting Minutes found here: Action Log: [advisory-council-meeting-4-minutes-final.pdf \(esbnetworks.ie\)](https://www.esbnetworks.ie/advisory-council-meeting-4-minutes-final.pdf)

Item	Topic	Detail	Status	Progress
1	Timing of BTP Initiatives	NNLCP to directly follow up with participants, as a means of clarifying what parameters were not met.	Closed	Interviews were conducted with commercial participants April'23. Ed O'Donoghue was interviewed (Viotas) GridBeyon also interviewed Nick L
2	Mullingar	Provide clarity on exact number of max no. of customers who could participate.	Closed	Procurement cycle is ongoing – no further comment can be provided.
3	Future Agenda Item	Ahead of the upcoming Advisory Council, it was noted that an agenda item should be included, which focuses on how ESNB and CRU can provide increased levels of confidence to customers in relation to the longevity of>NNLCP initiatives.	Closed	
4	Pricing Approach	Analysis regarding the €444 figure to be shared (dependent on advice from procurement).	In Progress	Considered various proxies including rates used in similar past schemes (ie WPDRS) and DSU complex bid rates from Commercial Offer Data (COD) to provide an indication of the cost DSUs require to be dispatched.
5	Long Duration Storage	Annual run hours for storage to be included in document issued for consultation EG added that milestones are indicative and may alter based on consultation responses and findings gleaned via research.	In Progress	
6	Flexible Connections	NNLCP to schedule a call with WEI and ISEA members in relation to Flexible Connections and addressing issues which have been raised.	In Progress	
7	Long Duration Storage	NNLCP to follow up with BOS and his representatives, to create a proposition which balances pragmatism with system need and capital competition.	In Progress	Gerry Noone presented at a behind to the meter sub group in conjunction Irish Energy Storage. Further engagement will be taking place.

Beat the Peak Update

Beat the Peak | Upcoming priorities

Winter 2 Priorities



Winter 2022 | BTP Commercial Headlines



8.6 MW of
MV customers

7 new
assets



who have never partaken in flexibility previously



Retail



Hospitality



Manufacturing

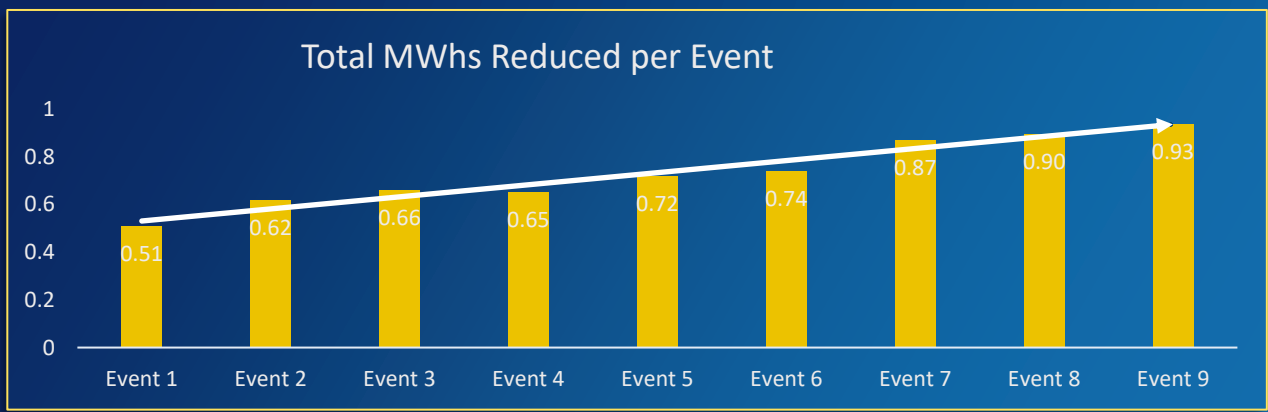


Pharma

Assets span across **4** industries



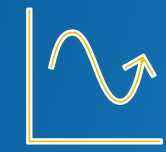
Assets based in
7 different
locations



Initial Insights



Increasing reduction of demand levels of actively participating assets over time as the scheme progressed



Demand on event days was **on average higher than on non-event days**, possibly due to customers shifting peak demand.



Issuing instructions 1 hour earlier resulted in **lower peak demand**, while 1 hour later resulted in slightly higher peak



Baseline methodology may require refining to more **accurately reflect** customers' current demand.



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Beat the Peak | Upcoming priorities

Winter 2 Priorities

**Beat the Peak
Domestic
'Is This a Good Time?'**

Summer Campaign

Winter 2 Campaign

- Raise awareness of peak times and role of weather, and encourage participants to sign up to the campaign
- Test and learn concepts, content and rewards approach for highest engagement

Beat the Peak Commercial | Insights from W1



Insights from W22

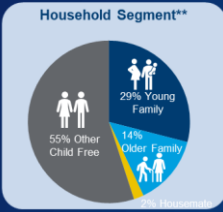
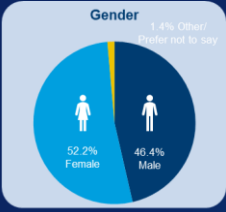
- 1 Service window of BTPC Events **certainty was a big positive for participants**
- 2 Participants expressed interest in future BTPC schemes, however in the interest of recruiting more customers, would strongly **encourage stacking** with other markets **and longer term contracts**
- 3 **Effort to contract was very high**, given the short contract period. A simpler process aligned to the value of services being provide is needed
- 4 **Baseline setting methodology** should accurately reflect current performance as much as possible
- 5 Aggregators fed back that there was **limited awareness of the scheme** and suggested broader advertising of demand down services would facilitate recruitment



