

FUTURE NETWORKS FORUM

THE WORKSTREAMS & INITIATIVES – A CLOSER LOOK



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LEADING THE FUTURE OF NETWORKS Hei arahi i te heke mai o nga whatunga*

FUTURE NETWORKS FORUM

PURPOSE

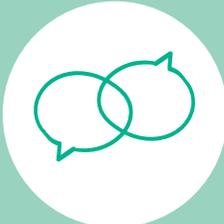
We come together to harness the collective power of EDBs to help Aotearoa New Zealand reach its climate goals, by:

- Exploring the future and aligning expectations
- Providing a forum for collaborating with our EDB colleagues and our stakeholders
- Bringing the Network Transformation Roadmap to life through collaboration towards its objectives
- Strengthening the mana and influence of EDBs and the ENA

AMBITION

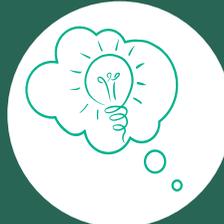
Success for us will mean:

- EDBs have shared expectations of potential future scenarios, and our role in enabling the transition
- EDBs understand and are enabling our consumers' and stakeholders' ambitions
- EDBs are collectively evolving through collaboration, with priorities being delivered efficiently and at pace
- There is a high degree of confidence in the distribution sector enabling an affordable and equitable transition to a reliable, decarbonised energy system



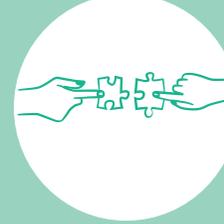
Outreach with Purpose

1. Develop a deliberate engagement plan, including external comms
2. Understand our consumers' and stakeholders' evolving needs and pain points in their interfaces with us
3. Test our direction, development plans and solutions with other ENA working groups, relevant industry groups and stakeholders.



Exploring Strategic Context

1. Explore and agree key assumptions, inflection points and 2050 scenarios.
2. Understand customer segmentation and the decarbonisation journey.
3. Explore and agree roles and functions of the EDB of the future.



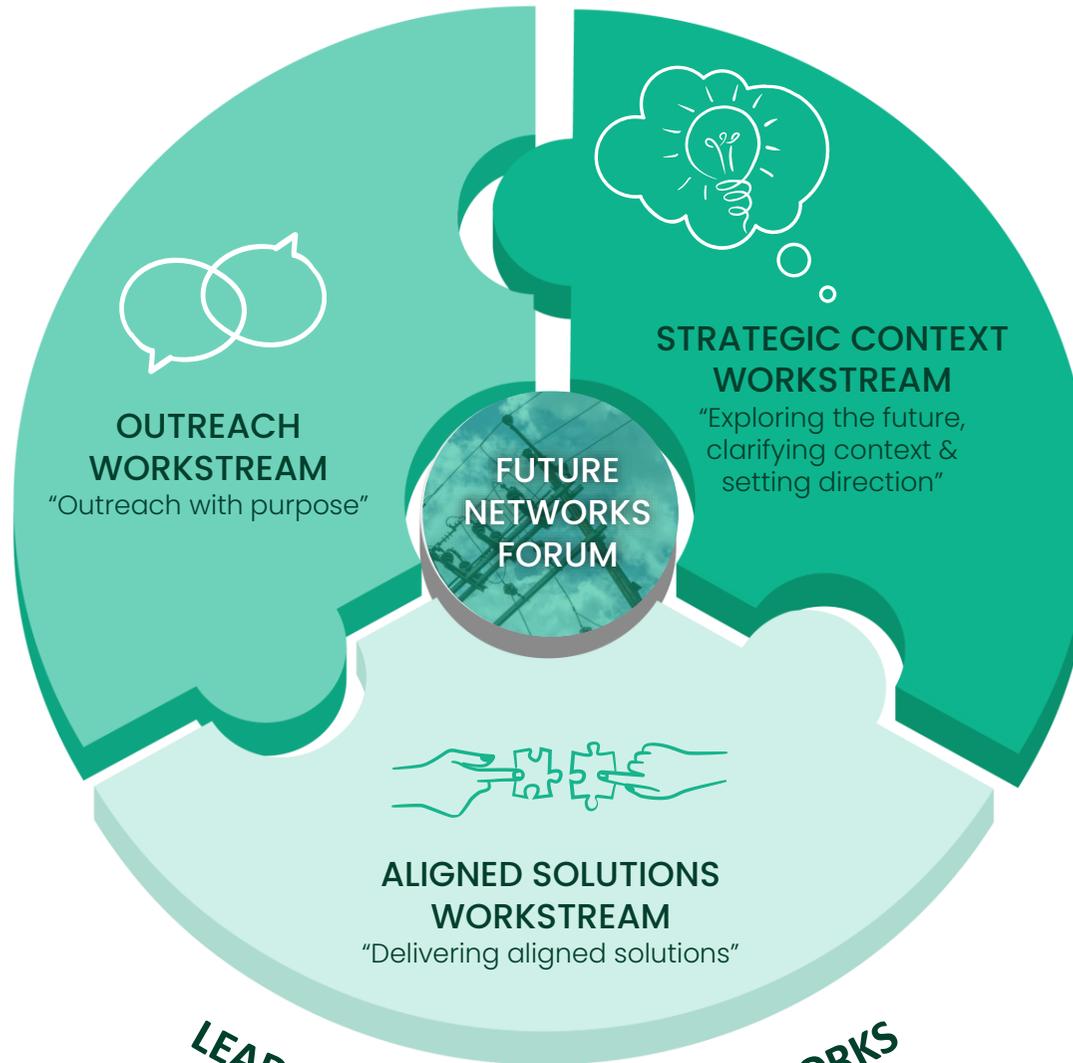
Delivering Aligned Solutions

1. Collaborate and coordinate with EDBs, the EEA, retailers, flexibility providers, DG investors, Transpower and other stakeholders to develop aligned solutions that work for the whole system.

WORKSTREAMS

* Wording needs to be reviewed by an expert in Te Reo

Our Workstreams have been set up to deliver focused pieces of work that, as they progress, will work in unison to deliver on our overall FNF purpose and ambition.

