## Welcome to the ESO RIIO-2 webinar

- Thank you for joining us! You will be joined in listen only mode.
- Please do not unmute yourself or turn your camera on
- You can ask questions via the chat function
- The WebEx details are:
- 0800-376-8336 or 020-7108-6317
- Meeting number (access code): 598 101 370

Please note we will be recording this webinar

For more information on the ESO's approach to RIIO-2 please visit http://yourenergyfuture.nationalgrid.com



### ESO RIIO-2 Webinar

1<sup>st</sup> November



Angelita Bradney Head of ESO RIIO-2 Angelita.Bradney@nationalgrid.com



### Agenda

- 1 Introduction
- 2 Whole Electricity System

- 3 Network Planning
- 4 Code Administration
- 5 Next Steps

## How you can get involved today



Throughout the presentation please feel free to provide feedback or ask questions via the chat function and we will pause at points to respond

We will be using a poll at certain stages during the presentation to collect your feedback





We hope to have a question and answer session at the end of the webinar. Please press the 'hand' icon next to your name and we will unmute your line.

## **Key updates**

28<sup>th</sup> September Long-term vision for the ESO Stakeholder workshop <u>http://yourenergyfuture.nationalgrid.com/media/1560/eso-2030-ambition-workshop.pdf</u>

4<sup>th</sup> October Bi-Monthly Bulletin

https://mailchi.mp/1adea0a9a1a8/eso-riio-2-bulletin-register-for-upcoming-webinars?e=d636dd5b76

**15<sup>th</sup> October** Published 'Exploring how the ESO could be funded in RIIO-2' thought-piece <u>http://yourenergyfuture.nationalgrid.com/media/1587/exploring-how-the-eso-could-be-funded-in-riio-2-v1.pdf</u>

#### 18th and 25th October

Held round table discussion at the FES workshops on using scenarios and key trigger points for uncertainties

http://fes.nationalgrid.com/

### Ongoing

Working with Ofgem and the ENA on the use of scenarios in RIIO-2

## **Our SO Mission focuses us on delivering value**

# We keep the lights on and the gas flowing round the clock for GB energy consumers; we play an essential role in enabling the transition to a more sustainable energy future.

Therefore we believe that:

- We deliver value for consumers first and foremost, while also ensuring that we build and maintain trusted partnerships with our customers and stakeholders
- We influence the energy debate positively with our independent perspective
- Through using markets, data and networks in new ways across gas and electricity, we help move GB towards a more reliable, affordable and sustainable energy world
- An incentivised for-profit model ensures we deliver the best long-term outcomes for consumers, society and the GB economy

### Facilitating Whole Electricity System Outcomes



Andy Wainwright Business Lead – Whole Electrcity System Andy.wainwright@nationalgrie.com

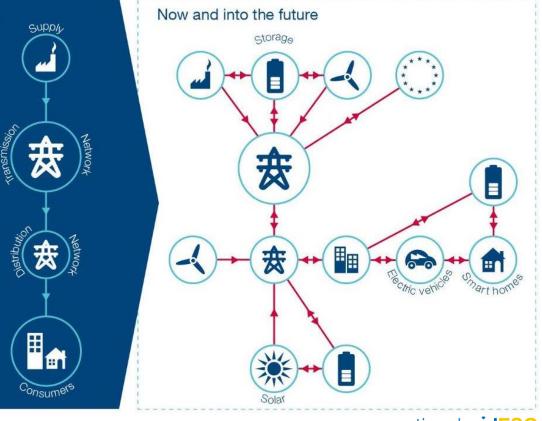


## The energy landscape is changing

Past

The energy landscape is changing to meet the challenges of; Decarbonisation Decentralisation Digitisation

- 30 GW of distributed generation, excluding small domestic, of which almost 50 % renewables
- 9GW of distributed connection applications processed in 2016
- Over 10 GW distributed solar regularly in the South for much of the summer 18



## How we're responding to these challenges

We believe that facilitating whole electricity system outcomes will ensure that industry arrangements develop in a way that maximises consumer value

### Providing thought leadership

 'Facilitating Whole Electricity System Outcomes'

#### Working with others

 Playing an active role in the Open Networks project

#### Developing new ways of working

 Using our collaborative initiatives to learn how the ESO needs to change



Whole electricity system



#### **Power Potential**

This initiative aims to create a new reactive power market for distributed energy resources (DER) and generate additional capacity on the network.