Action for W23

- We will **continue to provide certainty** in the service requested, where possible and where it provides value to the network
- We will iterate and improve how to **enable market stacking** and data sharing with the TSO, **lengthen the scheme period**, and **provide market signals sooner** to encourage recruitment
- We will aim to **simplify the procurement process** as and provide additional guidance, where possible to help navigate e-Tenders. This includes questionnaire with only strictly necessary questions.
- **Testing different baseline setting options** and aim to develop our capabilities for dynamic baseline setting
- We will **increase engagement** with industry and stimulate the market through publication of a **Prior Information Notice**, 121 engagements, and marketing initiatives

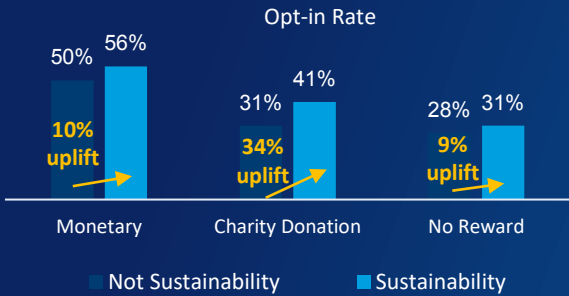
Winter 2022 | BTP Domestic Headlines



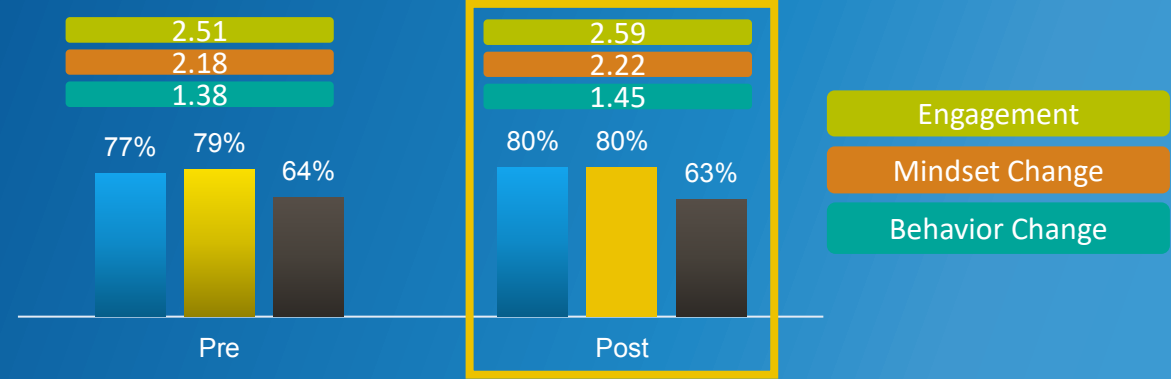
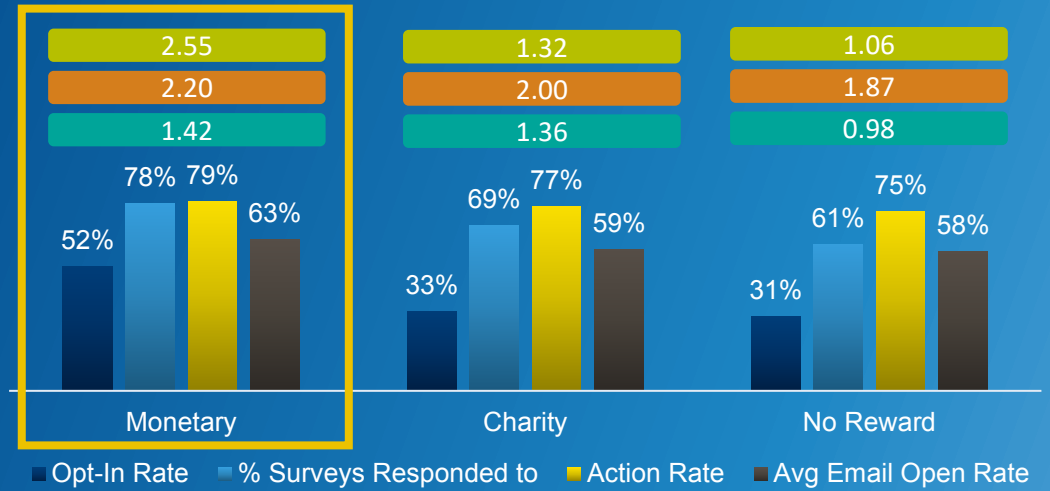
17,500 participants

