ESB NETWORKS

NATIONAL NETWORK LOCAL CONNECTIONS PROGRAMME

ADVISORY COUNCIL MEETING 4 | APRIL 5TH 2023



AGENDA Chair: Dr. Ellen Diskin

| Agenda Item | Time | Owner | Notes |
|--------------------------------------|-----------|----------------------------|----------------------|
| Welcome Back | 5 Mins | Gerry Noone / All | and the second |
| Apologies and New Joiners to Council | 10 Mins | Gerry Noone / All | A CAR A |
| Actions up-date for Meeting 3 | 10 mins | Gerry Noone/All | - and the - and |
| | A Company | - when shirt shirts shirts | the within the |
| Multi-Year Plans Up-date | 15 Mins | Gerry | - Italia |
| 2023 Key Milestones | 40 mins | Ellen / All | |
| | | Stand and Provide and | the second the build |
| 15 -20% Flexibility by 2025 | 45 mins | Ellen/ All | |
| Roundtable Discussion | 20 mins | All | |
| Lunch | 12:30 | 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))

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 Codema MULLINGAR SMS **C**DRAI DC Sustainable Energy EIRGRID Ollscoil Chathair Bhaile Átha Cliath Dublin City University **IEVOA** Community VIOTAS Cork City Council Comhairle Cathrach Chorcaí Northern Ireland Electricity Networks ISEA Pioneering Gridware Technology Irish Solar Energy Association • An Roinn Comhshaoil, Aeráide agus Cumarsáide Department of the Environment, Climate and Communications NSAI ATU An Coimisiún um Rialáil Fóntais Seal SUSTAINABLE ENERGY AUTHORITY OF IRELAND CRL Commission for egulation of Utilities

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NATIONAL NETWORK, LOCAL CONNECTIONS PROGRAMME

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WELCOME



IRISH ENERGY STORAGE ASSOCIATION





National Network, Local Connections Programme

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NATIONAL NETWORK, LOCAL CONNECTIONS PROGRAMME

ES3

Advisory Council Meeting 3 Minutes & Actions Sign off

Meeting Minutes found here: Action Log: advisory-council-meeting-2-minutes-final.pdf (esbnetworks.ie)

| Item | Торіс | Detail | Status | Progress |
|------|---|---|--------------------|---|
| | DSO/TSO Multi-Year Plan Consultation | Request for a webinar to be Mid January. | Closed | Closed. This Consultation was delayed but is now closed for responses. The slide deck from the Roundtable session is included in Appendix A |
| | DSO/TSO Multi-Year Plan Consultation | Request made to publish webinars online. | Open | This facility is not currently available. ESBN is reviewing the website with a view to adding functionality |
| | DSO/TSO Multi-Year Plan Consultation | Request made by NN,LC for Council Members to share content within their organisations to spread awareness | Closed | |
| | DSO/TSO Multi-Year Plan Consultation | CRU to review the timelines, based on consensus that 6 weeks was acceptable | Closed | Closed as the Consultation is now closed to public responses |
| | Flexibility Multi-Year Plan Consultation | The subject of Carbon abatement raised. Discussion on the establishment of a sub-group to address | Open | |
| 6 | Pilot 4 A&B Connections | NN,LC to provide up-date on impact to customers of any delays | Moving to Close | NN,LCP have identify the qualifying Projects for Pilot 4 and significant 1:1 engagement has taken place. Projects are now considering Modifications to their applications |
| 7 | Advisory Council Membership | Request made for nominations for new members to Advisory Council in order to expand representation | Closed | 2 new external members nominated and approved representing Storage |



Multi-year Plan Consultations Status Up-date



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Visibility Multiyear Plan

NATIONAL NETWORK, LOCAL CONNECTIONS PROGRAMME

DOC-100223-GYO

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. . . . Consultation closed. Plan being up-dated to include responses received

DSO/TSO Multi-Year Plan 2023 - 2027

Joint System Operator Programme February 2023



Consultation closed. Plan being up-dated to include responses received

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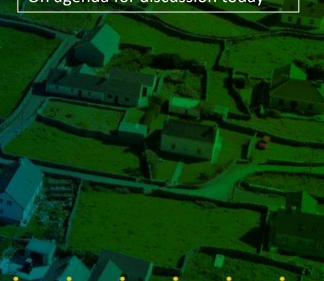
Flexibility Multiyear Plan

NATIONAL NETWORK, LOCAL CONNECTIONS PROGRAMME

following consultation in Q4 2021



On agenda for discussion today



NATIONAL NETWORK, LOCAL CONNECTIONS PROGRAMME

ES3

Flexibility Multi-year Plan Work Plan 2023



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Flexibility MYP | Draft Major 2023 Milestones

| LEVEL | DATE | MILESTONE | DESCRIPTION | PR5 OBJECTIVE |
|-------|---------|--|--|--------------------------|
| Major | H1 2023 | Dynamic Instructions Sets Go-Live | Week-ahead and day-ahead scheduling of individual demand sites within DSUs commences, replacing annual instruction sets. | New Products & Services |
| Major | H1 2023 | Publication of 15 – 20% Strategy & Scenarios Consultation | Publication of 15 – 20% Strategy Paper | Transparency & Reporting |
| Major | H2 2023 | Mullingar Local Flexibility Market go-live | Multiple flexibility schemes operating within the pilot area go live, including customers down to domestic level. | Non Wire Alternatives |
| Major | H2 2023 | Flexible Access Available (New flexible connection products) | RESS-1 projects can connect on a non-firm basis (for N-1 events). | Non Wire Alternatives |
| Major | H2 2023 | CVR: Accelerated roll-out of CVR | Conservation reduction scheme to address winter security of supply challenges. | Non Wire Alternatives |
| Major | H2 2023 | BTP Carbon Reduction Product Go-Live | Go-Live of a domestic behavioural flexibility scheme designed to reduce carbon emissions | New Products & Services |
| Major | H2 2023 | First 15-20% Flexibility Schemes Call to Competition | Call to competition goes live . Based on current information, likely that these target medium duration storage and Large Industrial customers, but pending outcomes of H1 15-20% Strategy Consultation | New Products & Services |
| Major | H2 2023 | Scale-up of BTP Schemes | Consolidating and increasing participation in highest impact BTP Scheme(s) | New Products & Services |