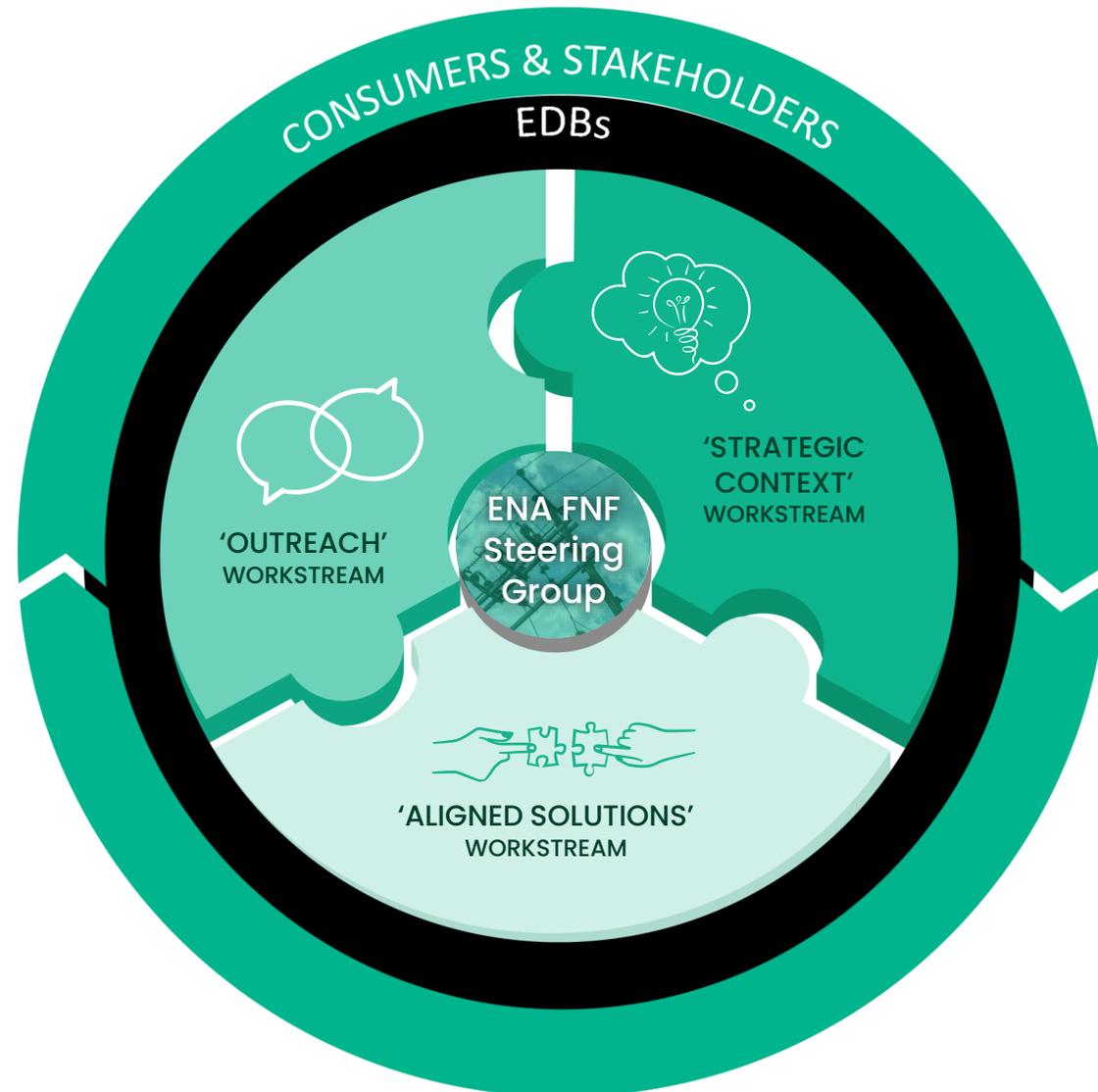


LEADING THE FUTURE OF NETWORKS
Hei arahi i te heke mai o nga whatunga

āhuarangi.
kiritaki.
mahi ngātahi.

climate.
customers.
collaboration.

The FNF has been grounded in establishing how we will work together, and the channels we will use to seek input, update our stakeholders, and to better inform our progress.



<p>ENA FNF STEERING GROUP</p>	<p>Purpose:</p> <ul style="list-style-type: none"> - Facilitate coordinated progress towards FNF purpose & outcomes. - Monitor and evolve the NTR. - Establish working groups as needed. <p>Who: FNF Co-Chairs, ENA Manager Policy & Innovation, workstream reps, ex-officios (open to EDB staff for diversity & transparency)</p>
<p>WORKSTREAMS</p>	<p>Purpose:</p> <ul style="list-style-type: none"> - Facilitate progress towards workstream objectives. - Initiate projects as needed. <p>Who: Workstream co-leads, project leads, ENA Manager Policy & Innovation, ex-officios (open to EDB staff for diversity & transparency)</p>
<p>EDBs</p>	<p>Innovation Forum (Quarterly)</p> <p>Purpose:</p> <ul style="list-style-type: none"> - Enable all EDB staff to contribute to the FNF outcomes: report progress; seek input on priorities and plans; ID ppl / resources for workstreams; etc. - Space for EDBs to share own work. <p>Who: Open to any EDB staff member + invited stakeholders</p>
<p>CONSUMERS & STAKEHOLDERS</p>	<p>'Unconference' (Annually):</p> <p>Purpose:</p> <ul style="list-style-type: none"> - Participant-driven space for EDBs, consumers & stakeholders to collaboratively explore matters of common interest. <p>Who: EDBs + Stakeholders / Customers</p>

Part of establishing how we will work together has been to also identify how we will evaluate the FNF’s performance and the measures we will use.

	 FNF OUTCOMES (SUCCESS/ AMBITION)	 FNF OBJECTIVES (PURPOSE)	 INDICATORS	 MEASURE / MILESTONE	 TARGET (FY24 YE)
1	EDBs have shared expectations of potential future scenarios, and our role in enabling the transition.	Explore the future and align expectations	ENA member (CEO) feedback on the value of the FNF’s activities to: a) their organisation and b) the EDB sector.	<ul style="list-style-type: none"> a. FNF white paper delivered outlining potential future roles and functions of EDBs, where member views align / differ and why, and recommended next steps. Number of EDBs endorsing the paper. b. FNF paper describing EDB customer segments (consumers, retailers, aggregators, generators, SO, etc) together with current and future needs and pain points, based on robust customer research. c. Number of FNF deliverables which directly address identified customer pain points. Customer feedback on these deliverables. 	<ul style="list-style-type: none"> • FY24 will benchmark measures to enable target setting in future years.
2	EDBs understand and are enabling our consumers’ and stakeholders’ ambitions	Provide a forum for collaborating with our EDB colleagues and our stakeholders	Consumer* feedback on EDBs as an enabler of their energy aspirations.	<ul style="list-style-type: none"> a. Number of Innovation Forum participants, and feedback on value of event. b. Number of Unconference participants, and feedback on value of event. 	
3	EDBs are collectively evolving through collaboration, with priorities being delivered efficiently and at pace	Bring the Network Transformation Roadmap to life through collaboration towards its objectives	EDB connected customer* feedback on consistency of customer experience across EDBs, where this matters.	<ul style="list-style-type: none"> a. % of NTR actions assessed by EDB reps as Green / Amber / Red for their organisations. b. % of NTR actions which FNF has supported through collaborative action. 	
4	There is a high degree of confidence in the distribution sector enabling an affordable and equitable transition to a reliable, decarbonised energy system	Strengthen the mana and influence of EDBs and the ENA	Stakeholder* feedback on EDBs as an enabler of the transition to a low carbon, resilient and equitable energy future.	<ul style="list-style-type: none"> a. Number of FNF interactions with key stakeholders and partners (Govt, Regulators, MEUG, ERANZ, EEA, Flex Forum, SEANZ, etc) 	

All initiatives identified or proposed by the FNF have been / will be subject to this Prioritisation Framework.