82% Responded to events

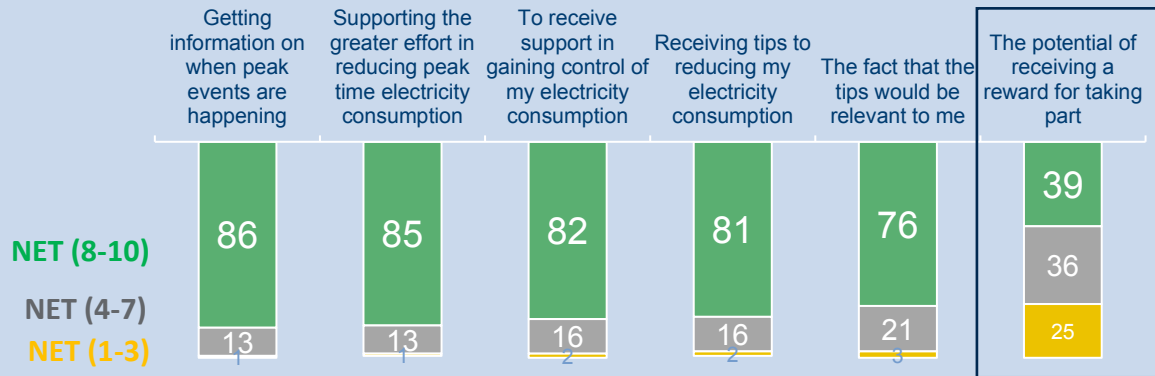
60% Educational email open rate vs **21.5%** industry average.



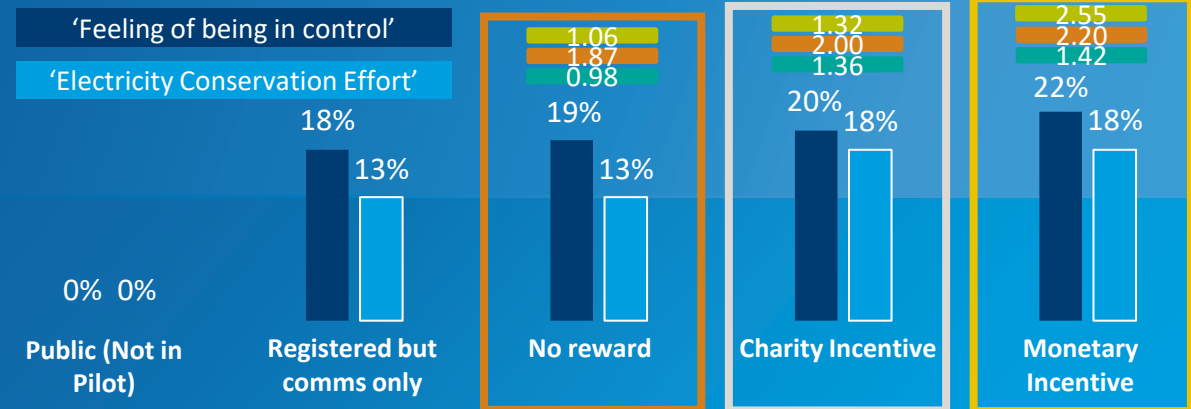
	Pilot Participants at Registration	Wider Population
Effort	3.5 Avg score	2.1 Avg score
Control	3.0 Avg score	2.8 Avg score



How important were the following factors for your decision to sign up?



Q.4 of Participant Tracker January 2023
Base: All respondents; n=2020



Beat the Peak | Upcoming priorities

Beat the Peak Commercial

Operate Daily Scheme

Targeted Stakeholder Engagement

Winter 2 Campaign

Winter 2 Priorities

- Focus on contracting MW vols for Winter '23/24
- Increase awareness and conversion for participation

Beat the Peak Domestic | Insights from W1



Insights from W22

1

- +18K participants (52% female, 46.4% male) very engaged throughout:
- 60% avg engagement rate with communications vs 21.5% industry avg
- **20% uplift** in participants **feelings of 'being in control'** of electricity
- **89% consciously reducing** their electricity usage between 5-7pm
- Clear, simple and actionable tone of communications well received
- **89% agreeing tips were practical** and easy to action

2

- Those receiving a more enhanced version of pilot feel more conscious of little actions to take than those with more basic experience (93% vs 80% agreement, Participant Survey)

3

- **Monetary incentive** is a more impactful motivator for participation
- **Post payment** encouraged higher event participation



Action for W23


- Recruitment campaign was successful in delivering conversion, the **creative concept will be evolved** to increase participant numbers
- **Further personalisation** and **localised messaging**
- **Segmentation** model being **further refined**
- All participants will receive a **post pay monetary reward** for taking action in order to maximise participation in events.

Winter 2022 | CVR headlines

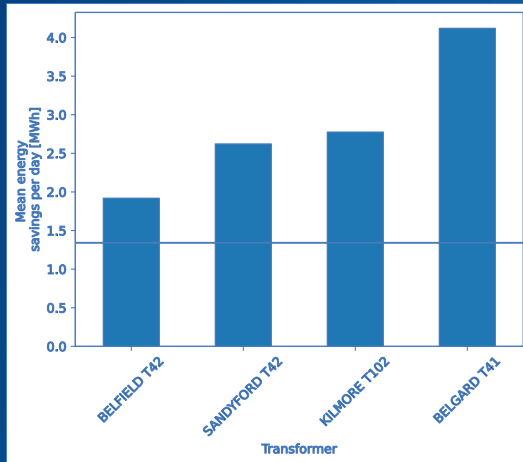
 **18** transformers gone live
44 transformers going live

 **4 Areas**
 Dublin North, South, Cork and Waterford

 **Average 1.85% demand reduction**
 from 62 trafos with c. 240 MW peak demand


 **84.4 MWh**
 daily energy savings via ramp-up to 62 transformers

Pilot transformers with the highest MW reduction potential



 **0.88%** demand reduction per 1% voltage reduction   **2.1%** average voltage reduction for “always on”

 **1.85%** avg demand reduction  **€37 p.a.** average direct saving in customers’ bills

 **Key Learning** based on the observed voltage reductions achievable via “always on”, a new tech. solution is needed to increase power savings