Flexibility MYP | Draft Minor 2023 Milestones

| LEVEL | DATE | MILESTONE | DESCRIPTION | PR5 OBJECTIVE |
|-------|---------|---|--|--------------------------|
| Minor | H1 2023 | Proposition Development (med. | Development of Market Products for Storage and Large Industrial Sectors | New Products & Services |
| | | duration storage & industrial customers | *Pending outcomes of H1 15-20% Strategy | |
| Minor | H1 2023 | System Strength (Short Circuit Level) Studies Complete | Foundational system profiling and analysis to enable the design and introduction of future system strength flexibility products | Non Wire Alternatives |
| Minor | H1 2023 | Information Note on Flexible Access (New flexible connection products) | Information paper on Flexible Access | Non Wire Alternatives |
| Minor | H1 2023 | Increase awareness of BTP schemes | Increase awareness of BTP schemes through appropriate media and communicable channels | Transparency & Reporting |
| Minor | H1 2023 | 15-20% Sectoral Research Complete | Sectoral research enabling the definition of commercial sector flexibility services calls to competition for 2024 launch. | Transparency & Reporting |
| Minor | H1 2023 | 15-20% Technology Solution Defined | Technology Strategy: Options analysis & Recommendation | Transparency & Reporting |
| Minor | H2 2023 | Customer Identification, Engagement | Market testing of products for Storage and Large Industrial Sectors | New Products & Services |
| | | and Proposition Testing | *Pending outcomes of H1 15-20% Strategy Consultation | |
| Minor | H2 2023 | Local community dashboards go-live | Local Community dashboards' available for a pilot group of sustainable energy communities, providing local and community-specific information including renewables and electricity carbon intensity. | New Products & Services |
| Minor | H2 2023 | Dynamic Stability Studies Complete | Foundational system profiling and analysis to enable effective TSO/DSO coordination | Non Wire Alternatives |
| Minor | H2 2023 | Location and System Analysis | Location and System Analysis for Storage and Large Industrial Sector Locations | Non Wire Alternatives |
| | | | *Pending outcomes of H1 15-20% Strategy Consultation | |
| Minor | H2 2023 | Smart Inverter Pilot | Go-live of Smart inverter pilot in preparation, to support increased mini generation connections, by reducing the requirement for export limitation and reducing connection costs | Non Wire Alternatives |
| Minor | H2 2023 | Mullingar: Second round of flexibility schemes procurement | Procurement for a number of flexibility schemes to operate within the pilot area, including customers down to domestic level and the launch of new products. | Non Wire Alternatives |



Flexibility MYP | Draft Minor 2023 Milestones

| LEVEL | DATE | MILESTONE | DESCRIPTION | PR5 GROUPING |
|-------|---------|-----------------------------------|--|--------------------------|
| Minor | H2 2023 | Pilot learnings published | Pilot 1 (Commercial flexibility) Year 1 learnings published | Transparency & Reporting |
| | | | Pilot 3a (Commercial flexibility) Winter 1 learnings published | |
| | | | Pilot 6 (Domestic Flexibility) Wave 1 learnings published | |
| | | | Pilot 7a (Active Management – CVR) Wave 1 learnings published | |
| Minor | H2 2023 | Standard industry reporting | Establishment of initial standard market and regulatory reporting on the procurement and dispatch of | Transparency & Reporting |
| | | | DSO flexibility. Critical to building transparency and supporting flexibility market liquidity. | |
| Minor | H2 2023 | Tools and supports to enable | Community Energy Participation: Development of tools and supports progressed to enable community | Transparency & Reporting |
| | | community energy participation in | energy participation in flexibility. | |
| | | flexibility progressed | | |



Questions

- Do you need a few clarifications?
- Can you see the sector or customers you represent in these milestones?
- Do you think any of the minor milestones should be prioritized as major?
- Do you / the sector or customers you represent value the major milestones?
- Are there additional major or minor milestones you think should be prioritized ahead of those included?



15-20% Flexibility by 2025

15-20% Strategy for Consultation

Abridged Version



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NN,LC Programme Scope & Approach

Discovery led approach, in collaboration with

NN,LC Scope & Role within ESB Networks

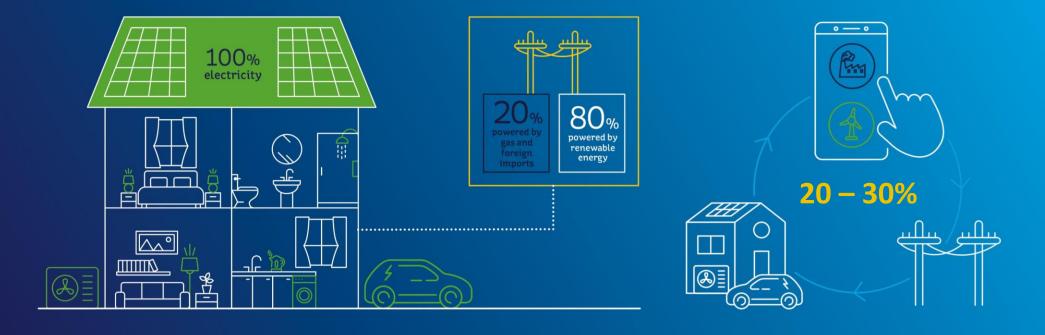
- Define & introduce a new DSO role, as per <u>CRU PR5</u> <u>Determination</u> and <u>ESB</u> <u>Networks Strategy</u>
- DSO role in delivering 15-20% flexibility by 2025.
- DSO role in delivering 20-30% flexibility by 2030

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It's 2030 What are our vital statistics?



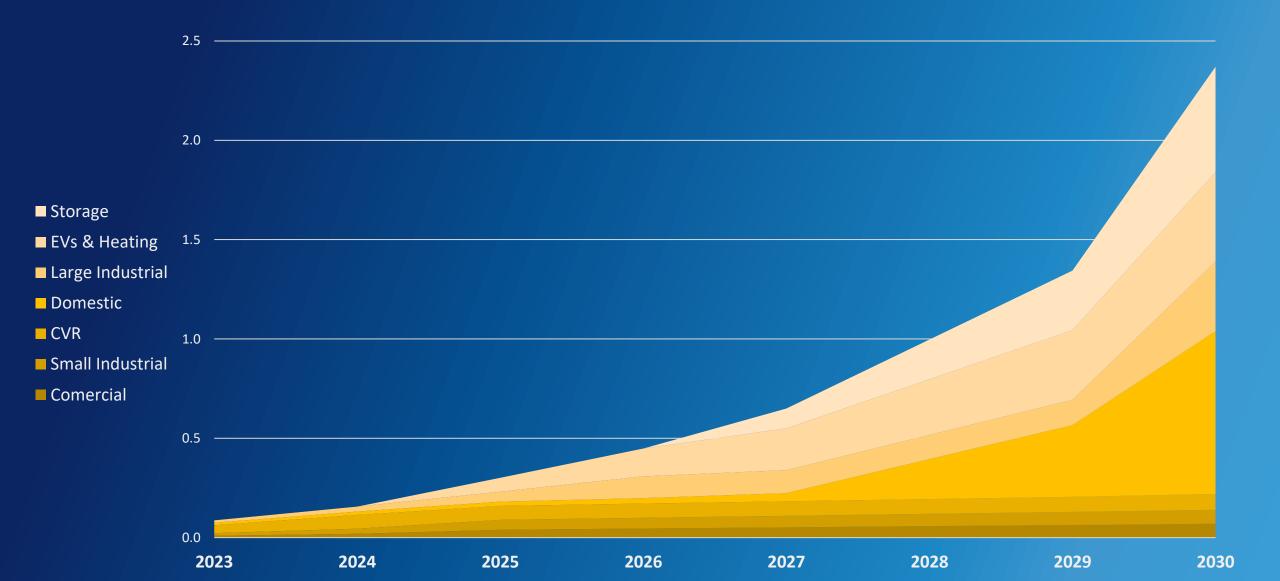
10-12 TWh of additional demand, incl. 5-6 TWh heat & transport adding 3-3.5 GW peak demand (+65%)