WORKSTREAM INITIATIVE		TIMEFRAME		EDB IMPACT		EXTERNAL IMPACT			STAKEHOLDER IMPACT		CUSTOMER IMPACT		OVERALL SCORE	
		URGENCY REQUIRED	TIME TO IMPLEMENT	FINANCIAL RISK	LEVEL OF UNCERTAINTY	AFFORDABLE	SUSTAINABLE	RELIABLE	REGULATORY RISK	REPUTATION IMPACT	U/STAND & INSIGHT	ENABLE CHOICE		
STRATEGIC CONTEXT	1	Explore 2050 scenarios, assumptions and inflection points and share findings with FNF	3	2	3	2	1	2	3	1	3	2	2	24/33
	2	Carry out a customer segmentation, and decarbonisation journey mapping exercise	3	2	2	2	1	2	2	2	2	2	2	22/33
	3	Decarbonisation Strategy	2	2	2	2	2	3	1	2	2	2	2	22/33
	4	Energy Trilemma	2	2	1	2	3	1	1	2	2	2	2	20/33
	5	EDB Future Roles & Functions	2	3	1	3	3	2	3	3	3	2	2	27/33
	6	Community Energy	1	1	1	2	2	2	1	1	2	2	2	17/33
STRATEGIC CONTEXT	7	Energy Hardship	2	1	1	2	2	2	1	1	2	3	2	19/33
	8	Community/Utility Storage	2	1	1	2	2	2	2	2	2	2	2	20/33
	9	Common Network Model	1	1	1	2	1	1	2	1	1	2	2	15/33
	10	Flexibility Opportunities	2	2	2	2	3	2	2	2	2	2	2	23/33
	11	LV Network Design	2	1	3	2	2	2	2	1	2	2	2	21/33
ALIGNED SOLUTIONS	1	SO EDB Interface for DER Management	3	2	2	3	2	2	3	1	2	2	2	24/33
	2	Flex Supplier & EDB Capacity & Constraints Management	3	3	2	2	2	2	2	1	2	2	2	23/33
	3	LV Data Visibility	3	2	2	2	2	2	2	1	2	2	2	22/33
	4	Domestic Hot Water Load Management (To be merged with Initiative #1)	2	2	2	2	2	1	2	1	1	2	2	19/33
	5	EV Charger Management & Integration	3	3	3	2	2	3	1	1	2	2	3	25/33

SCORING TOOL

1	No urgency Output 2yrs+	Estimated 12+ months	Percentage of RAB < 2%	Certainty with aligned strategy	Consumer price < 5%	No measurable carbon / sustainability impact	No measurable impact to reliability	Fine or loss of revenue allowance < 2%	No measurable impact	Good confidence in understanding	Current choice likely to meet expectations
2	Moderate urgency Output 1-2 yrs	Estimated < 12 months	2% to 5%	Uncertainty is leading to mixed approaches	5% to 10%	Carbon / sustainability objective at risk	< 10%	2% to 5%	Some loss of confidence in the EDB sector	Some understanding exists	Limited choice may be insufficient
3	Very urgent Output < 1yr	Estimated < 6 months	> 5%	Uncertainty is leading to no action	> 10%	Prevents carbon objective being met	> 10%	> 5%	Potential loss of license to operate	Limited current understanding	Current level of choice will not meet need

Highest total score = highest priority

ALL INITIATIVES SUPPORTED & ENABLED THROUGH OUTREACH WORKSTREAM

WORKSTREAM PLANS

IN SUMMARY

A SNAPSHOT OF THE WORK UNDERWAY

OUTREACH WITH PURPOSE WORKSTREAM - PLAN ON A PAGE

(JULY 2023 - JUNE 2024)



DESCRIPTION

1. Develop a deliberate engagement plan, including external comms
2. Understand our consumers' and stakeholders' evolving needs and pain points in their interfaces with us
3. Test our direction, development plans and solutions with other ENA working groups, relevant industry groups and stakeholders.

WORKSTREAM LEADS

- Kim Parker - Unison
- Pete Armstrong – EA Networks
- Oli Vincent - Powerco

WORKSTREAM TEAM MEMBERS

- Lisa Gloag – Aurora Energy
- Michelle Agnew – Alpine Energy
- Rachel Wansbone – Northpower

CONTRIBUTION TO FNF

FNF OBJECTIVE THIS WORKSTREAM ALIGNS TO

Provide a forum for collaborating with our EDB colleagues and our external stakeholders

+
Strengthen the mana and influence of EDBs and the ENA

HOW IT CONTRIBUTES

- Provides channels for collaborating and engagement
- Identifies stakeholders and enables timely and purposeful engagement
- Lifts profile of ENA and EDBs through timely, relevant and considered engagement delivery

KEY STAKEHOLDERS

- FNF
- EDB Employees
- ENA + Board
- Transpower
- Government bodies

- Industry Regulators
- Industry bodies
- Industry partners – Retailers, Aggregators etc

INITIATIVE PLANNED	INITIATIVE OBJECTIVE	DEPENDENCY / RISK OF INACTION	DELIVERABLES	LINK TO FLEXFORUM (FF) + NTR
1. QUARTERLY INNOVATION FORUMS	Provide a channel to share ideas and progress with our EDB peers	EDB engagement with FNF to get wide attendance / Low engagement will limit EDB adoption of FNF solutions	Jul-23 Forum complete Nov-23 Forum being planned	FF DISCOVER: INFORMATION & EDUCATION NTR UNDERSTANDING: CONSUMER INSIGHTS
2. ANNUAL 'UNCONFERENCE'	Bring EDBs, Customers and Stakeholders together to discuss items of common and topical interest	Engagement with EDBs, customers and stakeholders to get meaningful attendance / Low engagement produces little outcome	Proposed date Feb-24	
3. DEVELOP AN FNF STAKEHOLDER ENGAGEMENT PLAN	Develop a comprehensive plan to identify key stakeholders, their influences and interests, and key messages / channels	Sufficient resource to develop plan, and engagement needs developed by WS2 and WS3 / Engagement plan incomplete or too late to be effective	Q4	
4. EXECUTE STAKEHOLDER ENGAGEMENT PLAN	Keep stakeholders informed and engaged through deliberate, timely and ongoing communications & engagement	Resource to generate material for engagement / Engagement fails to get traction	Q4 – lead into Unconference	

