

Open Networks Network Development Plan webinar: Providing clarity to help achieve Net Zero

Tuesday 28th September 2021



Thank you for joining this Webinar.

This webinar will commence at 3:03pm.

- If you are unable to play the audio through your device, you can **dial in by calling ++44 20 3855 5885 and using access code 881737629#**
- All microphones have been set to mute to avoid background noise.
- Please ask questions or make comments **via the chat function** throughout the meeting.
- Please note that the webinar will be recorded and made publicly available on ENA's Youtube channel. Please do not turn your video on if you don't want your likeness to be recorded and shared.
- The slides from the webinar will be made publicly available on ENA's website.
- If you would like to receive information about the Open Networks Project or have any feedback you would like to submit, please get in touch with us at opennetworks@energynetworks.org.

Agenda

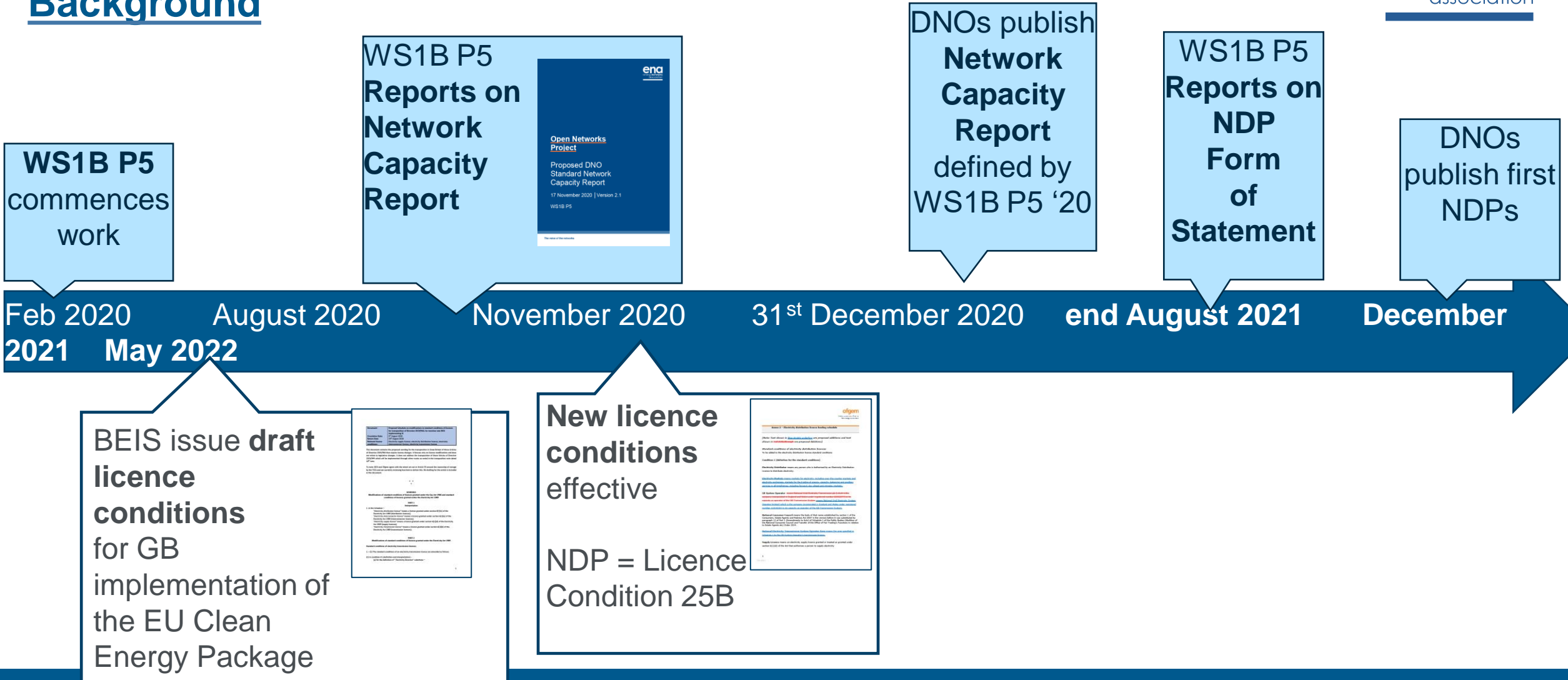
	Topic	Duration	Presenter	Time
1	Welcome & Introduction	2 mins	Emily Jones (ENA)	3:03pm-3:05pm
2	Introductions & Network Development Plan Presentation	30 mins	Garreth Freeman (ENWL)	3:05pm-3:35pm
4	Q & A Session	20 mins	Garreth Freeman (ENWL)	3:35pm-3:55pm
5	Wrap Up	5 mins	Garreth Freeman (ENWL)	3:55pm-4:00pm