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

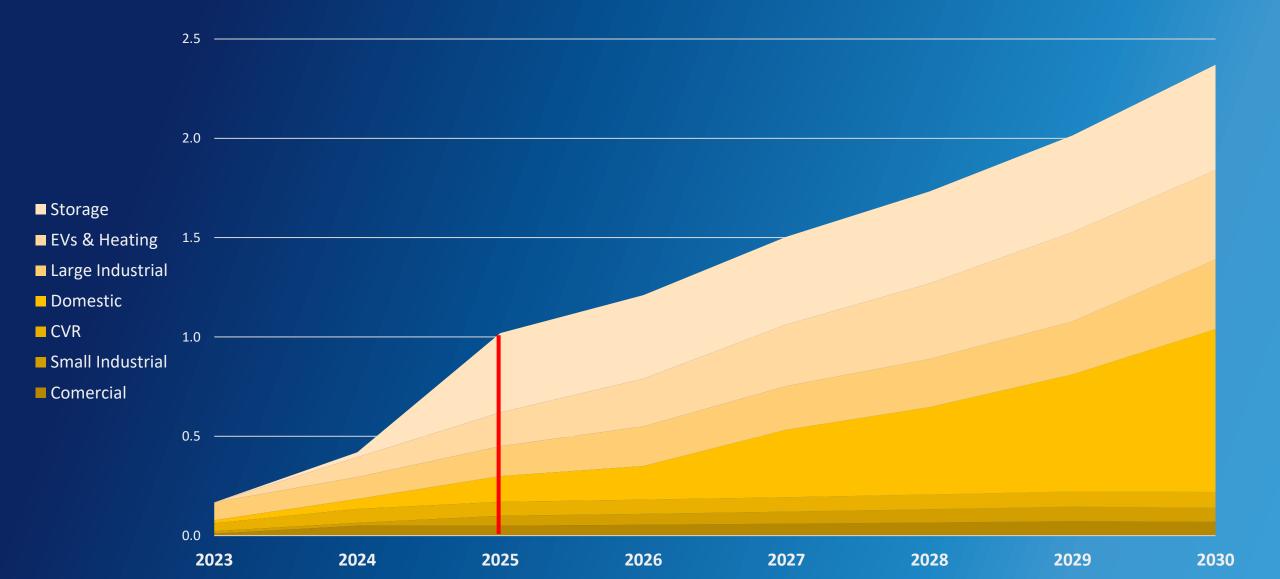
1 - 10 TWh of flexibility (1.4 - 2.4 GW) 0.86 MT CO₂ abatement p.a.



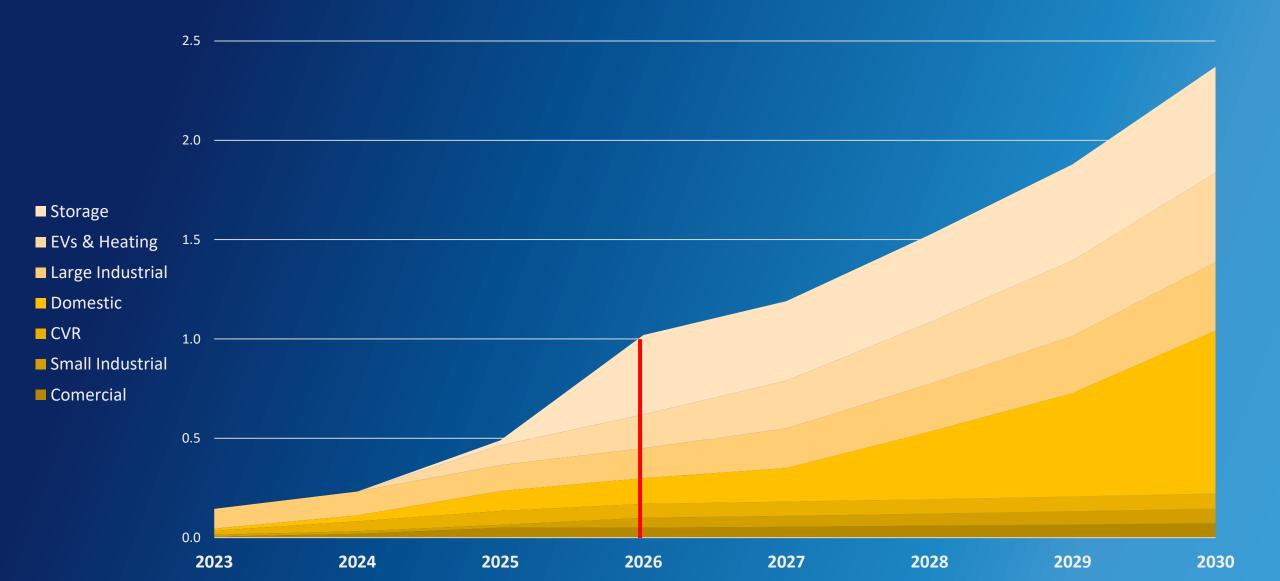
2023 - 2030 Pre CAP23



2023 - 2030 CAP23



2023 - 2030 Scenario used for Baseline Plan





WORKING DEFINITION

15-20% Flexibility | Working Definition (Descriptive)

"Flexible system demand" is the ability of electricity system demand to respond to changing states of generation, demand, storage and network conditions.

- *It is characterised by direct system operator actions, coupled with individual/collective customer behaviour.*
- It is measured as a % of peak system demand, but is not necessarily available at peak system demand (or intended to be).
- It includes demand increases and decreases, which may be simultaneous or occur at different times, for different reasons.

"Carbon abatement" attributable to demand side flexibility (i.e. scope of this particular target) is carbon consumption that is avoided directly as a result of flexibility

Incudes

<u>Contracted flexibility</u>

- To either TSO, DSO or both in relevant markets
- To suppliers, and <u>responsive</u> but not "trac