RESOURCES

BUDGET BREAKDOWN

Events	4 x Innovation Forums Unconference
Engagement Plan	Drafting resource

ADDITIONAL RESOURCES

- Project resources needed
- Communications resource needed – ENA comms support
- Logistics / events delivery resources needed
- Creative design / digital and video content resource

KEY RISK FOR YEAR AHEAD

- Engagement plan cut through with busy stakeholders
- Wider EDB lack of buy in to FNF objectives and solutions, leads to disunity

- Resource for engagement plan to be completed in time for WS consultation

STRATEGIC CONTEXT WORKSTREAM - PLAN ON A PAGE

(JULY 2023 - JUNE 2024)

DESCRIPTION

1. Explore and agree key assumptions, inflection points and 2050 scenarios.
2. Understand customer segmentation and the decarbonisation journey.
3. Explore and agree roles and functions of the EDB of the future.

WORKSTREAM LEADS

- Glenn Coates – Aurora Energy
- Saurabh Rajvanshi – The Lines Company

WORKSTREAM TEAM MEMBERS

- Andrew Mulligan - Mainpower
- Gaganpreet Chada - Unison
- Dylan Andrews - Electra
- Feng Wu - Horizon
- Evie Trollove - Orion
- Malcolm Cleland - Transpower
- Kavi Singh - PowerNet
- Nick Carter - Electra
- Weihao Zhou – Waipa Networks
- Ryno Verster – Powerco
- James Tipping – Vector

CONTRIBUTION TO FNF



FNF OBJECTIVE THIS WORKSTREAM ALIGNS TO

Explore the future & align expectations



HOW IT CONTRIBUTES

- Leads 2050 scenarios research / response
- Defines future EDB roles and functions
- Understands customer segments and future expectations
- Aligns decarbonisation initiatives & flexibility opportunities

KEY STAKEHOLDERS

- FNF
- EDB Employees
- ENA + Board
- Transpower
- Government bodies
- Industry Regulators
- Industry bodies
- Industry partners – Retailers, Aggregators etc



INITIATIVE PLANNED

INITIATIVE OBJECTIVE

DEPENDENCY / RISK OF INACTION

DELIVERABLES

LINK TO FLEXFORUM (FF) + NTR

INITIATIVE PLANNED	INITIATIVE OBJECTIVE	DEPENDENCY / RISK OF INACTION	DELIVERABLES	LINK TO FLEXFORUM (FF) + NTR
1. 2050 SCENARIOS	Influence the 2050 scenarios (Sapere work) and share progress with the ENA.	DEPENDENT ON SAPERE REPORT COMPLETION / ●	Q2	FF DISCOVER: INFORMATION & EDUCATION NTR UNDERSTANDING: MONITOR UNCERTAINTIES
2. CUSTOMER SEGMENTATION & JOURNEY MAPPING	Harness customer insights to segment different customer groups and develop personas to understand their needs and ambitions.	DEPENDENT ON REVIEW OF EXTERNAL RELATED WORK / ●	Q4	FF DISCOVER: INFORMATION & EDUCATION NTR UNDERSTANDING: CUSTOMER INSIGHTS
3. EDB FUTURE ROLES & FUNCTIONS	Develop plausible and preferred future EDB roles, operating models and functions.	DEPENDENT ON CUSTOMER SEGMENTATION / ●	Q4	FF ACCESS: MULTIPLE NTR UNDERSTANDING: MONITOR UNCERTAINTIES
4. DECARBONISATION STRATEGY	Develop a decarbonisation strategy that delivers consistency and alignment across EDBs	DEPENDENT ON CUSTOMER SEGMENTATION / ●	Q1 2024	FF ACCESS: MULTIPLE NTR ENABLING: MULTIPLE
5. FLEXIBILITY OPPORTUNITIES	Map flexibility opportunities to customer segments.	DEPENDENT ON CUSTOMER SEGMENTATION / ●	Q1 2024	FF ACCESS: MULTIPLE NTR ENABLING: MULTIPLE

RESOURCES



BUDGET BREAKDOWN

ADDITIONAL RESOURCES

- CX suppliers / research agencies
- Area expert consultants as required
- Project support resources as needed

KEY RISKS FOR YEAR AHEAD

- Work progressing in relation to dependencies
- Stakeholder feedback changing the course or direction of initiatives

ALIGNED SOLUTIONS WORKSTREAM - PLAN ON A PAGE

(JULY 2023 - JUNE 2024)

DESCRIPTION

1. Collaborate and coordinate with the sector to develop aligned solutions (EDBs, the EEA, retailers, flexibility providers, DG investors, Transpower and other stakeholders)
2. Deliver aligned solutions that work for the whole system.

WORKSTREAM LEADS

- Craig Conlan – Network Waitaki
- Lingsong Zheng - WEL

WORKSTREAM TEAM MEMBERS

- Matt Smith - Vector
- Murray Henderson – Transpower
- Dyson Gentle - PowerNet
- Chris Knight - Counties
- Adrian Nadan - Counties
- Isabelle LeQuellec - Orion
- Garry Heyes – Orion
- Jackson Lung – Wellington Electricity
- Weihao Zhou – Waipa Networks
- Francis Cheng - Horizon
- Renato Bitac – Aurora Energy
- Damien Whiffen – Alpine Energy

CONTRIBUTION TO FNF



FNF OBJECTIVE THIS WORKSTREAM ALIGNS TO

Bring the Network Transformation Roadmap to life through collaboration towards its objectives.



HOW IT CONTRIBUTES

- Develops EDB / SO interface for DER management
- Aligns solutions for EDBs/Flexibility Suppliers for managing capacity & constraints
- Aligns options for EV charger management & cost optimisation

KEY STAKEHOLDERS

- Electricity customers
- Flexibility Suppliers / Aggregators
- Transpower SO
- Retailers
- ENA members
- EDBs
- FlexForum
- Our regulators