## Facilitating whole electricity system outcomes

Facilitating whole electricity system outcomes will ensure that industry arrangements develop in a way that maximises consumer value. This can be achieved through a focus on six key areas.



#### Our ambition in 2030;

- Planning, development, investment and operation of the GB networks will be optimised on a whole electricity system basis irrespective of ownership boundaries.
- Solutions to system operator challenges will be open to a full range of participants, facilitating both market and asset solutions.
- Best overall value for consumers will be achieved, irrespective of the ESO or DSO performing the analysis.
- All investment decisions of value are assessed through a consistent cost benefit assessment across the network. nationalgridESO

## How we've used your feedback

Through your responses to the Future Worlds consultation and engagement with you at industry events we've identified six priority topics for the ESO in 'Facilitating Whole System **Outcomes'** 

Question: Are these the right areas for the ESO to focus on? What should we prioritise?

### 1. Market information

2. Framework accessibility and alignment

3. Facilitating routes to market

4. Clarifying responsibilities across the T-D interface

5. System event preparedness & restoration

6. Balancing regional requirements with national consistency

### Poll

Are these the right areas for the ESO to focus on? If not please use the chat function to let us know what we should focus on:

Yes Yes, but you are missing something No

Not sure

### Which areas should we prioritise (please pick two from the list):

Market information Frameworks Routes to market T-D interfaces System preparedness Regional verses national All of the above

Answer	Poll Result
Yes	30%
Yes, but you are missing something	13%
No	0%
Not sure	13%

Answer	Poll Result
Market Information	22%
Frameworks	4%
Routes to market	22%
T-D interfaces	30%
System Preparedness	4%
Regional verses national	9%
All of the above	4%

## Whole Electricity System next steps

We are intending to follow up our July publication with a broader paper. This document will;

Build on the six key areas to provide our thoughts on the Whole Electricity System priority topics

Describe how our 'on the ground' initiatives are informing these topics

Detail our next steps to facilitate whole system outcomes

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Whole electricity system

This paper will be the basis for discussion with you through a range of forums.

We are interested in your views before and after its publication. Please contact; <u>Andy.Wainwright@nationalgrid.com</u>

To find out more about Whole Electricity System go to;

https://www.nationalgrideso.com/insights/w hole-electricity-system

### Driving greater value for consumers through network planning



Alice Etheridge Network Development Strategy Manager alice.etheridge@nationalgrid.com



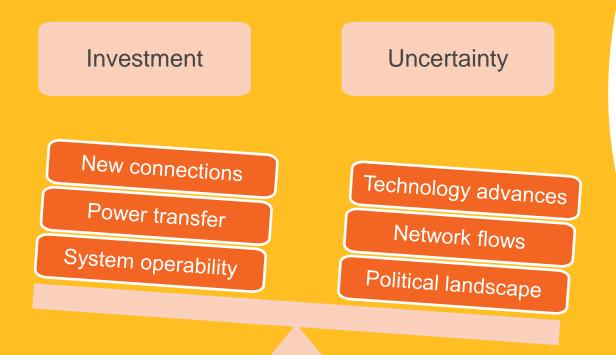
## Background

Network Planning is an important element of two of the key topics for RIIO-2:

- facilitating whole electricity system outcomes
- facilitating timely, efficient and competitive network investment

