

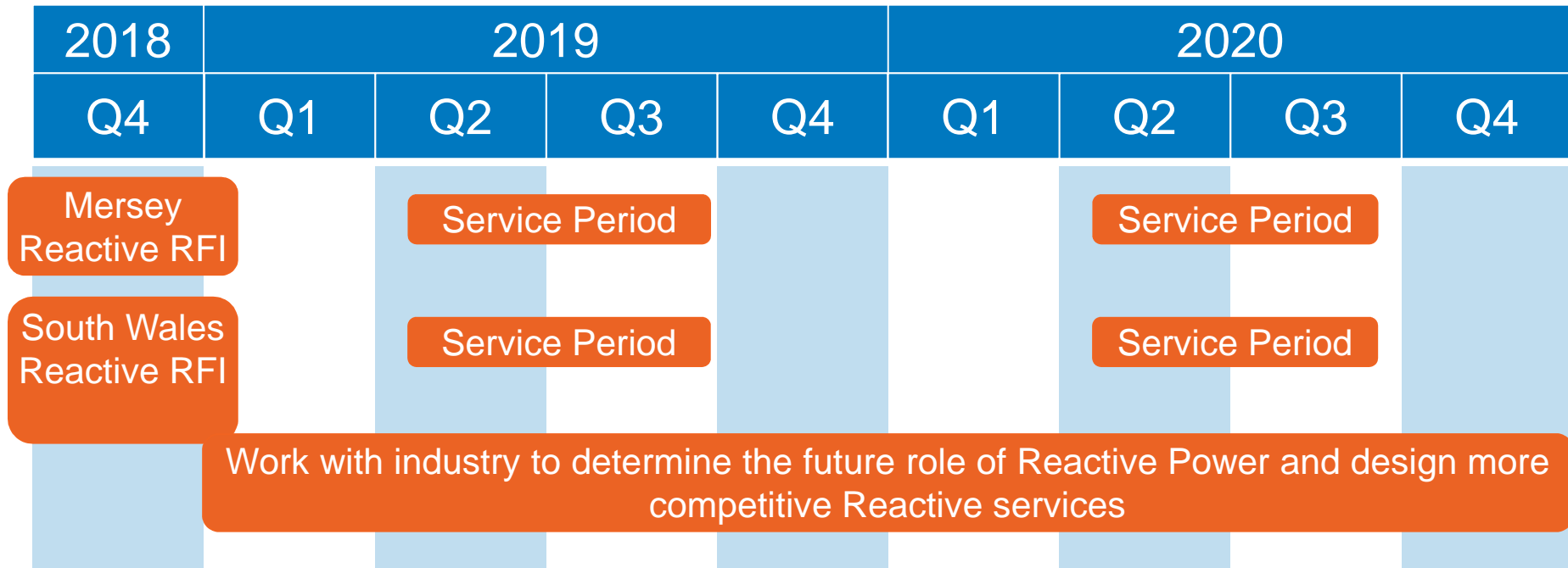
Ops forum

“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



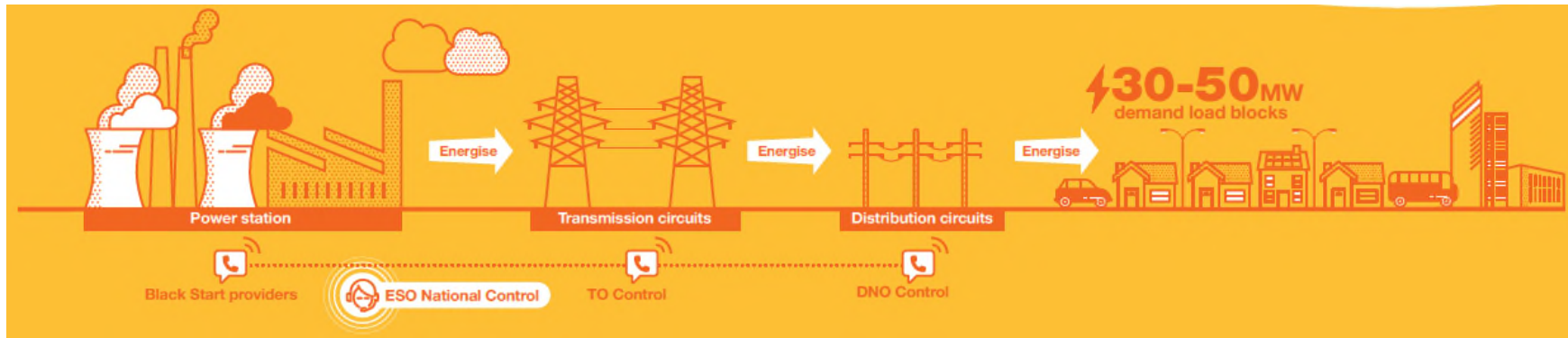
## Pathfinder project (NOA) – Requests for Information

- 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

2018	2019				2020
Q4	Q1	Q2	Q3	Q4	Q1
<p>◆ ETYS 2018 publication</p> <p>Mersey and South Wales Reactive Long Term RFI</p>	<p>◆ NOA 2018/9 publication</p> <p>Constraint management RFI</p> <p>Stability