What we have learned about the potential for Winter '23/'24:

Risk / tolerance approach in kV (Lower limit under normal operation is 10.1 kV, contingency allows for 9.6 kV)	Trafos #	Min MW Reductions (I-Const) *	Max MW Reductions (Z-Const) *
Greater than 10.2 / 20.2 @ end of line	188	9.8	11.3
Greater than 10.1 / 20.1 @ end of line	281	18.7	22.0
Greater than 10.0 / 19.9 @ end of line	397	32.8	38.4
Greater than 9.9 / 19.7 @ end of line	463	49.3	59.4
Greater than 9.8 / 19.5 @ end of line	For consideration pending testing to 9.9kV		
Greater than 9.7 / 19.4 @ end of line	For consideration pending testing to 9.9kV		

Beat the Peak | Upcoming priorities

Conservation Voltage Reduction

Always on Final Deployments & Rollback

Technology Solution – Solution Planning & Development

CVR Deployment

Winter 2 Priorities

- Implementation of a technical solution that will facilitate a scaled rollout
- Significant MW reduction targeted (in the region of 50-60 MW)

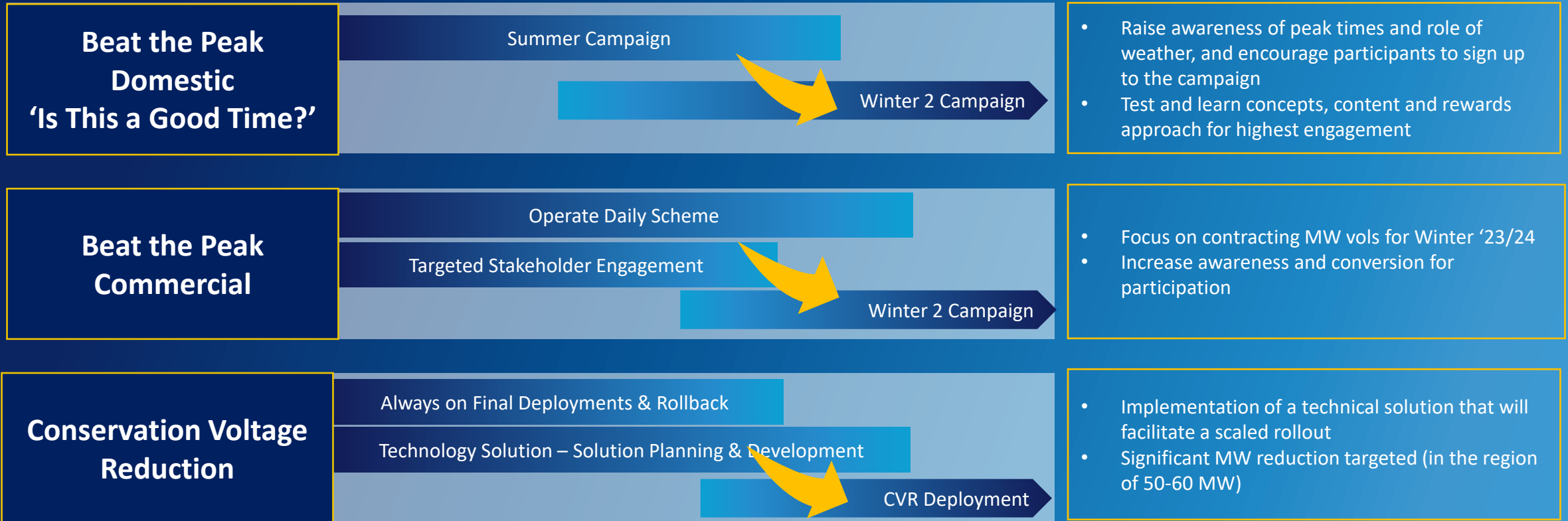


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Beat the Peak | Upcoming priorities