INITIATIVE PLANNED

INITIATIVE OBJECTIVE

DEPENDENCY / RISK OF INACTION

DELIVERABLES

LINK TO FLEXFORUM (FF) + NTR

1.	SO & EDB INTERFACE TO MANAGE HIGH PENETRATION DER (INCLUDING HOT WATER LOAD MANAGEMENT)	Develop an interface between EDBs and the SO to enable optimal use of DERs & the future use of hot water load management	Support from stakeholders/ non-alignment of solutions	Dec 2023	FF ACCESS, ENABLE & OPERATE : MULTIPLE NTR ENABLING: TECHNICAL ARRANGEMENTS
2.	FLEXIBILITY SUPPLIERS & EDB NETWORK CAPACITY & CONSTRAINTS INFORMATION	Develop aligned solution for consistent information sharing between EDBs and flexibility providers on areas of constraint	Support from stakeholders/ non-alignment of solutions	Dec 2023	FF ACCESS, ENABLE & OPERATE : MULTIPLE NTR ENABLING: TECHNICAL ARRANGEMENTS
3.	EV CHARGER MANAGEMENT & OPTIMISATION	Understand options for EV charging management and cost optimisation	Support from stakeholders/ non-alignment of solutions	Dec 2023	FF ACCESS, ENABLE & OPERATE : MULTIPLE NTR ENABLING: TECHNICAL ARRANGEMENTS

RESOURCES



BUDGET BREAKDOWN

ADDITIONAL RESOURCES

Introductions to offshore experts

KEY RISK FOR YEAR AHEAD

- Receiving enough support from busy stakeholders
- Fast pace of change in the emerging technologies space

APPENDICES

INITIATIVE PLANS-ON-A-PAGE

IDENTIFIED INITIATIVES EXPLAINED

Outreach with Purpose Initiatives – Our Plan on a Page

**DRAFT SCOPING UNDERWAY
– NOT FINALISED**

INITIATIVE TEAM

Kim Parker, Pete Armstrong



OUTREACH WITH PURPOSE - INITIATIVES OVERVIEW

Objectives

Bring EDBs, Customers and Stakeholders together to build mutual understanding, share ideas, make progress and discuss matters of common interest.

Deliverables

1. A clearly defined and coordinated external stakeholder engagement plan that drives awareness and facilitates engagement and collaboration between stakeholders, customer and EDBs.
2. An EDB sector engagement plan, including events, to drive awareness, collaboration and participation in the FNF to ensure aligned processes, systems and solutions.
3. Established engagement channels, including face to face opportunities, to engage share ideas and information between external stakeholders, customers and the EDB sector

Key Steps Required

- Map stakeholders against areas of influence and interest as it relates to the initiatives of the FNF
- Identify key channels to engage
- Identify initiatives that require input / consultation / feedback – from EDB peers, the ENA, Customers and Sector Stakeholders
- Develop key messaging to align with key steps in FNF work programme
- Develop a calendar of regular events to optimise information sharing and progress updates between relevant parties

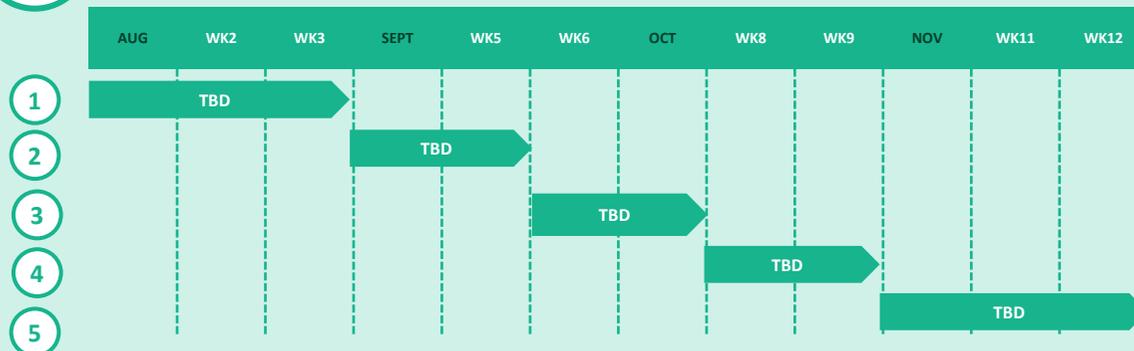


DEPENDENCIES

- Input from workstreams on stakeholder engagement needs



TIMELINE (NOT YET DETERMINED / TBD)



RESOURCES (NOT YET DETERMINED / TBD)

TIME



TBD

PEOPLE



TBD

BUDGET



TBD

INITIATIVE TEAM

Saurabh Rajvanshi (Lead), Evie Trolove, Ryno Verster

CUSTOMER SEGMENTATION INITIATIVE OVERVIEW

Objectives

The primary objective of the customer segmentation initiative is to build a shared understanding and common language amongst Energy Distribution Businesses (EDBs) about who their customers are, together with their expectations and approaches now and in the future – to enable EDBs to better prepare and collaborate towards a shared energy future.

For context, “customers” includes various types of consumers, retailers, aggregators, generators and system operators.

Deliverables

1. A clear definition of what a customer is, versus what a stakeholder is.
2. Clear customer segments across all services provided by EDBs, including key service-enabling customers (e.g. retailers, flexibility service providers, suppliers etc).
3. Personas for each customer segment.
4. Customer Value Proposition (CVP) defined for each persona/segment.
5. Socio-economic segmentation defined for mass-market persona/segment.
6. Journey mapping for each persona, identifying key touchpoints, trigger points, and customer expectations at each stage of their journey.
7. Provide a summary of common and predominant persona expectations across all customer segments
8. Recommendation to EDBs on possible customer focus areas to respond to key customer personas’ expectations of the distribution sector.
9. Recommendation for a mechanism/s for continuous testing and updating of customer segments, personas, journeys and customer expectations.
10. All findings above to be detailed in a report, outlining methodology used.

Key Steps Required

- Engaging with ENA members to incorporate/understand any existing work on customer segmentation, personas and journey mapping - and the approach and language used.
- Reviewing international examples and industry bodies' work to inform the analysis.
- Reviewing any relevant information from NZ entities such as Stats NZ, EECA, MBIE, ENA etc.
- Conducting a gap analysis to identify customer types not covered.
- Conducting consumer and stakeholder research to test and develop any new sub-segmentation, personas, and value propositions.
- Documenting, reflecting, testing, and refining gathered information to ensure accuracy.