Introduction to Network Development Planning

Garreth Freeman (ENWL)



Background



Network Development Plan – Licence Condition 25B

Form of Statement

Introduction

Part A: Scope and contents of network development plan

Part B: Using data, methodology, and processes for the network development plan

Part C: Information exclusions

Part E: Consultation

Part F: Submission to the Authority

Part G: Changes to the form of network development plan

Part H: Publication of the network development plan

Process

The NDP FoS comprises 3 parts

Parts of the network
most suited to new
connections

Parts of the network
where reinforcement
required

Parts of the network
where flex required

Whole system
information
exchange

1) Network headroom reporting

New infrastructure

Flex services

2) Network development reporting

Methodology for
preparing the network
development plan

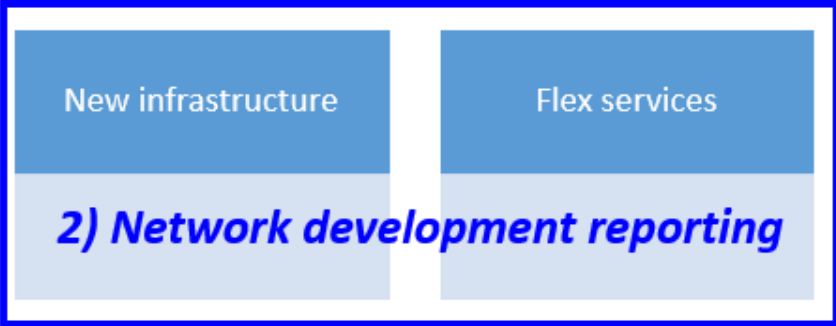
Assumptions

3) Methodology

NDP FoS – Network Headroom Reporting

Scope of Network Headroom Reporting	Deliverable
Date range	Every year to be covered individually between 1-10 years
	After the 10th year, this requirement moves to every five years up to 2050 aligning with DFES timescales;
Scenarios	Four DFES scenarios, plus a 'best view' scenario where different;
Network capacities and assessment methodology	Demand and generation capacities in terms of spare margin in MW per year per scenario
	This will reflect approved network developments in delivery including asset-based enhancements
	Information to be considerate of thermal loading and fault level constraints as a minimum
Coverage	Capacity information to be provided for all BSP and primary substations down to and including the primary secondary voltage, typically HV (11kV or 6.6kV)
Format and publication	The format of the network capacity reporting part of the NDP will be tabular in nature with the respective DNOs to add interactivity to the workbook if required.
	A short guidance document shall be included to explain the scope of the data workbook, define each data element and give user instructions.
Annual update	
Information sources	Network parameters underlying the capacity reports shall be based on the latest LTDS
	Existing and future network demand and generation shall be based on the latest DFES

Network Development Reporting



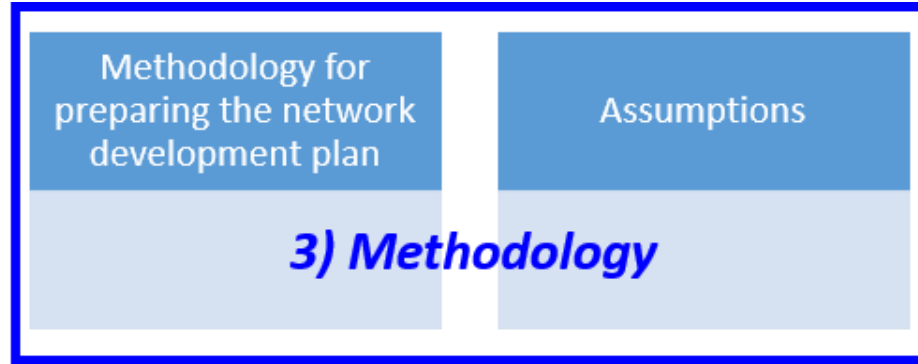
Scope

List of high level plans for network interventions and flexible service requirements:

- For years 1 – 10
- Location of the intervention, covering whole network down to primary substation HV bars
- Development requirements for flexibility services and new infrastructure (table below)
- Justification for the need for network developments
- Where it resides on the delivery lifecycle (signposting, approved plan, in delivery etc.)