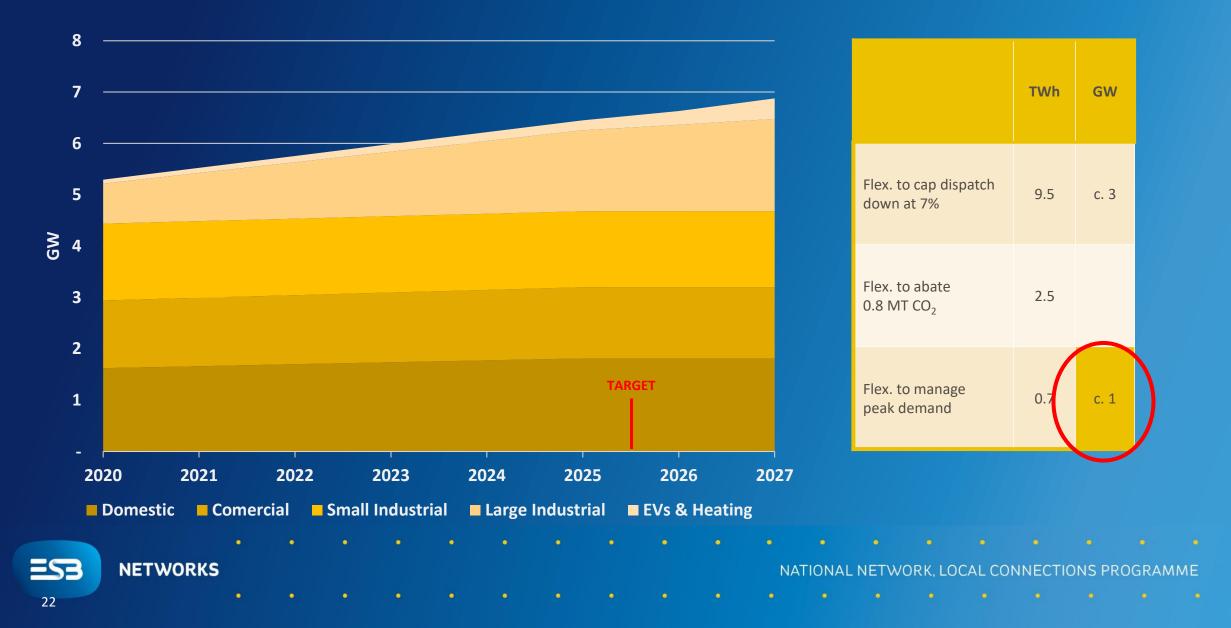
Flexibility Readiness

- ✓ Flexible connection agreement
- Flexibility readiness ("equipped")
- <u>Technologically enabled flexibility</u>
 - Dynamic voltage regulation (CVR)
 - ✓ Med / long duration storage
 - ✓ Behind-the-meter generation (e.g. CHP, diesel)
 - **Behavioural flexibility**, including achieved via dedicated educational measures (hard to measure)

Excludes

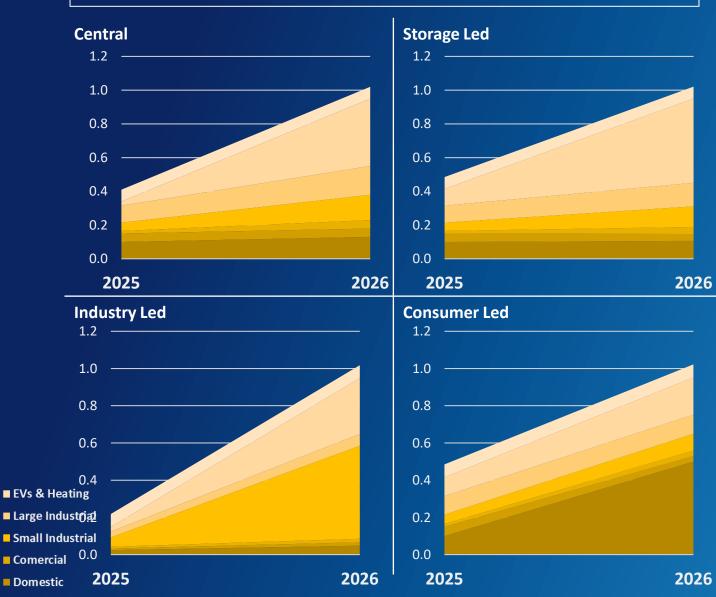
- Supply-side flexibility e.g.
- ✓ Storage providing dynamic response, fast reserves
- ✓ DSUs providing DS3 services
- Flexible supply side technologies (e.g. synch. compensation)
- ✓ Flexible generation
- ✓ Flexible renewables connections
- DSUs participating in the capacity market are not in line w. intent but to be reported separately as a related volume.
- **NOTE** Some flexibility abates carbon, other flexibility adds carbon. Some of the flexibility used to achieve the 15-20% will result in increased emissions, in which case a higher volume of flexibility is needed to achieve the carbon abatement target.

Definition of the Target Numeric Definition



2. To Deliver CAP 2023 targets Scenarios & Testing

Evidence Based (initially)

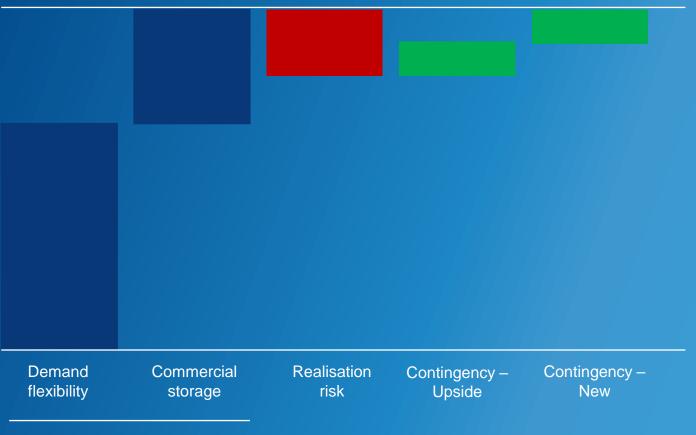


Discovery Led (thereafter) Market Viability & Readiness Market Market Research Market Testing Engagement 2023 **Q1** 02 **Q3** 04 🛣 "Fast follow" ☆ Storage research & ☆ DG6/7 research ★ BTP-Carbon results research ☆ Domestic PV research ☆ Domestic PV eng. ★ LEU research & eng. ☆ Storage research & **A** Farmers PV research ☆ Transport standards eng. ☆ LEU research & eng ★ Transport standards eng eng 🛠 Social housing eng. 2024 ★ Storage PQQ responses