Winter 2 Priorities

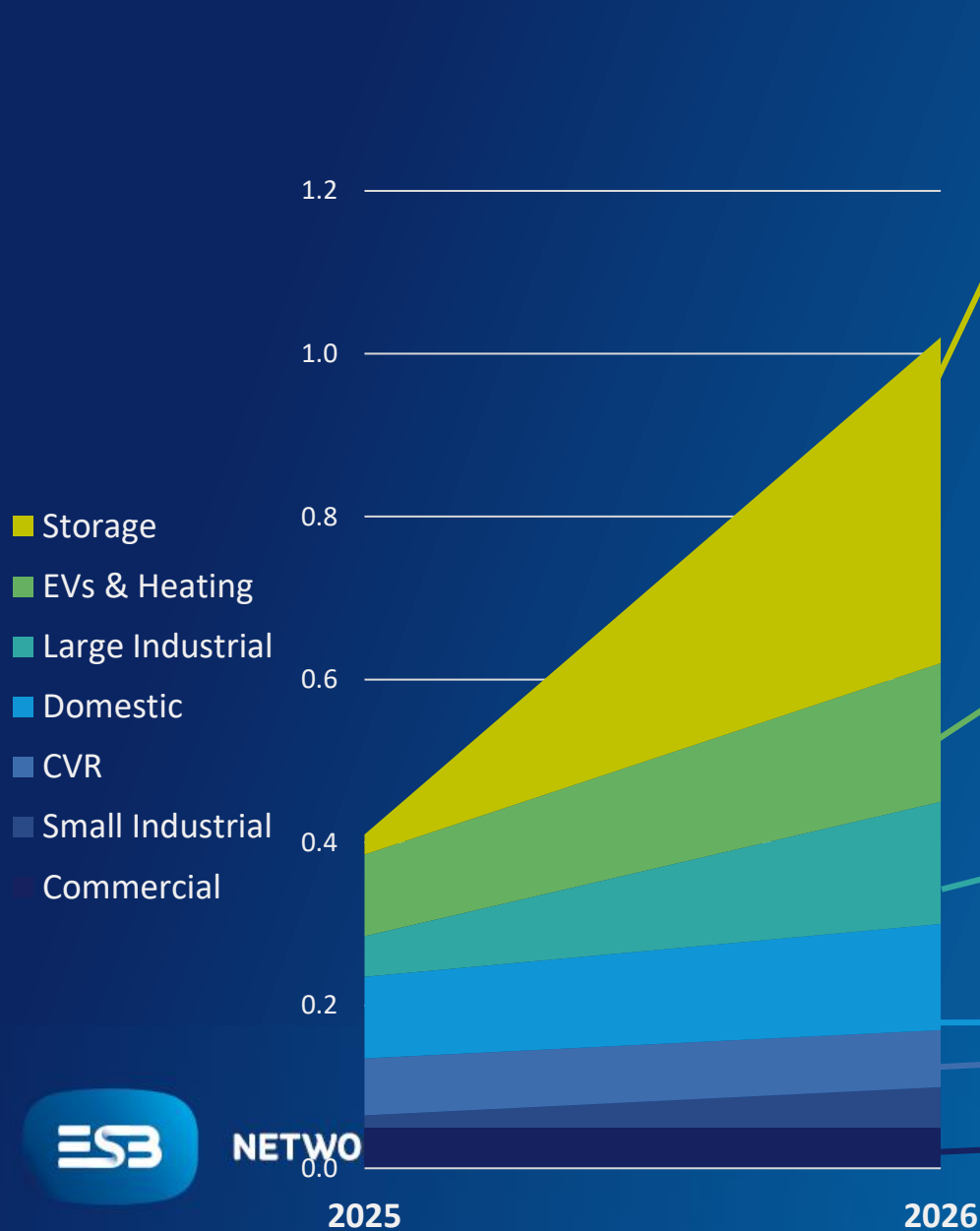


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15 – 20% Flexibility by 2025