We welcome your views on how we develop our role in this area in RIIO-2

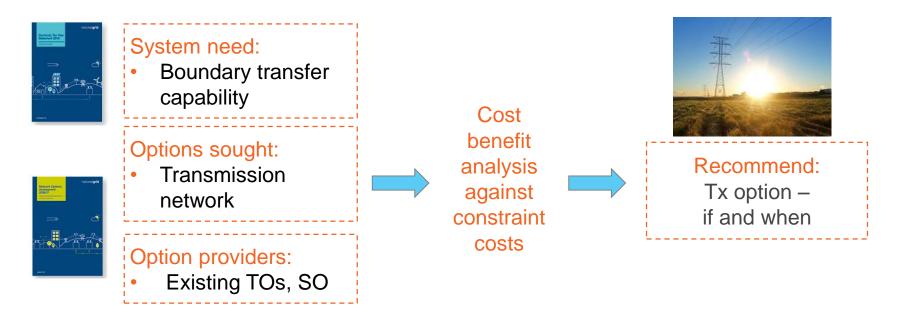




## Why do we do network planning?

- Ensures a safe, reliable, efficient, operable future network
- Manages uncertainty over future system needs
- Balances investment against asset stranding

## How do we currently plan the network?



Planning the network up to 10 years ahead

## Why change this?

- We think we can drive greater value to consumers through the way we plan the transmission network.
- We are making changes to our network planning tools, one of which is to compare network and non-network solutions to transmission network needs, across transmission and distribution

## What will network planning look like at the start of RIIO-2?



### System need:

- Boundary transfer capability
- Voltage management beyond boundaries
- Across the year to a greater extent

### Options sought:

- TOs, DN network & other
  - Market and commercial solutions

### Option providers:

- TOs, SO, DNOs, market
- participants

Cost benefit analysis against each option & constraint costs



Recommend: which option(s) and when

## Broader range of system needs, of solutions and solution providers

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Network Development Roadmap <a href="https://www.nationalgrideso.com/insights/network-options-assessment-noa">https://www.nationalgrideso.com/insights/network-options-assessment-noa</a>

## NOA and RIIO-2

Expand NOA to a wider set of system needs in RIIO-2? For example:

- Connection wider works
- End of life asset
  replacement
- Lower voltage levels



## **Poll Question**

## Should the NOA be expanded to a wider set of network needs in RIIO-2?

Yes – connection wider works Yes – end of life asset replacement Yes – lower voltage levels Yes – all of the above Yes – but it's not on your list No – none of the above

Answer	Poll Result			
Yes – connection wider works	13%			
Yes - end of life asset replacement	13%			
Yes – lower voltage levels	9%			
Yes – all of the above	13%			
Yes - but nots what on your list	0%			
No – None of the above	13%			

If you think there is anything else please feel free to provide this in the chat panel.





## Security and Quality of Supply Standard (SQSS)

- Requirements for the TOs and SO on planning and operating the GB transmission system
- System changed extensively since introduced – significantly more renewable and embedded generation
- Time for a fundamental review?



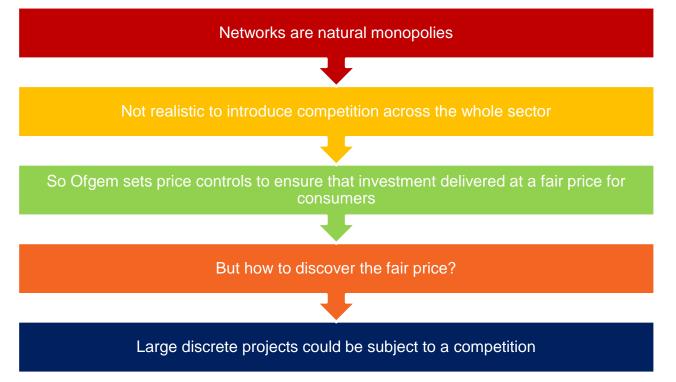
Would there be merit in us carrying out a fundamental review of the SQSS in RIIO-2 in conjunction with the TOs?