Central Pathway Expert Validation

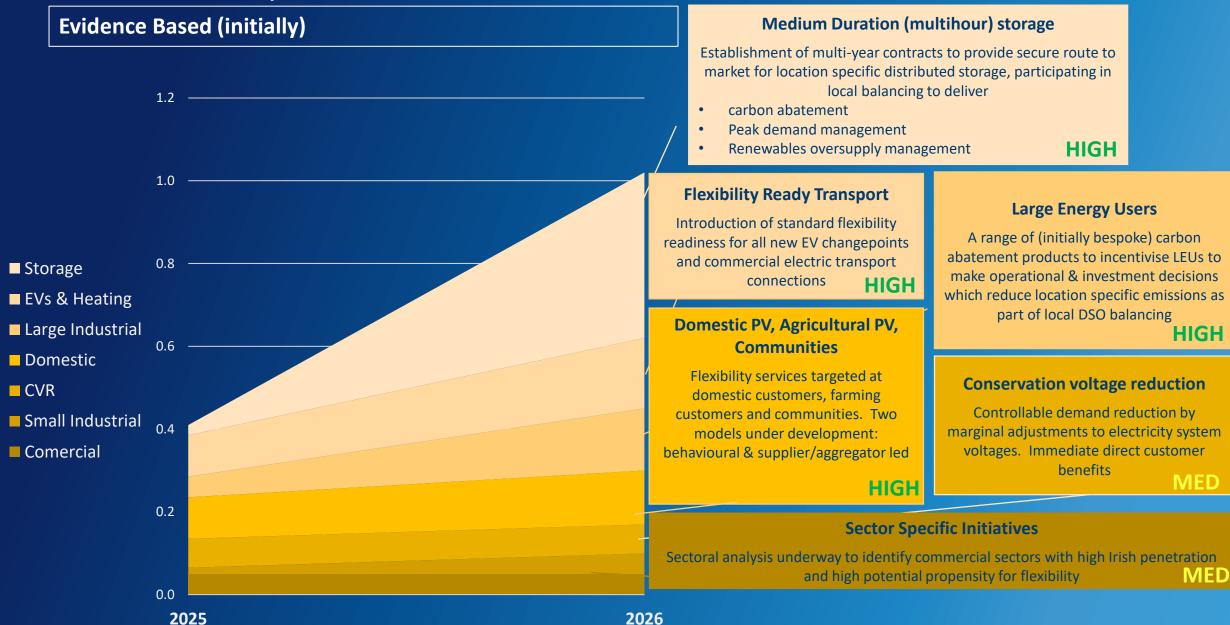
- Flexibility has big theoretical potential
- But the results of real world trials and scale deployment is varied. Getting customer to participate is very hard
- There is a high dependency upon mandates, technology interoperability and effective markets and commercial incentives
- The approach has a central scenario for flexibility provided by demand, which is contingent upon customer participation.
 Commercial storage – an infrastructure-based solution – closes the gap
- There is risk to realising target flexibility and so contingency opportunities have also been identified. These contingencies include upside on the central scenario and new opportunities

15-20% target

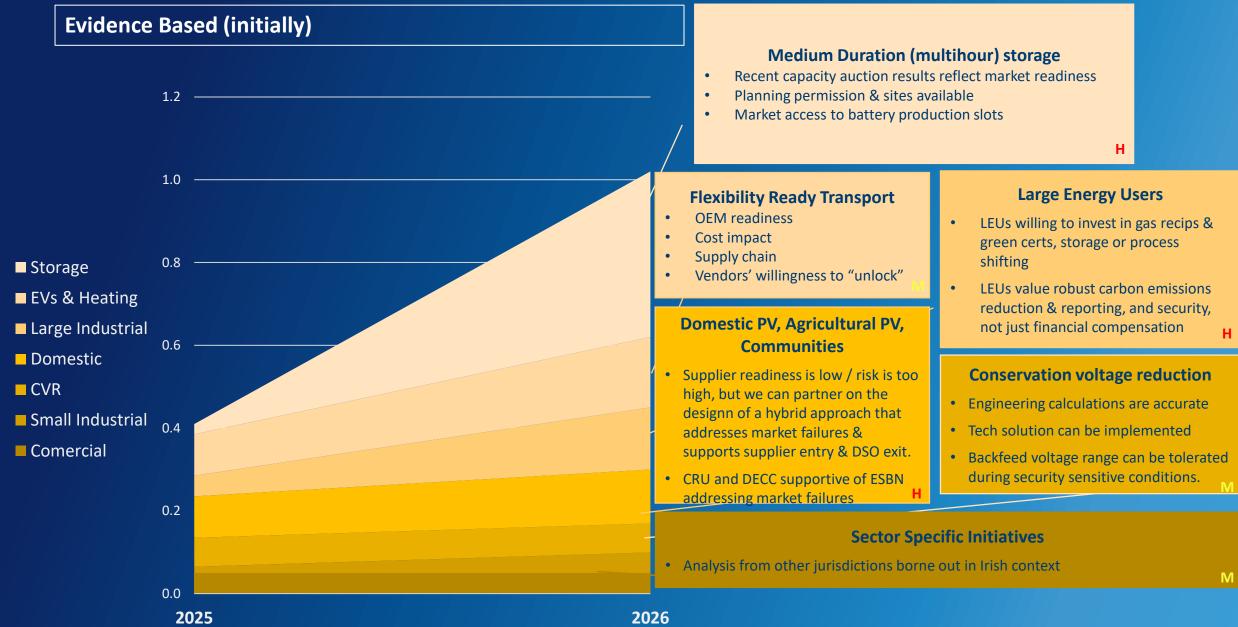


Central scenario

Central Pathway Proposals & Impact



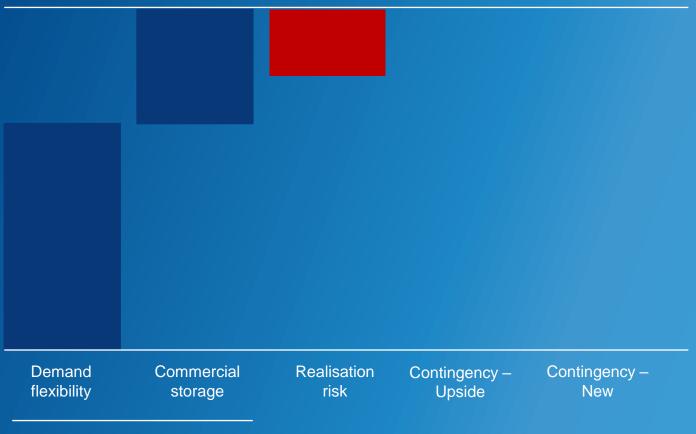
Central Pathway Key Assumptions & Priorities for Testing



Central Pathway Expert Validation

- Flexibility has big theoretical potential
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 Commercial storage – an infrastructure-based solution – closes the gap
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15-20% target



Central scenario

| | | | | | Strong body of supporting evidence both for individual customer flexibility and willingness to participate at scale | | | |
|--|--------------------|-----------------------|--|---|---|---|---|--|
| Central Pathway Expert Confidence & Mitigation | | fidence & Mitigations | | | Robust proof points from participating customers, but limited precedent at target scale / evidence of voluntary participation challenges . | | | |
| Evidence Based (initially) | | | Low Co | onfidence | Limited supporting evidenc | hly context specific | | |
| | | | Medium Duration (multihour) storage | | | | | |
| | 1.2 | | Confidence | e Key obse | rvations | Recon | nmended Mitigations | |
| | 1.0 | | L commercial certainty and accelerate planning | | accele & cert | Engagement on statutory planning acceleration required commercial model & certainty to progress to a timeline that hits 2026 commissioning | | |
| | | | | | Flexibility Read | dy Tra | nsport | |
| | | | Confidence | • Key Obse | ervations | | Recommended Mitigations | |
| Storage EVs & Heating Large Industrial Domestic | 0.8 | | м | concel partici trial ar on opt | pation in an opt in model is rn e.g. CrowdFlex had a pation rate of 11-26% in EV nd Dutch experience is 1% u t-in flexible charging => mov atory model | ToU ptake | Engage with stakeholders to understand technical constraints and regulatory models to support opt-out / mandatory requirements | |
| CVR | | | | Large Energy Users | | | | |
| Small Industrial | 0.4 | | Confiden ce | Key Observ | rations | 1 | Recommended Mitigations | |
| Comercial | 0.2 | | Industrial H | UK partiIrish indi | in EU analysis ² cipation estimate 10% of pe ustry mix is largely batch pro > conducive to demand flexi | ocess | Uptake contingent on production process – batch / job shop (food) vs. continuous production (steel, refining). Detailed assessment of Irish industrial mix | |
| | 0.0 2025 | 2026 | Data Cetnres M | location Contingent | estimate of flex across back & time shifting and UPS ¹ ent upon willingness to ate against customer SLAs | k-up, | Engage with both hyperscale and colocation DC providers to understand willingness, technical / asset readiness and necessary economic incentives | |