15-20% | Central Scenario & Ongoing Work



Medium Duration (Multi-Hour) Storage

Medium Duration (Multi-Hour) Storage

Flexibility Ready Transport

Flexibility Ready Transport

Large Energy Users

Large Energy Users

Domestic PV, Agricultural PV, Communities

Domestic PV, Agricultural PV, Communities

Conservation Voltage Reduction

Conservation Voltage Reduction

Sector Specific Initiatives

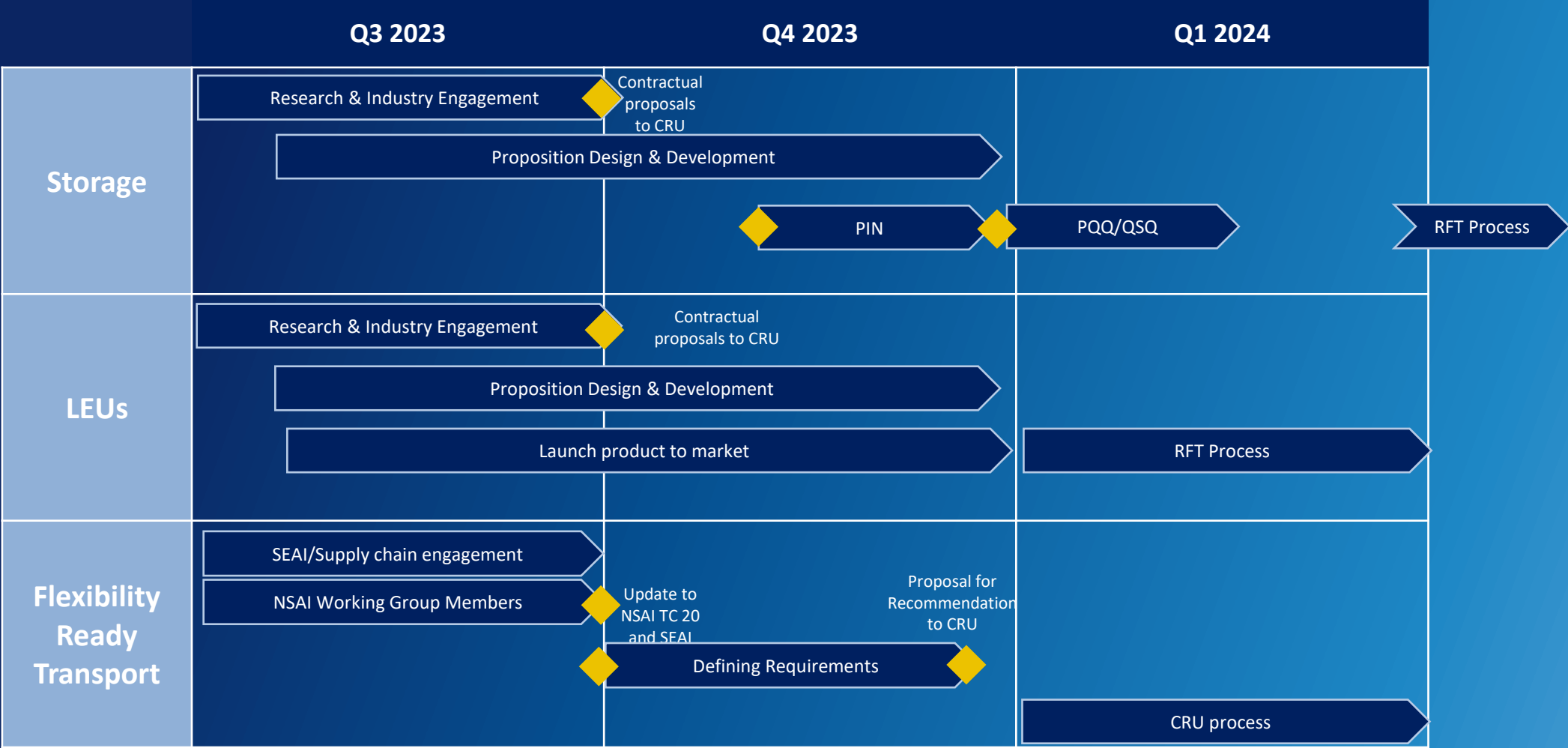
Sector Specific Initiatives



NETWO
0.0

TRIBUTION, MARKET, SYSTEM OPERATION

Live Initiatives | High-level Timeline



Storage | Advisory Council discussion

Contract term

How long is long enough?

Stacking

...may not be feasible for the foreseeable future

Cap & Floor...Cap & Share...

How to balance incentives, certainty and consumer protection?

Duration

Min. 4 hours, but not necessarily from a single site. And how to incentivise longer duration bids?

Locational specificity

Contracts to be offered on a location specific basis for system & practical reasons. But...?

Lead times

Realistic lead time to form a bid? And to construct a project?

Decarbonisation Objective

...and its implications for run hours...

Role consumer research | Enabling suppliers to transition ownership of initiatives over time

2023

2033

Initial DSO-led investment to help address market failures & barriers

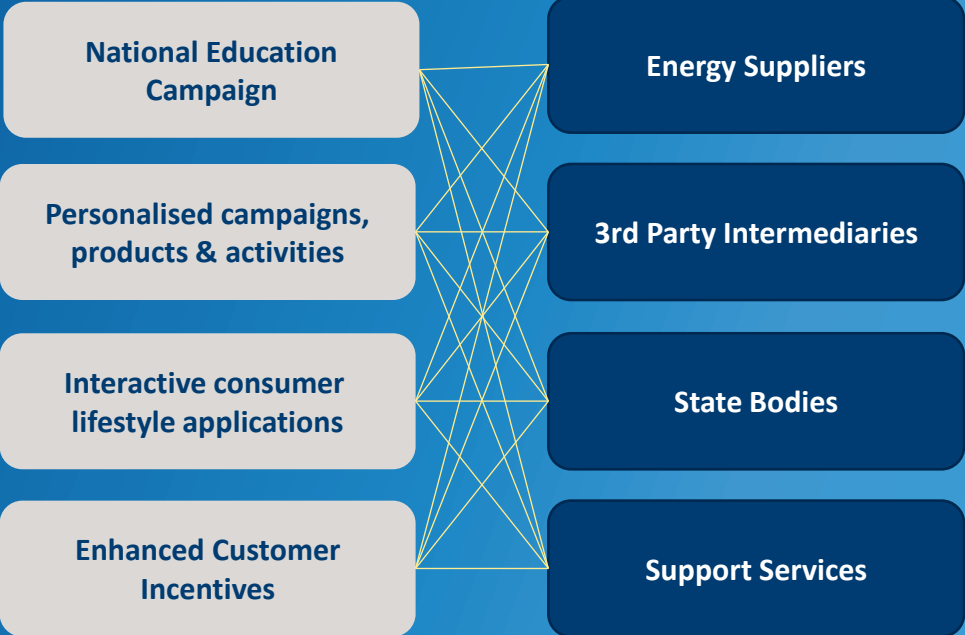
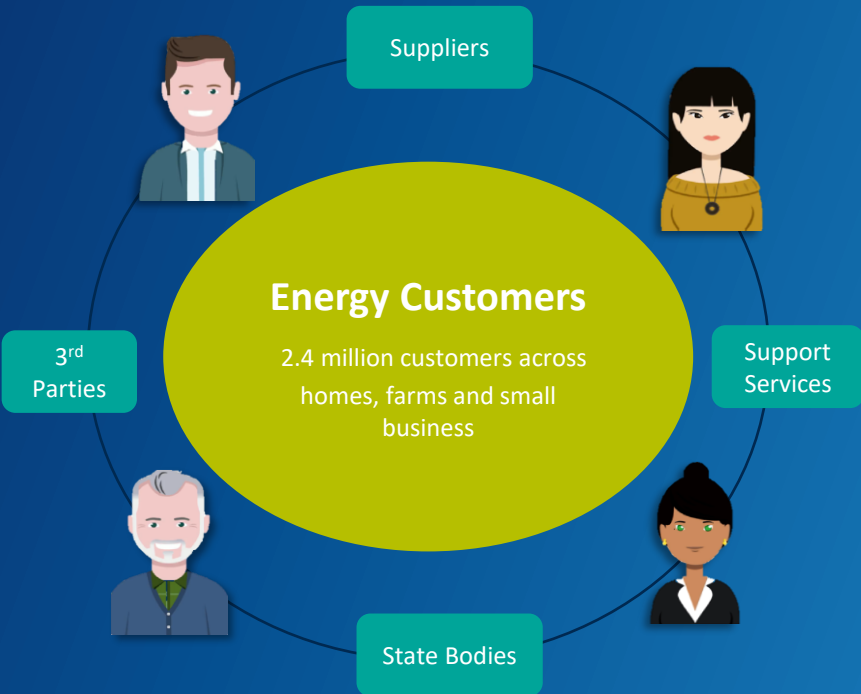
Collaboration and engagement to create opportunities for suppliers / energy services companies (e.g. aggregators) to grow their role, increasingly enhancing the flexibility experience and offering for customers