Flexibility services	New infrastructure
<ul style="list-style-type: none"> ○ Magnitude; ○ Year of intervention, likely duration i.e. number of years in the future; ○ Nature of requirement / flexibility product; 	<ul style="list-style-type: none"> ○ Timing and high level scope of intervention; construction duration (start & finish) ○ Details of connectivity; link to the LTDS? ○ Asset quantities approx. circuit lengths, no. txs etc ○ Equipment ratings.

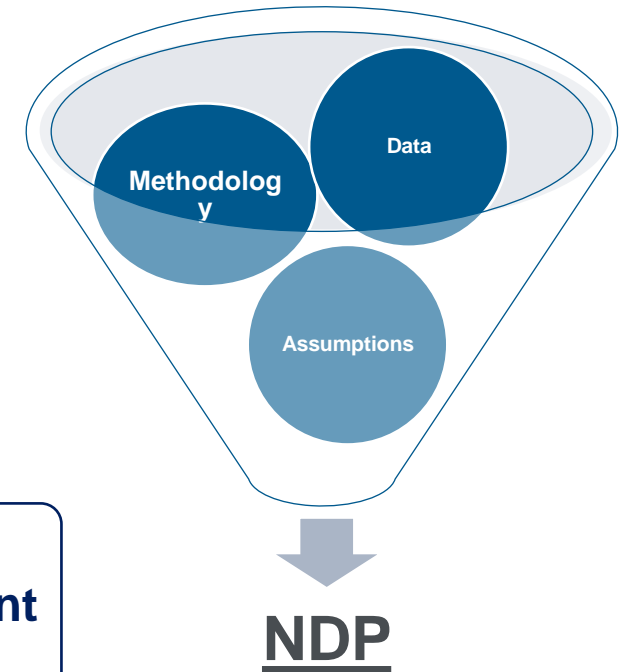
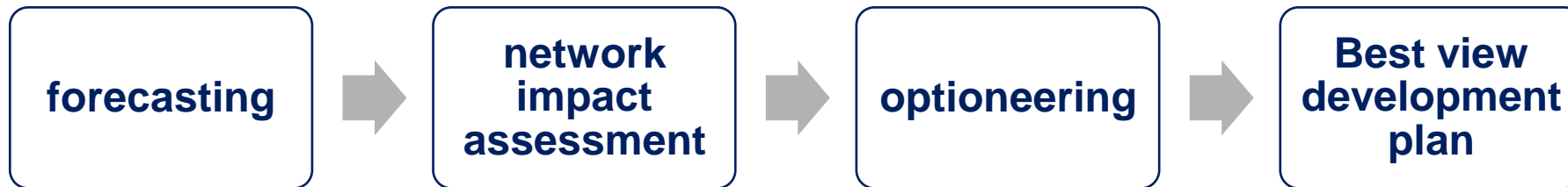
Methodology Reporting