| Central I | Central PathwayExpert Confidence & MitigationsEvidence Based (initially) | | | High confidence | Strong body of supporting real world evidence both for individual customer flexibility and willingness to participate at scale | | | |
|--|--|---------|--|---|--|---|---|--|
| Evidence | | | | Med Confidence | | ating customers, but limited success tary participation challenges . | | |
| | 1.2 | | | Low Confidence | Limited supporting eviden | ce / high | nly context specific | |
| | | | | | Domestic | PV | | |
| | | | Confiden | Key observat | ions | | Recommended Mitigations | |
| ■ Storage ■ EVs & Heating | 1.0 0.8 | | М | Residentia residential UK Crowdl turn up frc Low partic smart for t for turn up | a mandatory model given challenges with | | | |
| Large Industrial | | | | | | | | |
| Domestic | 0.6 | | Conservation voltage reduc | | | uction | | |
| | | | Confidenc | e Key Observat | ions | Recom | mended Mitigations | |
| CVR Small Industrial Comercial | 0.4 | 0.4 | М | Average model voltage reducti | nalysis GW potential of up to 0.09 lled CVR factor of 0.77, modelled ion range 0.5% - 4.5% (average 1.52%) 0.09, a technological solution would llace | Imple 'Ever • Netw | ress definition of a technological solution ement a hybrid between 'Always On' and nt-based' vork improvements can increase the headroom emporary voltage reduction | |
| | | | Sector Specific Commercial Initiatives | | | | nitiatives | |
| | 0.2 | | Confidenc | | | | Recommended Mitigations | |
| | 0.0 | | М | building electriParticipation ir | various studies found a 15-30% reducti c power demand via demand response ⁶ n commercial real estate is complicated stween owner, building manager & tena | s by the | Engage with public sector building managers & decision makers to understand willingness to participate across the public sector estate | |
| | | 202 202 | 26 | | | | | |

Central Pathway Expert Validation – Upside Opportunities

1. Upside on existing opportunities

| Opportunity | Upside potential | Next steps | 15-20% target | | | |
|--|---|--|--|---------------------|-------------------------|----------------------|
| Commercial: dairy farm back-up generation and other commercial back-up | 140k dairy farms in Ireland, significant portion expected to have back-up generation sized to milking load as milking has to be resilient to loss of supply Other back-up generation not already contracted in the capacity market | Research to identify total installed back-up generation capacity including generators powered by farm tractors | | | | |
| Residential: non-PV households | Selected PV households given higher likelihood of participation as assumed 10% load flexibility. Potential to extend to all households and achieve higher proportion e.g. in line with CrowdFlex trials | Extend the analysis to non-EV households and consider range of residential peak demand | | | | |
| Data centres: full flex potential across back- up, location & | BNEF available flex estimate for data centres in Ireland is nearly 10x the 2026 target given the potential of back-up and UPS in | Create data centre range, recognising that only a subset of operators may be willing | Demand Commercial flexibility storage | Realisation risk | Contingency – Upside | Contingency – New |
| time shifting and UPS | addition to location and time shifting | to participate | Central scenario | | | |

Central Pathway Expert Validation – Upside Opportunities

2. Pipeline opportunities

| Opportunity | Upside potential | Next steps | | | | | |
|--|--|--|------------------------|---------------------|-------------|---------------|---------------|
| Residential behind the meter storage | Residential storage could be attractive to address V / PQ issues at LV feeders with high penetration of DG / EVs / heat pumps as an alternative to LV reinforcement (w. associated cost and disruption) Larger battery installations have superior cost economics, but cannot address LV challenges. Value of reinforcement deferral or avoidance of LV may match the inferior unit cost economics | Identify scale of opportunity at an LV level based upon current and forecast power quality issues and assess whether this would provide a material amount of incremental flexibility | 15-20% target | | | | |
| MV substation community storage | Storage at MV substations could address thermal constraints as an alternative to reinforcement and provide increased flexibility | Assess MV storage as an alternative to reinforcement & scale of opportunity | | | | | |
| Electrolysers | Electrolysers if / when green H2 production scales CAP analysis on green H2 production identifies no planned electrolyser capacity pre-2030, so this would require accelerated green hydrogen production | Watching brief on green H2 progress. Influence policy decisions on role of H2 in whole system approach to decarbonisation | Demand | Commercial | Realisation | Contingency – | Contingency – |
| V2G | V2G has the potential to increase the flexibility potential of EVs beyond what is possible with smart charging. But significant technology challenges to be overcome. | Watching brief on the development of V2G | flexibility Central | storage scenario | risk | Upside | New |



2. To Deliver CAP 2023 targets 9-Month Look-Ahead

Thank You! Round Table

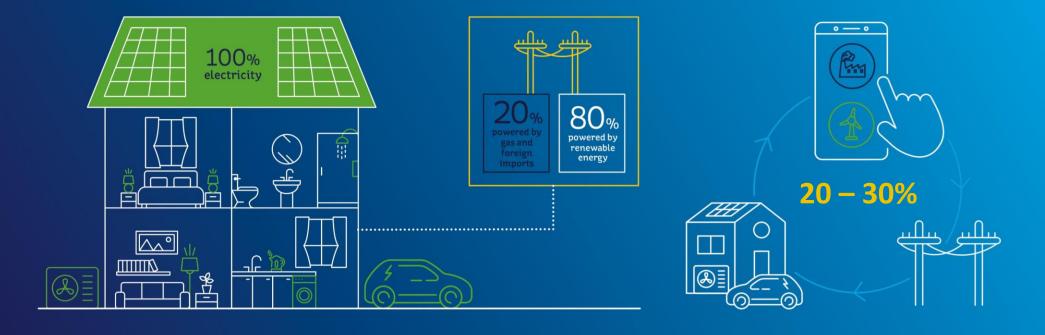


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[Abridged] 15-20% Flexibility by 2025



It's 2030 What are our vital statistics?