Target model in future is a supplier / energy services company led approach to driving consumer participation.

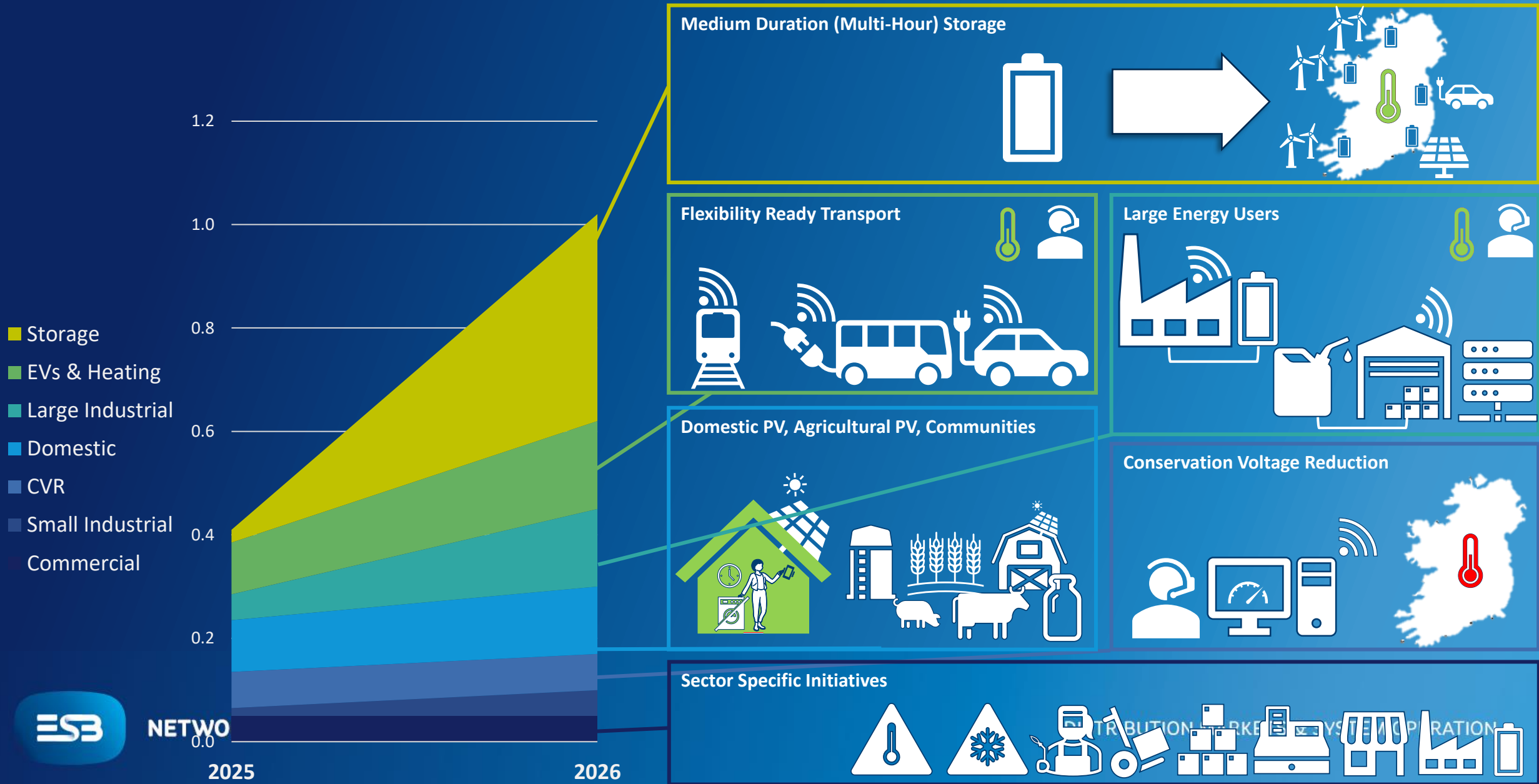
Roles initially led out by the DSO

Future role ownership to be transitioned

- National Education Campaigns
- Personalised campaigns, products & activities
- Interactive consumer lifestyle applications
- Enhanced Customer Incentives



