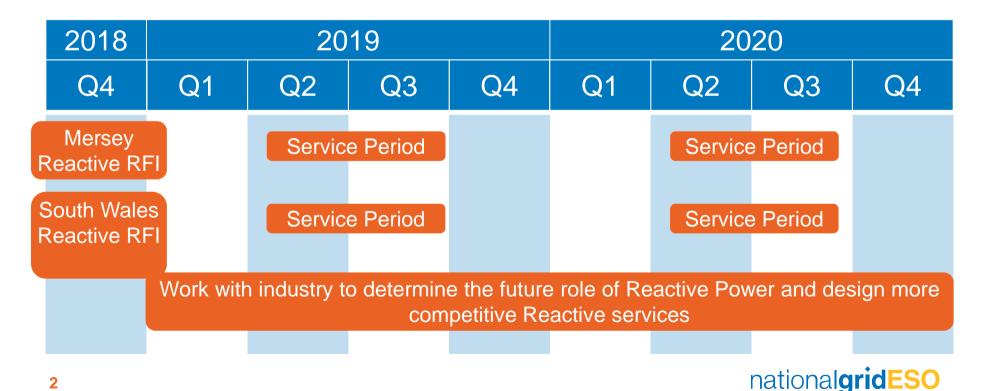


"Shorts"



#### **Reactive Power Regional Requirements (Short Term)-Request for Information (RFI)**

- We have published a RFI for provision of reactive power in South Wales and Mersey regions Summer 2019 and Summer 2020
  - Interested providers to submit outline of their capability by 5<sup>th</sup> November 18
- Initial step in our plan to develop improved transparent, contestable approach to reactive power procurement



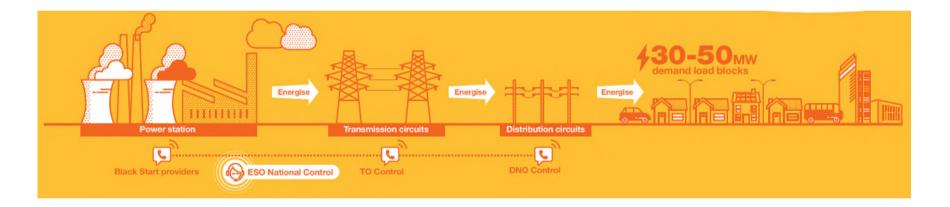
# Pathfinder project (NOA) – Requests for Information

- We set out our planned enhancements to network planning in our Network Development Roadmap
- We are including commercial solutions as part of the next step through a number of pathfinding projects



## **Restoration – Black Start Procurement & Operation**

- May 2018 ESO Restoration Roadmap highlighted the need for improvement in procurement approaches
  - Plan to develop a competitive tendered service for Black Start Services, initially in one area – rolled out across GB
  - Competitive tender process to be consulted on by the end of 2018



 EU Emergency & Restoration Code System Restoration and System Defence Plans outline the Black Start restoration process (under consultation until 26 October)



## **RIIO-2** – The first price control for a legally separate ESO

- Ofgem has confirmed that the ESO will have its own price control from 2021
- We will be expected to submit our well justified business plan in Q4 2019
- We will build our business plan with our stakeholders using a three phased approach – Listen, Co-create and Propose

| 2017         |   |    |    |  |    |    | 2018                  |   |    |   | 2019 |    |   |    |    | 2020   |    |    |    | 2021 |  |    |  |
|--------------|---|----|----|--|----|----|-----------------------|---|----|---|------|----|---|----|----|--|----|----|----|------|--|----|--|
| Q1           |   | Q2 | Q3 |  | Q4 | Q1 | Q2                    | Q3  | Q4 | Q | I    | Q2 | Q3  | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2   | Q3   | Q4 |  |
| Esta<br>prio | <b>Listen</b><br>Establishing stakeholder<br>priorities to shape our future<br>engagement plans |    |    |  |    |    |                       | <b>Co-create</b><br>Building elements of our<br>plans with stakeholders<br>- getting into detail<br>- workshops |    |   |      |    | <b>Propose</b><br>Sharing our plans<br>with stakeholders<br>to make sure we<br>check we're meeting<br>their needs |    |    | Ofgem scrutiny and<br>licence development<br>Detailed scrutiny of our business<br>plans and stakeholder group reports<br>by the regulator, with open hearings<br>where appropriate |    |    |    |      | Start of RIIO-2<br>New price control<br>1 April 2021 |    |  |
|              |   |    |    |  |    |    | S                     |   |    |   |      |    |   |    |    |  |    |    |    |      |  |    |  |
|              |   |    |    |  |    |    | Ofgem challenge group |   |    |   |      |    |   |    |    |  |    |    |    |      |  |    |  |

Ofgem scrutiny stage (not definite)

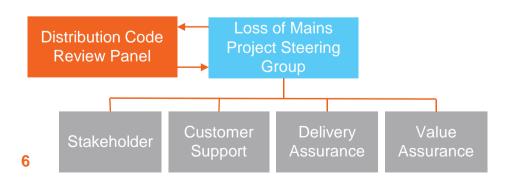
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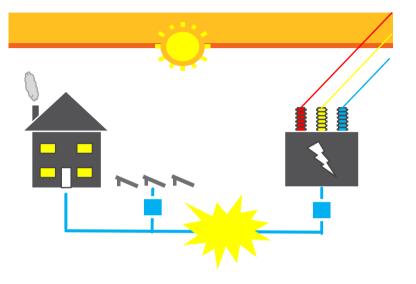
Email: <u>Box.ESO.RIIO2@nationalgrid.com</u> Visit our RIIO-2 website: <u>yourenergyfuture.nationalgrid.com</u>



### **Loss of Mains Protection changes**

- National programme: ~50,000 distributed generators impacted
- Protection change: Remove vector shift and set RoCoF as 1Hz/s with 500ms delay
- 2017/18 operational spend: £59.2 million
- Programme cost estimate: ~£30million
- Forecast savings: ~£300million by 2024 .
- **Distribution code mod ref:** DC0079
- **Proposed cross industry governance:**





#### **Timeline:**

- AUG 2018: Distribution code consultation complete
- SEP-NOV 2018: Detailed implementation planning
- DEC 2018: Report to Ofgem
- JAN-MAR 2019: Mobilisation
- APR 2019-OCT 2021: Implementation

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