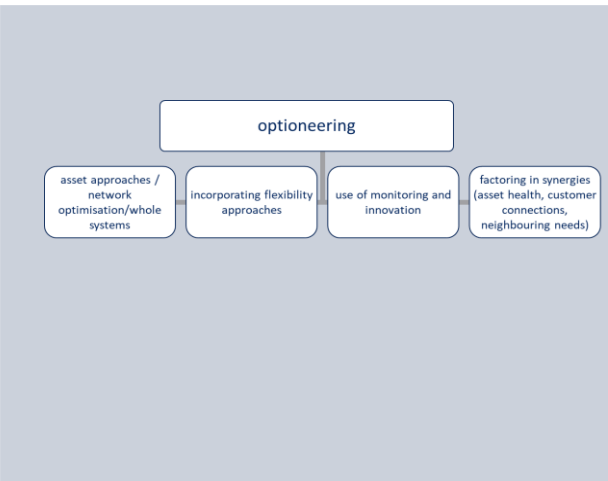
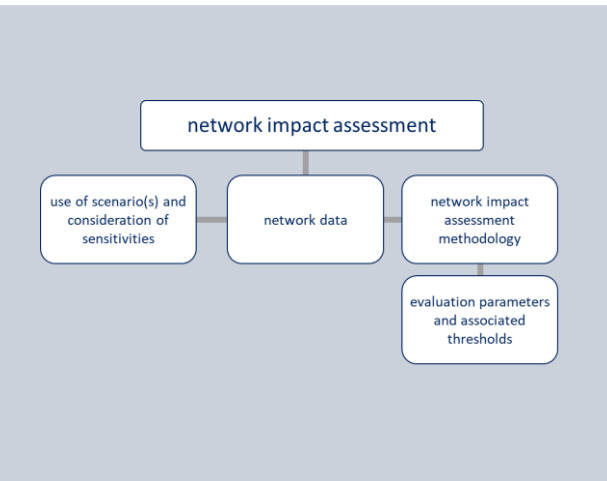
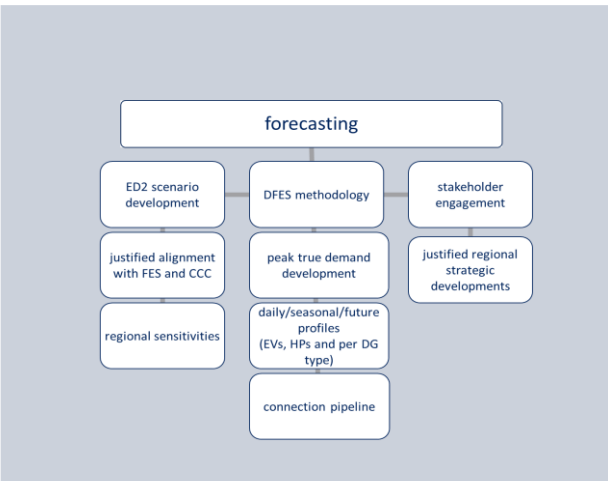
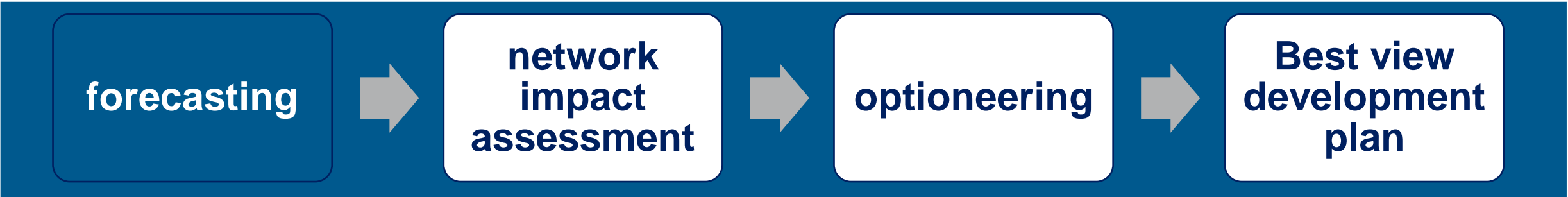
Scope

The license agreement states that we have to be transparent

- Methodology document to cover the end to end process
- Sufficient detail to provide stakeholders with sufficient detail to understand sensitivities and extrapolate NDP results