Yes No Unsure

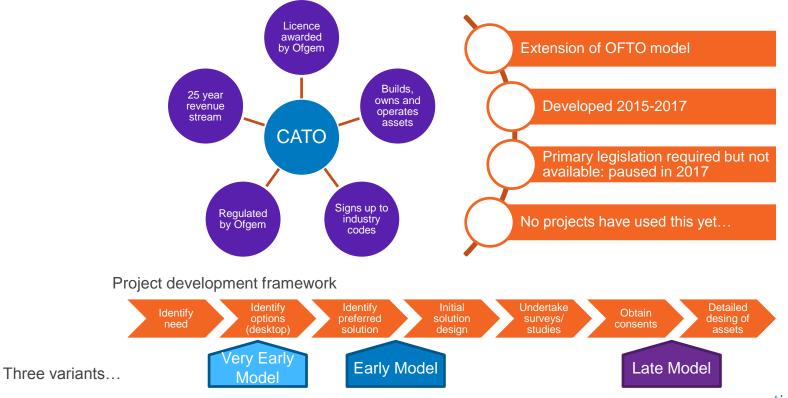
Answer	Poll Result
Yes	30%
No	0%
Unsure	9%



### Extending competition in onshore transmission Competition vs Regulation



## The Competitively Appointed Transmission Owner (CATO) model



## Questions to explore

- What role should the ESO play in facilitating competition in advance of legislation to enable CATOs?
- What role should the ESO play in competition once legislation is introduced?
- What are your views on the different competition models?



Do you agree with the questions we are considering?

Yes – they're the right ones

In part – they're good but you should also be thinking about (*Provide further comments in the chat function*)

No – you shouldn't be doing any work on competition until you have the legislative and regulatory mandate to Poll Result

Answer	Poll Result
Yes they're the right ones	36%
In part – they're good but you should be thinking about	5%
No	5%

## Code Administration

理論

John Twomey EU and UK Commercial Strategy Manager john.twomey@nationalgrid.com



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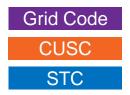
## **Recap and the Code Manager role**

In the August webinar we talked about:

- the role that we undertake in code administration for our three industry codes
- our customer journey work and where we need to improve
- opportunity to increase consumer value by transitioning to a Code Manager role
- some potential characteristics of a Code Manager

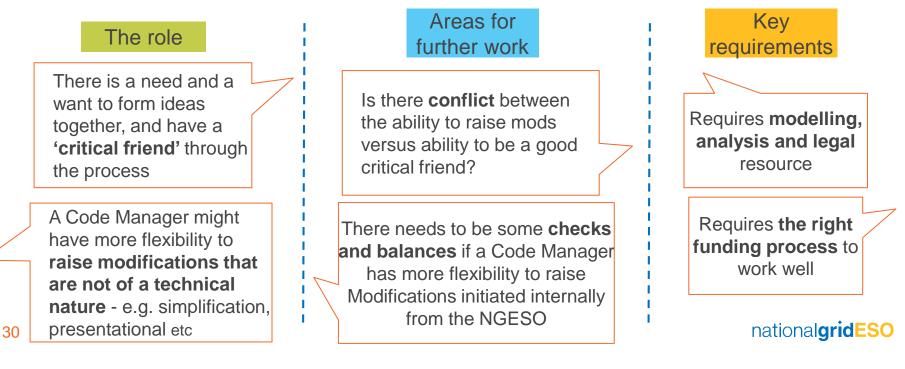
### Our CACoP 2018 survey results show improvement but we know we have more to do

Overall Satisfaction	BSC	CUSC	DCODE	DCUSA	GRID CODE	IGT UNC	MRA	SEC	SPAA	STC	UNC
2016/17	82%	47%	77%	83%	59%	62%	70%	71%	73%	45%	77%
2017/18	86%	65%	74%	58%	66%	62%	76%	61%	78%	58%	69%
		18%			7%					13%	
29										national	gridESO



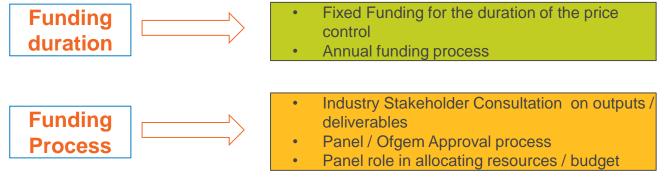
## **Code Manager - feedback**

- We have heard that the existing governance model is not fit for purpose
- Wider direction of travel towards Code Managers and our customer journey work takes us on the same path