For discussion @ Next Meeting | Industrial Heat, Domestic & PV



Call for Input Paper

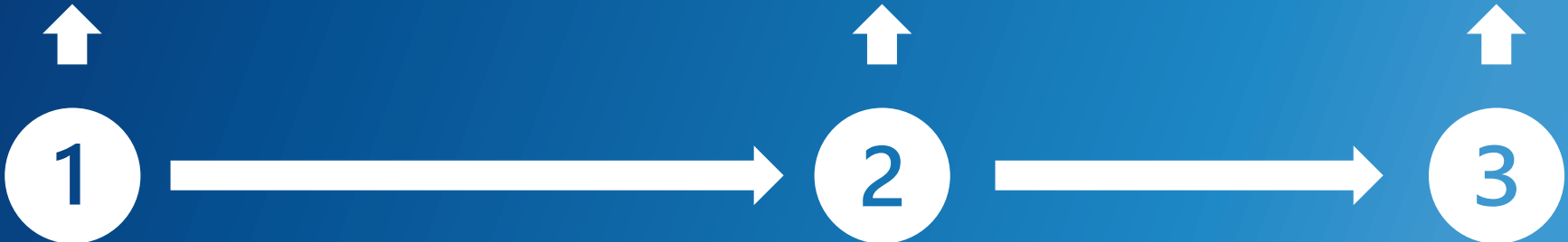
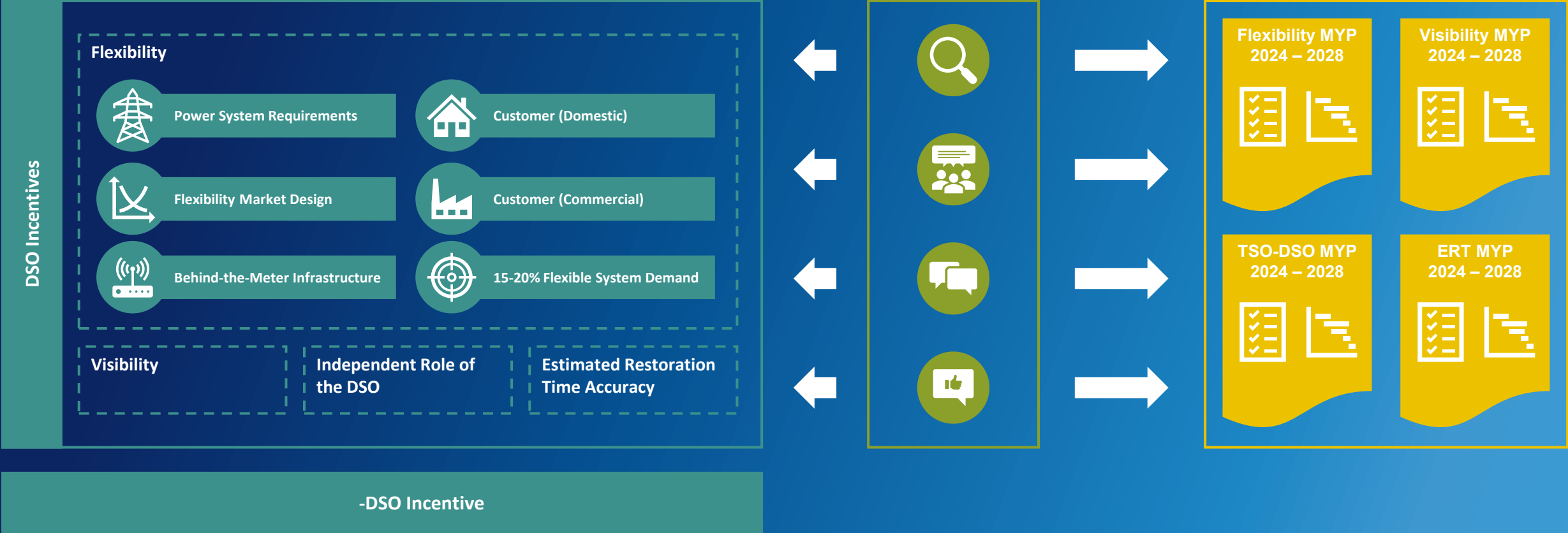
Call to input paper | 2023 look-ahead



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Calls for Input | What are our inputs? What can you add? How can you steer?



1
Calls for Input: Develop Proposals

2
Calls for Input Consultation: Seek Feedback

3
Multi-Year Plans: Reflect Feedback in MYPs

CRU & ESB Networks – Longevity of Initiatives

Longevity of initiatives | Request for Council Advice

Existing / Past Initiatives	Current contract - duration	Council Advice
Pilot 1 (Local Flex Market – Live)	2 years +1 potential extension	
Pilot 2 (Dynamic Instruction Sets – Live)	Until super seceded by Future Op Model	
Pilot 3b (Local Flex Market – In progress)	2 years +1 potential extension	
Pilot 4 (Flexible Connections – In progress)	Enduring	
Beat The Peak Commercial – Active (Closed)	6 months (including extension)	
Beat The Peak Commercial – Daily (Live)	6 months	

Next wave initiatives	Future contract – duration?	Council Advice
Storage product (early Q4 23 decision)	7-10 years?	
XLEUs product (early Q4 23 decision)	Multi-year?	
Industrial heat product (end '23 start '24)	Multi-year?	
Beat The Peak Commercial – W23 (Aug '23)	2.5 years?	
Future Local Markets	3 years upfront?	





Thank You!

engagement@esbnetworks.ie



ESB

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