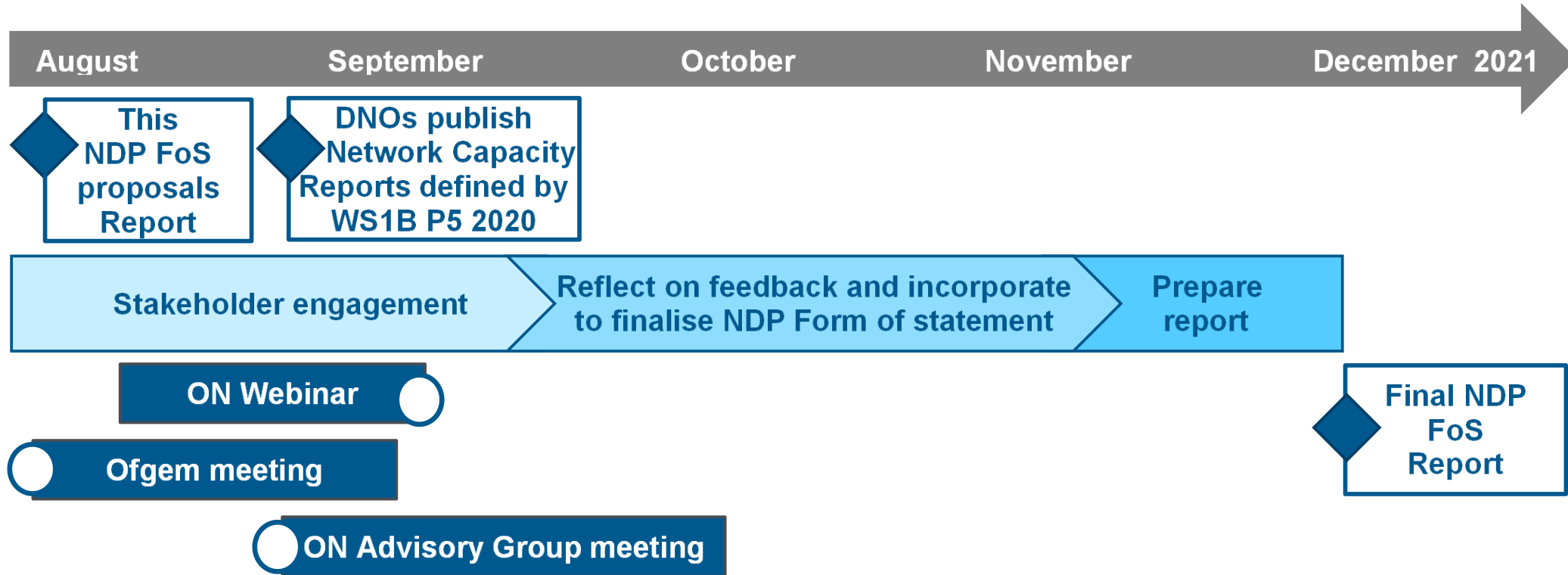
Methodology Reporting



NDP FoS – Other sections in the report

- **Governance**
 - Governance of the NDP FoS is required to ensure consistency in future DNO reports
 - The NDP FoS should be enhanced and modified going forward to reflect stakeholder feedback and adjusted to meet their new requirements.
 - Governance through the ENA is a preferable allowing for agile updates whilst involving all DNOs through a working group.
 - Consideration should be given to defining the NDP FoS in an ER
 - Including it under the governance of the Distribution Code Review Panel by listing it in an Annex or instead making it an ENA guidance document which continues to be owned and kept under reviewed as an Open Networks project product
- **Feedforward**
 - Learnings relevant to the LTDS review
 - Distribution network capacity in relation to existing TO network capacity reports

NDP FoS – Next Steps



Live demonstration of the NHR

Q & A Session

WS1B P5 – Questions – NHR

Q1: Is there value in of reporting network capacity to 2050?

Q2: Are there advantages in reporting network capacity for multiple scenarios?

Q3: Is it useful to update the NHR annually in accordance with the DFES?

Q4: Is there enough clarity and awareness of how the various capacity reporting work together?

Q5: What are your views on an excel format and the future implementation in CIM?

WS1B P5 – Questions – NDP

Q1: Does the proposed reporting of larger scale interventions (primary and above) meet your requirements for long term visibility of network and development planning?

Q2: Is it clear how this part of the NDP fits in with embedded capacity register/LTDS/flexibility service tenders etc?

Q3: Does it provide adequate instruction/detail of proposed interventions? (SLIDE 6)

WS1B P5 – Questions – Methodology

Q1: What do you want out of the proposed Methodology part of the NDP?

Q2: Can variances in DNO approaches due to software and data availability be accommodated if well explained in the methodology?

WS1B P5 – Questions – General

Q1: Do you see any further opportunities for the detailed scope of the NDP?

Thank You!

Please contact

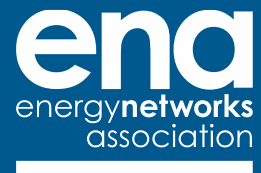
Garreth Garreth.Freeman@ENWL.co.uk

Or

Gill Gillian.Williamson@ENWL.co.uk

for more information or to share further thoughts

Thank you for joining this webinar. To find out more or send us feedback, email us at opennetworks@energynetworks.org.



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The voice of the networks