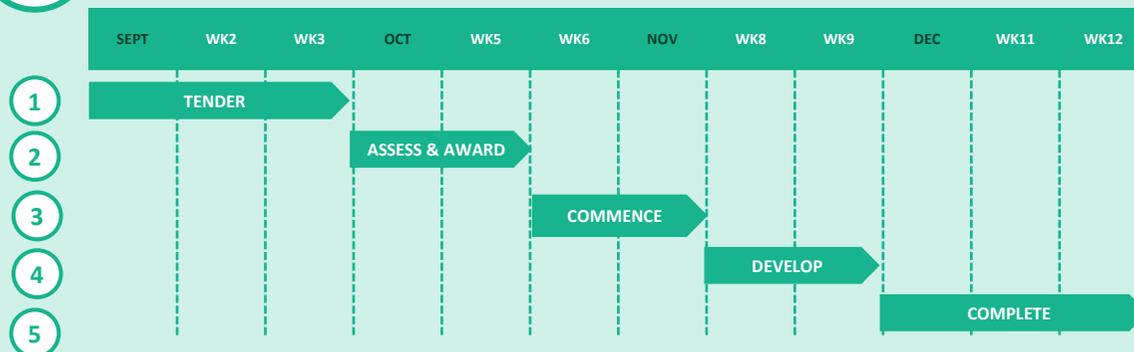


DEPENDENCIES

- Reference external related work (ie, Resi-Flex) nationally and internationally



TIMELINE (NOT YET DETERMINED / TBD)



RESOURCES (NOT YET DETERMINED / TBD)



Draft Decarbonisation Strategy Initiative – Our Plan on a Page

**DRAFT SCOPING UNDERWAY
– NOT FINALISED**

INITIATIVE TEAM

Kavi Singh (lead), Feng Wu, Malcolm Cleland Transpower

DECARBONISATION STRATEGY - INITIATIVE OVERVIEW

Objectives

The primary objective is to develop a decarbonisation strategy that delivers consistency and alignment across EDBs on providing network capacity in a cost-efficient and customer-centric manner to help customers achieve their decarbonisation goals, while balancing the interests of the EDB, and their communities and shareholders.

The intended outcome of strategy is to help EDBs develop policies, processes and services that enables customers to decarbonise in an efficient and coherent way.

Deliverables

Decarbonisation strategy for all customer segments that:

1. Enables consistency across EDBs in delivering a customer decarbonisation journey and experience that meets expectations of the customer
2. Provides clarity and transparency on end-to-end connection process
3. Provides the customer with adequate knowledge of the key roles and responsibilities of parties in the energy supply chain
4. Clarifies the trade-off between security of supply and costs
5. Summarises investment mix between network and customers and the impact on Regulated Asset Base (RAB) and revenue
6. Balances optimising network upgrades for growth and equitability for customers
7. Raises awareness of the impact of regulations for exempt and non-exempt EDBs on an EDB's ability to invest in decarbonisation upgrades
8. Accounts for the needs of the EDB's communities, shareholders and stakeholders, and the EDBs environmental, social and governance objectives
9. Considers engagement and coordination with other industry stakeholders such as Transpower, retailers, EA, EECA.

The strategy document to provide justification for the strategy and key considerations and recommendations that will inform EDB policies, processes and services, e.g., customer capital contribution, security of supply trade-off, customer service processes, criteria for prioritisation of customer capacity requests.

Key Steps Required

- ENA to finalise scope and select advisory services firm
- Consultation with EDBs, representative customers and key stakeholders on current approaches, issues, and opportunities
- Review similar work done internationally
- Development of draft strategy document and review by stakeholders (EDBs, Customer, Generator)
- Finalisation and communication of decarbonisation strategy

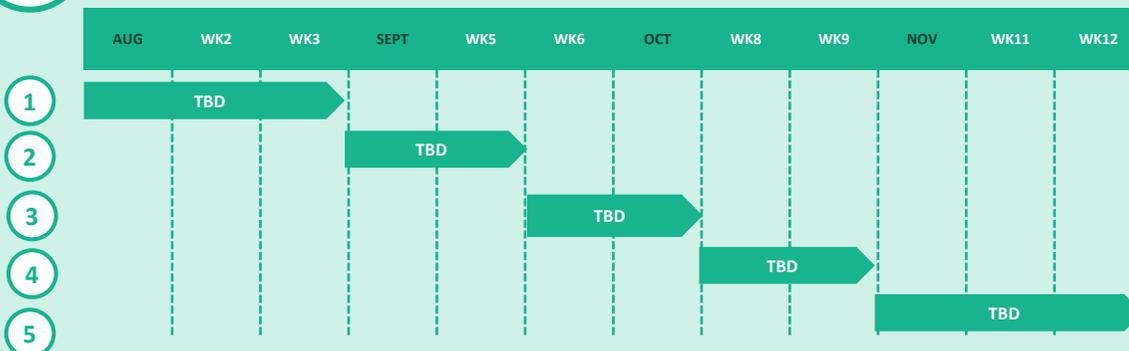


DEPENDENCIES

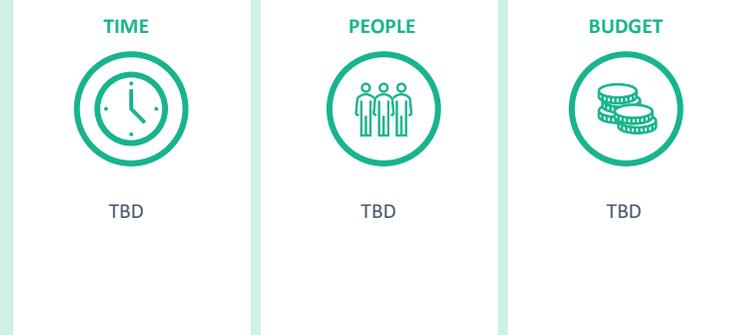
- Customer Segmentation



TIMELINE (NOT YET DETERMINED / TBD)



RESOURCES (NOT YET DETERMINED / TBD)



Draft EDB Future Roles & Functions Initiative – Our Plan on a Page

**DRAFT SCOPING UNDERWAY
– NOT FINALISED**

INITIATIVE TEAM

Evie Trolove (Lead), Glenn Coates

EDB FUTURE ROLES & FUNCTIONS - INITIATIVE OVERVIEW

Objectives

Establish a collective view of the future roles and functions of EDBs, including which of these are dependent on different operating models, to inform how these will be fulfilled.

This collective assessment will support EDBs to engage the wider sector on options, identify opportunities for further work and assist EDBs in preparing to fulfil relevant roles and functions.

Deliverables

1. Overview of current roles and functions (including where there is alignment, differences or signs of change).
2. High level definition of 3-4 potential future operating models (workshop input)
3. Options Assessment of EDB roles and functions for each potential market structure (workshop output)
4. Final report summarising the above and preferred roles and responsibilities
 - Where there is significant change expected in future roles and functions
 - Where there is consensus, uncertainty and key considerations
 - Key progress measures and indicators to monitor
 - Any recommendations for further work.

Key Steps Required

1. Engage consultant
2. Establish current state: Engage with ENA members to outline existing roles and functions across EDBs in NZ
3. Develop 'success criteria' or desired outcomes to assess operating models against e.g. consistent services across EDBs, cost efficient, ease of implementation
4. Define potential operating models: Define 3-4 potential operating models to prompt discussion on roles and functions (based on international and local insight including SIDG DSO Roadmap).
5. Assess EDB roles and functions: Workshop the future EDB roles and functions within each structure, define key touch points with other parties, and assess advantages and disadvantages.
6. Evaluate outcomes: Evaluate where there is consensus, least regrets actions, uncertainty and further work required.