pathfinder RFI</p>			<p>◆ ETYS 2019 publication</p>	<p>◆ NOA 2019/20 publication</p>

# 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

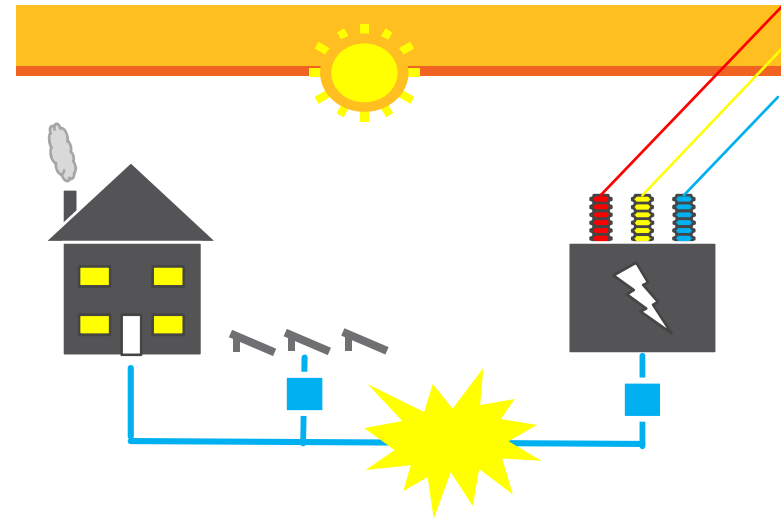
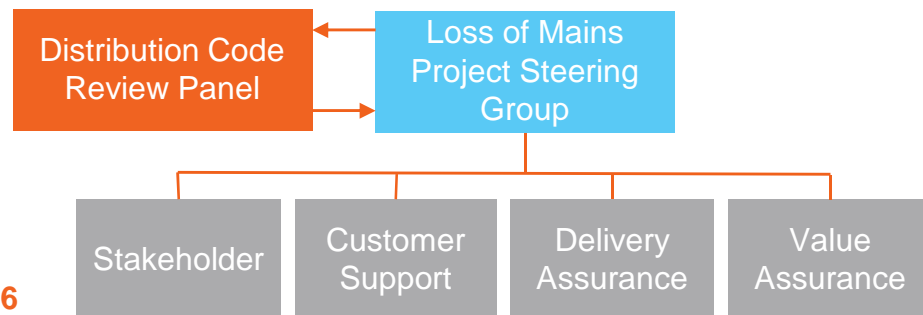


- EU Emergency & Restoration Code **System Restoration** and **System Defence Plans** outline the Black Start restoration process (under consultation until 26 October)



# 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