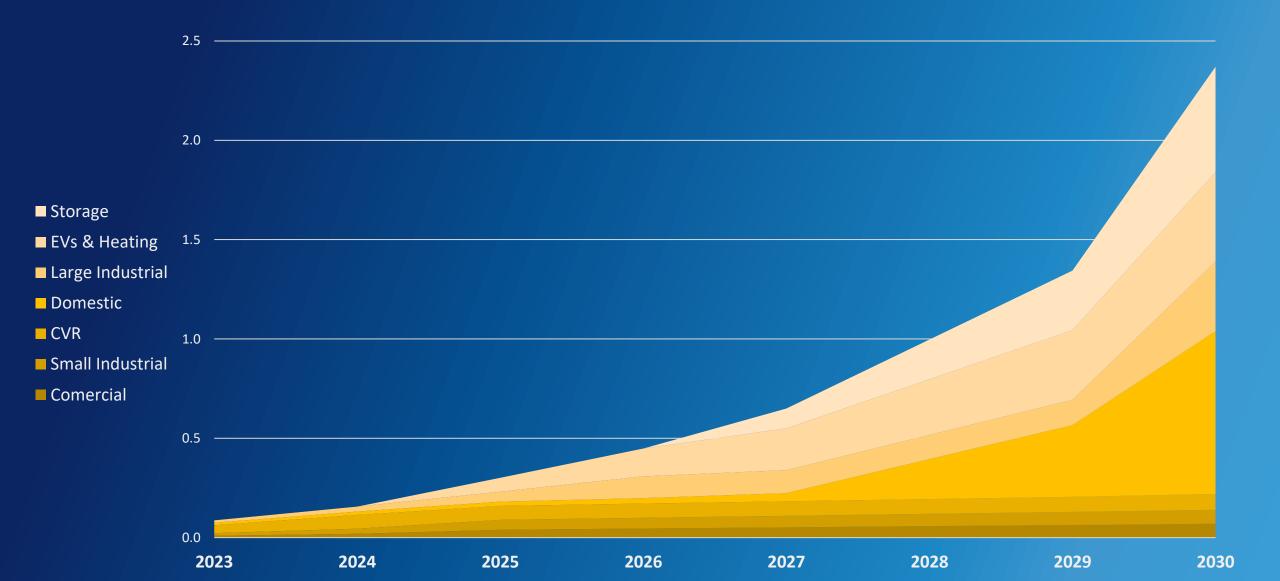
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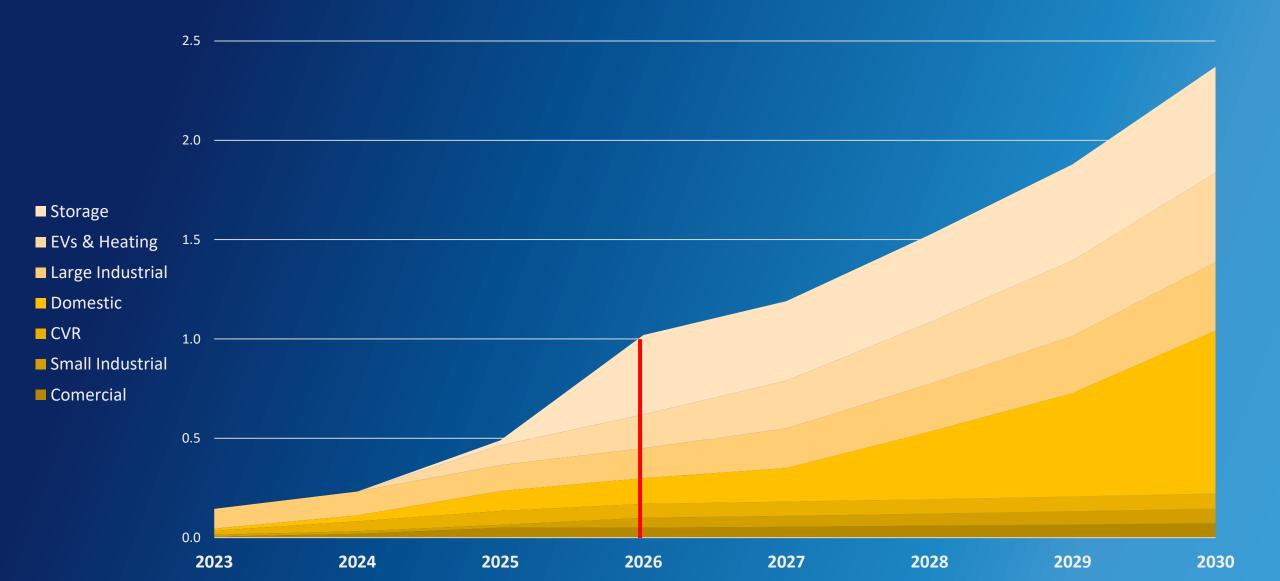
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2023 - 2030 Pre CAP23



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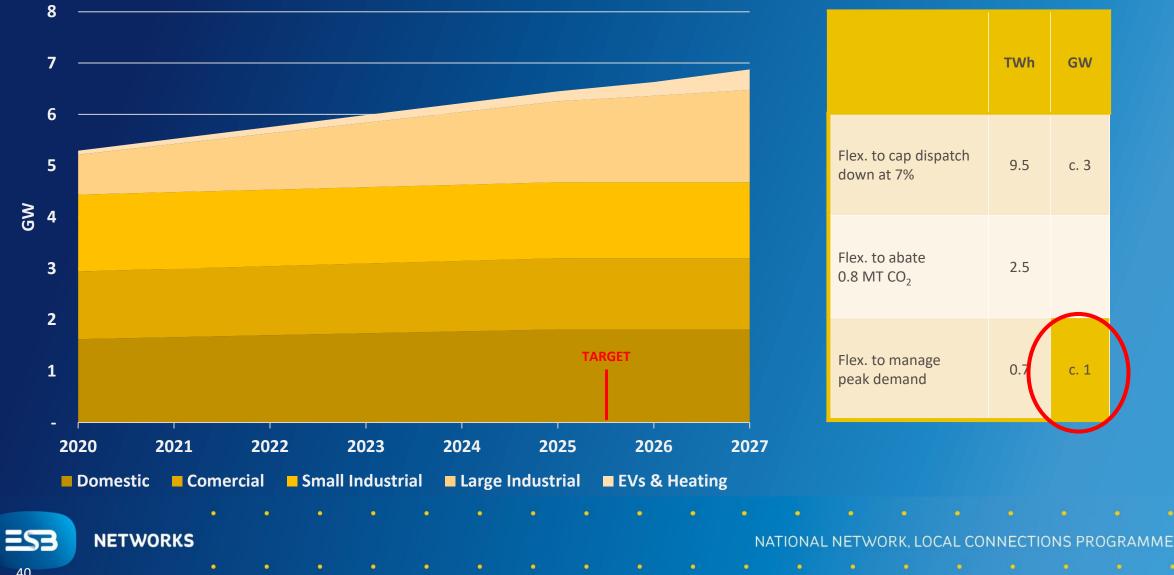
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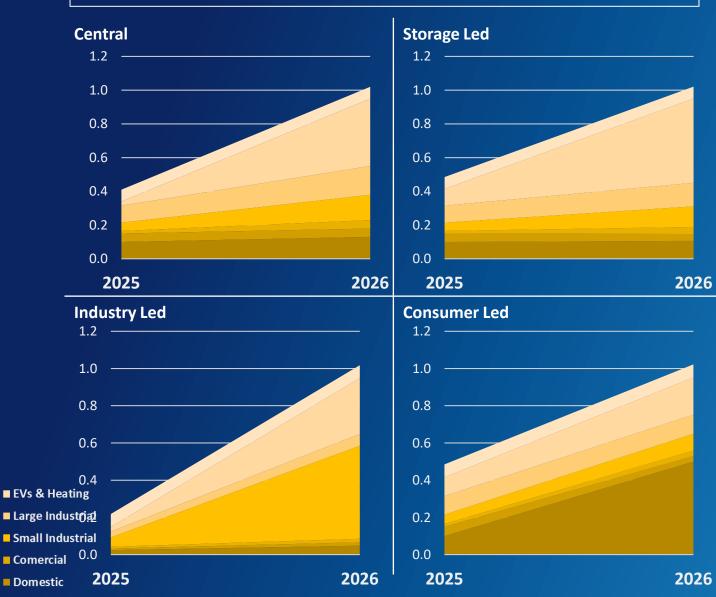
Definition of the Target Numeric Definition



