

# Form of the 2019 Electricity Ten Year Statement Consultation

April 2019



# Overview

**We are revising the form of our 2019 Electricity Ten Year Statement (ETYS) and would like to know your views on our proposal.**

This consultation on the proposed form of the 2019 ETYS provides you with our latest view of how the document should evolve to better meet your needs and serve its purpose. As we would appreciate your feedback, please take the opportunity to comment on this consultation.

Responses to this consultation should be sent to [box.transmission.etyes@nationalgrideso.com](mailto:box.transmission.etyes@nationalgrideso.com) or submitted through <https://www.surveymonkey.co.uk/r/ETYS2019Form> by 5pm on Friday 17 May 2019. We will combine the feedback to this consultation with what we have received to date via various feedback channels when we consider the final form of 2019 ETYS.

# Revised form of the 2019 ETYS

**Question 1:** What are your views on the purpose and proposed form of the ETYS? Do they meet your needs and do you think they cover all the areas that should be in the ETYS?

**Question 2:** Are there any topics relating to the national electricity transmission system (NETS) capability requirements that you would like us to further explore?

**Question 3:** In ETYS 2018 we expanded Chapter 3 to include case studies on Probabilistic thermal analysis and Regional voltage analysis. Did these case studies provide you with useful information? What are your views on how we can further develop these sections?

**Question 4:** Do you think that our new boundary transfer graphs are clear and easy to understand? How can we improve how we communicate future capability requirements?

**Question 5:** What are your views on the proposed ETYS appendices? Do they meet your needs and do you think they cover all the areas that should be in the ETYS?

We published the 2018 [Electricity Ten Year Statement \(ETYS\)](#), the latest edition, on 30 Nov 2018. We have been publishing the ETYS since 2012 in our role as System Operator (SO). The ETYS brings together information from the Seven Year Statement (SYS), the Offshore Development Information Statement (ODIS) and from 2013-2014 the Network Development Policy (NDP) analysis. From 2015, the recommendations from the Network Options Assessment (NOA) replaced the NDP results.

Over the last few years, and in response to your feedback, we have expanded our suite of publications to now include the System Operability Framework (SOF) and the Network Options Assessment (NOA). To improve the information we give you, and to help navigation through our documents, we want to have clear focus of discussion in each document. The SOF presents the future operability challenges and strategy, the ETYS presents the current NETS capability and its future requirements, and the NOA presents the network development options available together with our preferred options to meet reinforcement requirements of the NETS.

In April this year, National Grid Electricity System Operator (ESO) announced our ambition to be able to fully operate Great Britain's electricity system with [zero carbon by 2025](#). It is our ambition to promote competition by facilitating access to new products and services from both new and existing participants. This will help reduce the overall cost of operating the system, driving down costs for consumers.

This is aligned with our [Network Development Roadmap](#) published in July 2018, where we made a commitment to focus on expanding the ETYS/NOA process to evaluate a wider range of options over the next two years. In our Electricity System Operator [ESO 2019-21 Forward Plan](#) published March 2019, we further set out our ambition for the planning, development, investment and operation of Great Britain's networks to be optimised on a whole system basis (Roles 3 & 4 Facilitating whole system outcomes and supporting competition in networks). To support this, we plan to evolve how we communicate system needs within ETYS to allow a wider audience to better understand needs and propose solutions to meet them.

## **The Purpose of the ETYS is to present the current capability and future power transmission requirements.**

With this focus of the ETYS in mind, we are proposing the structure of the 2019 ETYS as follows:

### **Introduction**

This section provides an overview of the background to the document, defines the purpose of the ETYS, and how the ETYS fits into the suite of Future of Energy documents. This section also discusses how the ETYS differs from the European Network of Transmission System Operators for Electricity (ENTSO-E) Ten Year Network Development Plan (TYNDP).

### **Input for the analysis**

This section describes the information and data we use in our analysis. We build our analysis on the UK Future Energy Scenarios (FES) data. Using this data and the NETS Security and Quality of Supply Standard (SQSS) criteria, we produce credible generation and demand backgrounds against which to assess the capability of the NETS.

### **The Electricity transmission network capability and future requirements**

Based on the FES and NETS SQSS, this section describes the current winter peak capability of the NETS, and what we think the projected future requirements on the system will be for the next decade and beyond. The system requirements from this chapter will be used by the NOA process to develop and recommend network development options.

We also recognise that the most challenging system needs might no longer be just at winter peak, but that other periods such as at low demand in the summer may also give rise to demanding network conditions. We will continue to develop our new tools like probabilistic analysis and regional planning to identify year-round thermal and voltage requirements. We published a case study in March 2019 to show how we're developing our probabilistic tool and analysis to address year-round thermal transmission requirements<sup>1</sup>. In this year's ETYS, we intend to expand our probabilistic thermal analysis as well as provide updates on our regional voltage analysis work.

To achieve our ESO ambitions to facilitate more competition, we will evolve how we communicate and present system needs in ETYS to enable a better understanding of these needs and increase wider participation in the ETYS/NOA process.

### **The Way Forward**

This section provides an overview of what our annual stakeholder engagement and activity program will be, after publishing the 2019 ETYS. It will also provide information of the time-line to publish the 2020 NOA.

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<sup>1</sup> Our probabilistic case study is available here: <https://www.nationalgrideso.com/document/140781/download>

## Appendices

We use the criteria below to decide what information we should provide as appendices of the ETYS:

- we can share the information in our role as System Operator,
- the information is not already available from other System Operator or network owners/operators' publications, and
- information that you have told us that is useful and valuable to you.

With the above criteria in mind, we will continue to include the following appendices in the 2019 ETYS:

- System schematics and geographic diagrams
- System technical data
- Fault level data
- We will also include further information on inputs and methodologies.



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