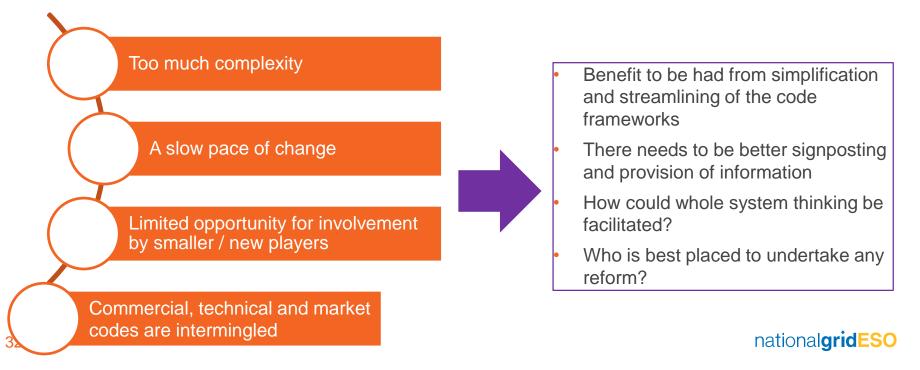
## Funding our code administration activity

- Looking at an appropriate funding model for ESO and a possible layered model
- Code Administration could be its own layer stakeholders have generally supported this
  - Allows for a more bespoke and flexible funding arrangement that would complement the role of a Code Manager
  - Allows for better benchmarking between different code administrators and introduces competitive pressures



## **Possible code reform**

Through our engagement we are also hearing that the current codes structure may not be fit for purpose. For example, stakeholders have said that there is:





### Do you think that code reform is required and to what extent?

No, the current code structure is fine

Yes, I would support some targeted incremental change

Yes, I would support a fundamental review of the current code structure Not sure

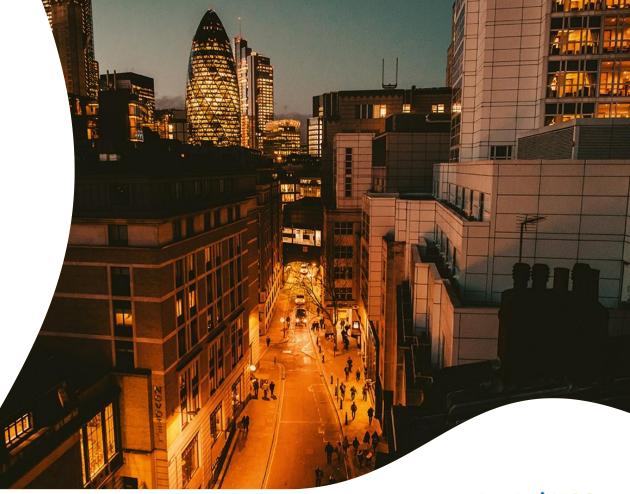
Answer	Poll Result
No	0%
Yes, I would support targeted incremental change	14%
Yes, I wold support a fundamental review	24%
Not sure	0%



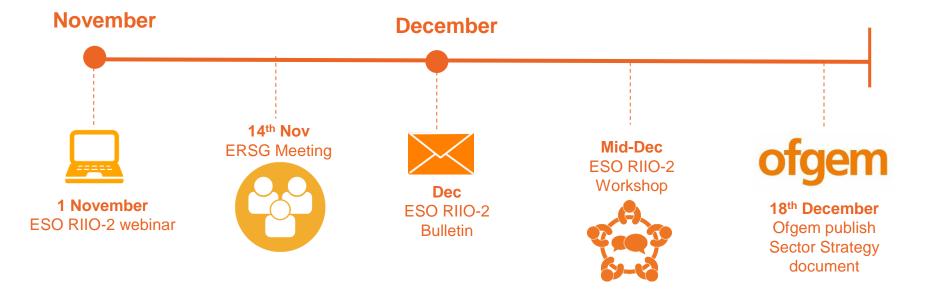
## **Next Steps**



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## **Upcoming Activity**



## How to get involved



## http://yourenergyfuture.nationalgrid.com



## Box.ESO.RIIO2@nationalgrid.com