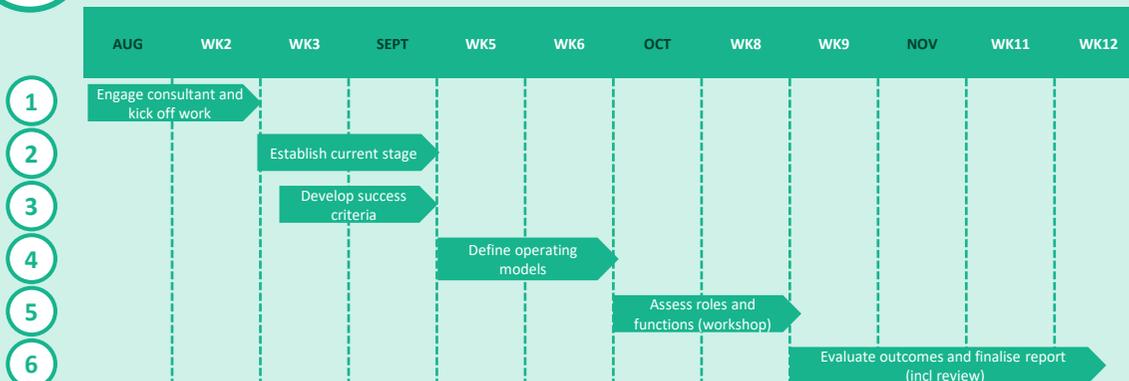


DEPENDENCIES

- Customer segmentation will feed into operating models and touch points.
- Flexibility Opportunities Initiative - TBC



TIMELINE



RESOURCES

TIME



4 MONTHS (AUG-NOV)

PEOPLE



PROJECT TEAM (Accountable), CONSULTANT (Responsible), EDB REPS (Consulted).

BUDGET



Draft Flexibility Opportunities Initiative – Our Plan on a Page

**DRAFT SCOPING UNDERWAY
– NOT FINALISED**

INITIATIVE TEAM

Gaganpreet Chadha (Lead), Saurabh Rajvanshi

FLEXIBILITY OPPORTUNITIES - INITIATIVE OVERVIEW

Objectives

The primary objectives are to:

- Understand the role and effectiveness of flexibility services for EDB’s operations. How does this work with the extended reserves?
- Understand the flexibility opportunities available within the different customer segments defined in “Customer Segmentation” initiative
- Understand the pricing and/or procurement mechanisms for these different flexibility options

Deliverables

Analysis, results and conclusions presented in a report that entails:

1. Clearly defined use cases and effectiveness (response step size, duration and cost) of:
 - pricing-based incentives to induce flexible response in the mass market
 - market based flexibility procurement for options that would help defer major capital investment

This would allow all flexibility participants to gain a common understanding of the circumstances and use-cases under which various flexibility options useful.
2. A feasibility assessment framework for EDBs to compare traditional network solutions with non-network flexibility options. This would include economic assessments along with probabilistic planning principles.

Key Steps Required

- Engage with ENA members to incorporate/understand any existing work in the flexibility domain (ie, Resi-Flex)
- Engage with FlexForum for their input and ensuring alignment with their workstreams
- Review use cases and models utilised in other jurisdictions such as UK, Australia etc
- Value mapping of customer segments to typical network constraints
- Development/adoption of a framework to compare traditional network options with flexible solutions
- Documenting, reflecting, testing, and refining gathered information to ensure accuracy

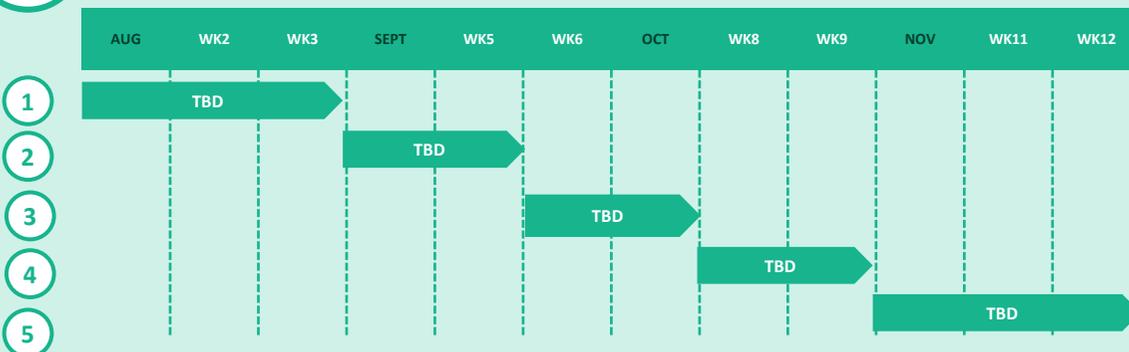


DEPENDENCIES

- Customer Segmentation
- 2050 Scenarios
- EDB Roles & Functions
- Review of all other industry related work in this area (ie, FlexForum, Resi-Flex etc)



TIMELINE (NOT YET DETERMINED / TBD)



RESOURCES (NOT YET DETERMINED / TBD)



Draft SO & EDB Interface for DER Management Initiative – Our Plan on a Page

**DRAFT SCOPING UNDERWAY
– NOT FINALISED**

INITIATIVE TEAM

Murray Henderson, Transpower (Lead),
Chris Knight, Damien Whiffen, Isabelle
LeQuellec

SO & EDB DER MANAGEMENT INTERFACE - INITIATIVE OVERVIEW

Objectives

Develop an interface between EDBs and the SO to enable optimal use of DERs & the future use of hot water load management.

Deliverables

1. A shared understanding of the current various interfaces in use
2. A shared understanding of the DER control methods currently in use
3. A series of use-cases to demonstrate hierarchy of DER/Hot Water Control as it relates to reliability and network protection
4. Develop an interface for use by SO & EDBs for DER Management

Key Steps Required

- Stocktake of existing EDB and SO interfaces (2-way)
- Stocktake of current use of HWC by ENA members
- Describe evolving trends with use cases of HWC – actors, drivers, business cases (cost/revenue), visibility, information exchange, risks, technology (incl. Reliability)
- Hierarchy of HWC/DER use cases i.e. how does EDB protect network if not controlling HWC?
- Stocktake DER control methods in use by EDB today
- Collaborate & develop new interface