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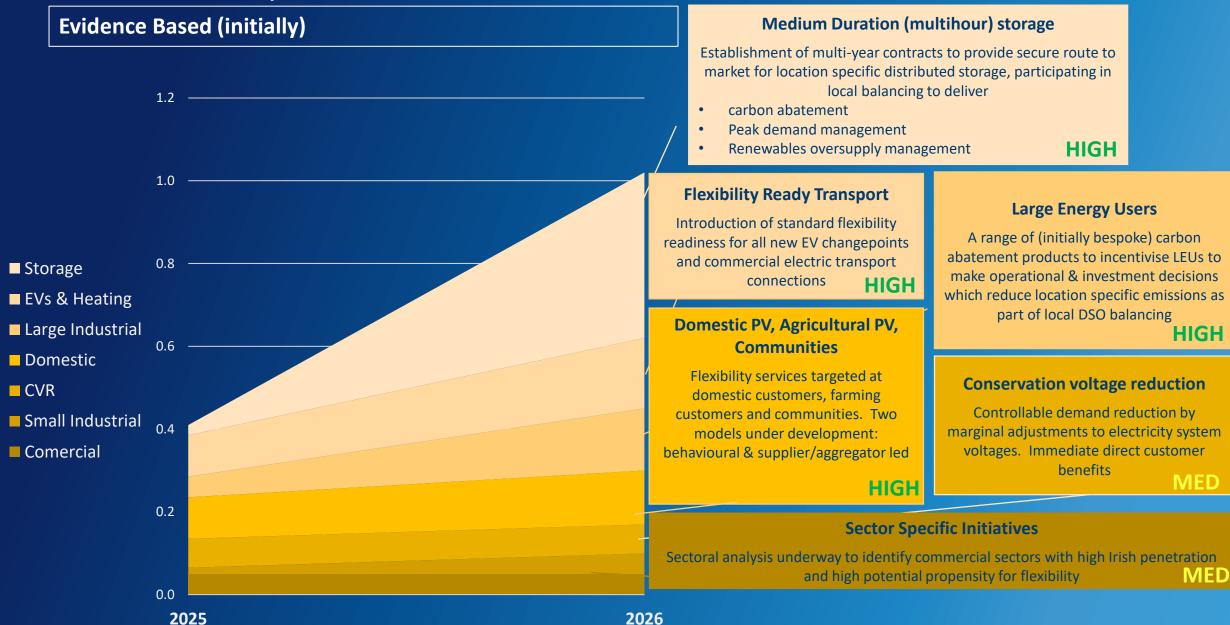
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Evidence Based (initially)

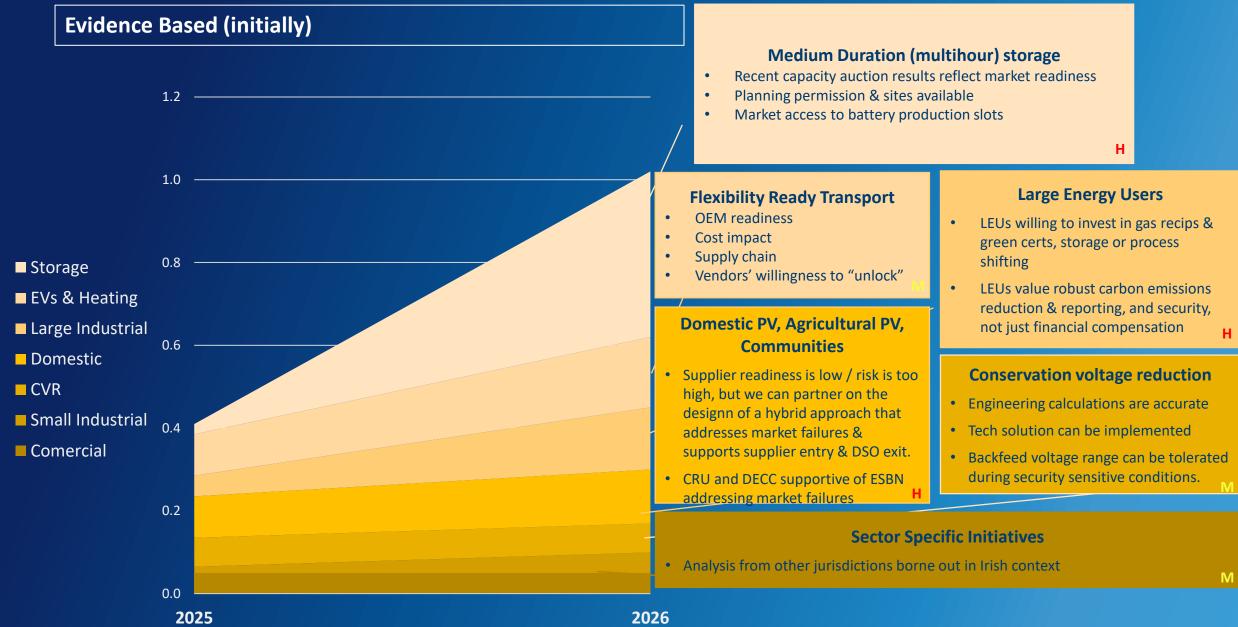


Discovery Led (thereafter) Market Viability & Readiness Market Market Research Market Testing Engagement 2023 **Q1** 02 **Q3** 04 🛣 "Fast follow" ☆ Storage research & ☆ DG6/7 research ★ BTP-Carbon results research ☆ Domestic PV research ☆ Domestic PV eng. ★ LEU research & eng. ☆ Storage research & **A** Farmers PV research ☆ Transport standards eng. ☆ LEU research & eng ★ Transport standards eng eng 🛠 Social housing eng. 2024 ★ Storage PQQ responses

Central Pathway Proposals & Impact



Central Pathway Key Assumptions & Priorities for Testing





2. To Deliver CAP 2023 targets 9-Month Look-Ahead

Thank You! Round Table



NETWORKS

Appendix A.



NETWORKS

Multi-Year Plan Roundtable session

DSO/TSO roundtable session was held on March 2^{nd.} The content from that session is here:



Adobe Acrobat

Visibility roundtable session was held on March 16th. The content from that session is here:



dobe Acrobat Document