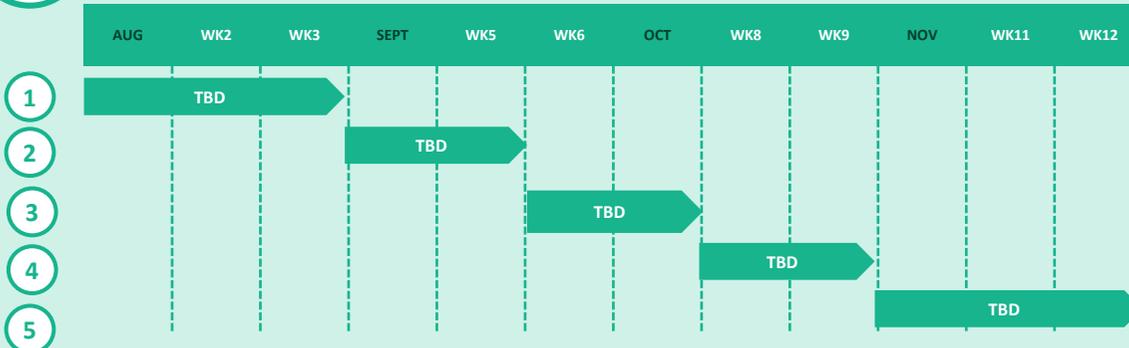


DEPENDENCIES

- Availability of information as part of stocktake exercises



TIMELINE (NOT YET DETERMINED / TBD)



RESOURCES (NOT YET DETERMINED / TBD)

TIME



TBD

PEOPLE



TBD

BUDGET



TBD

Draft EDB & Flexibility Suppliers Information Sharing Initiative – Our Plan on a Page

**DRAFT SCOPING UNDERWAY
– NOT FINALISED**

INITIATIVE TEAM

Matt Smith (Lead), Garry Heyes, Francis Cheng, Jackson Lung

EDB & FLEXIBILITY SUPPLIERS CONSTRAINTS: CONSISTENT INFORMATION SHARING - INITIATIVE OVERVIEW

Objectives

Develop aligned solution for consistent information sharing between EDBs and flexibility providers on areas of network capacity and constraint.

Deliverables

1. Understand the current state of services/information models across NZ EDBs - identifying areas of commonality/differences and opportunities to align
2. Review EDB Standards and policies as it relates to AMP, Load Management Protocol, Network Connection Standards, Congestion Management Policies, other data sharing with flexibility providers
3. Identify and develop a consistent solution for information sharing between EDBs and Flexibility Suppliers for use of DER to help manage network capacity constraints

Key Steps Required

- Carry out market reviews to determine best practices for the following to provide opportunity for deeper gaps analysis in the primary output:
 - Identifying risk of constraints caused by DER
 - Communicating constraints or risks of constraints caused by DER
 - Managing DER constraints
- Collaborate to identify consistent solution options for use across EDBs.

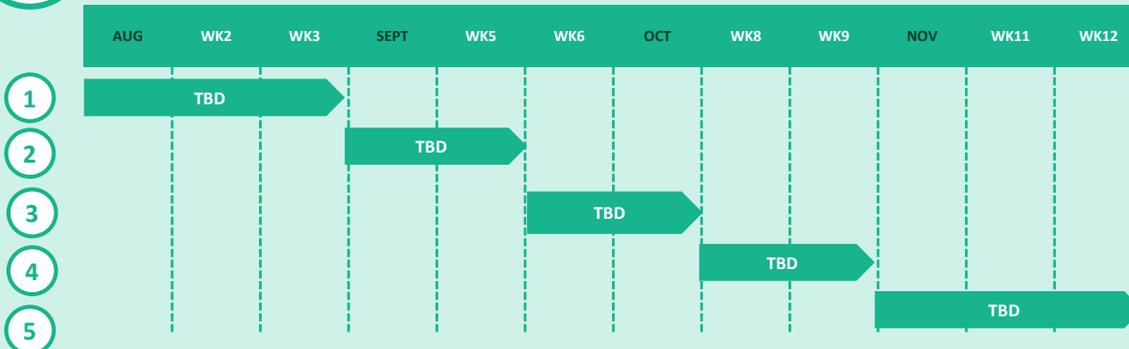


DEPENDENCIES

- Availability of information to enable robust gap analysis of constraints identification and uses of DER



TIMELINE (NOT YET DETERMINED / TBD)



RESOURCES (NOT YET DETERMINED / TBD)

TIME



TBD

PEOPLE



TBD

BUDGET



TBD

Draft EV Charging Management & Optimisation Initiative – Our Plan on a Page

DRAFT SCOPING UNDERWAY
– NOT FINALISED

INITIATIVE TEAM

Dyson Gentle (Lead), Weihao Zhou,
Renato Bitac, Adrian Nadan

EV CHARGING MANAGEMENT & OPTIMISATION - INITIATIVE OVERVIEW

Objectives

Present options to optimise EV charging management and cost optimisation.

Deliverables

1. Present key industry developments to deliver optimised EV charging management
2. Present end-to-end technical requirements of EV charging management and options
3. Present commercial and regulatory frameworks to enable efficient management models/options
4. Identify EV charging value streams that may support or conflict with network capacity management
5. Identify timeframes for developments that best support domestic EV charging management.
6. Present actions EDBs need to provide to support above industry developments and associated milestone timeframes

Key Steps Required

- Research industry best practise solutions for EV charger management
- Identify technical requirements, regulatory changes, and value stream conflicts
- Understand what’s required to determine achievable timelines for changes needed

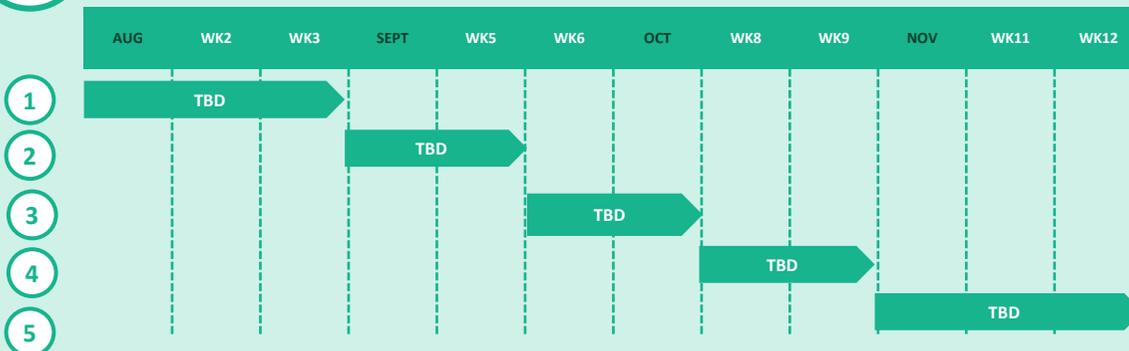


DEPENDENCIES

- Strategic Context workstream input



TIMELINE (NOT YET DETERMINED / TBD)



RESOURCES (NOT YET DETERMINED / TBD)

TIME



TBD

PEOPLE



TBD

BUDGET



TBD

