



Network Access Planning

Key performance indicators

July 2023

nationalgrid

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Introduction

The GB Network Access Policy is designed to facilitate collaboration between National Grid Electricity System Operator (NGESO) and the Transmission Owners in Great Britain to deliver value for consumers in relation to the planning, management and operation of the electricity transmission systems in England, Wales and Scotland.

As part of these policy commitments and to ensure NGET have a fully transparent outage planning processes, National Grid Electricity Transmission (NGET) produces a series of annual Key Performance Indicators (KPIs) to monitor outage planning performance and outage delivery.

The KPIs are set in appendix A of the GB Network Access Policy which can be found here on our [website](#).

The data below reflects the plan performance for 2022/23, for any queries please [contact us](#).

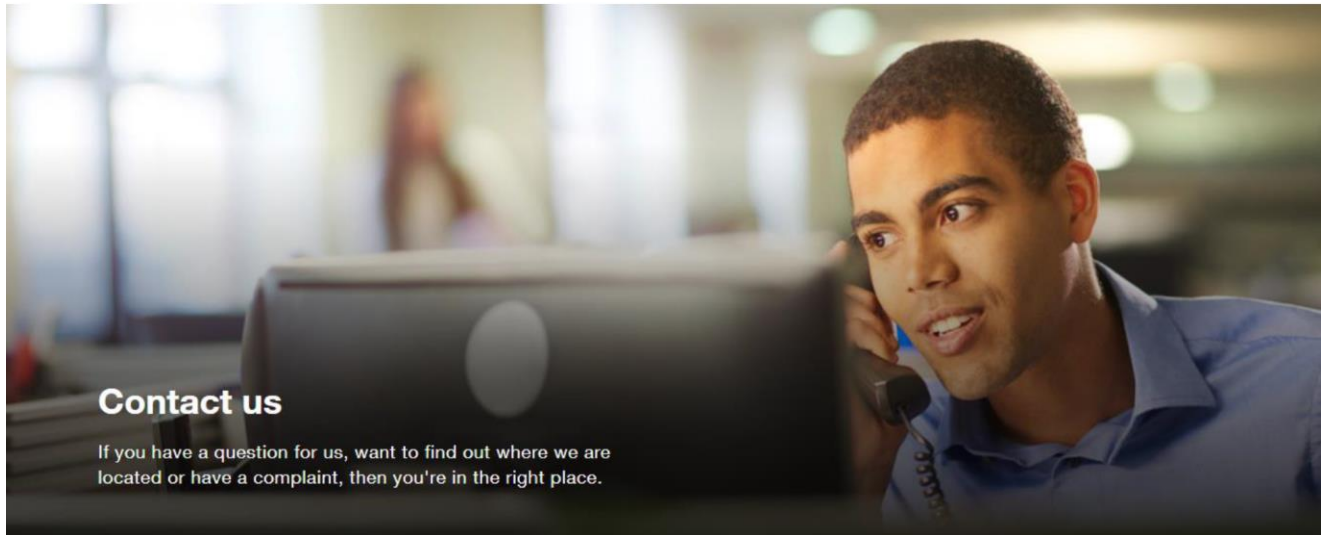
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Key Performance Indicators

Description		Measure	Comments	
1. Long term outage planning performance: Measure of the number of outages in the year ahead plan submitted at week 49 vs the number of actual outages delivered in the regulatory year. This is a high-level measure of long-term Outage planning performance.	1a	Number of outages in the year ahead plan	2155	Includes 2024 'out-of-service' and 131 'in-service' outage bookings
	1b	Number of YA outages delivered	1085	Includes 1034 'out-of-service' and 51 'in-service' outage bookings
	1c	Percentage of YA plan delivered	50%	
2. Accuracy of Year Ahead Outage Plan: This is a measure of the TOs capability to construct and deliver a robust outage plan. This is detailed measure of Long-Term Outage Planning Performance	2a	Percentage of outages in the year ahead plan started on the date agreed at the year ahead stage - week 49	26%	Includes 'out-of-service' and 'in-service' outage bookings
	2b	Percentage of outages in YA plan started on agreed week at YA stage	31%	
	2c	Percentage of outages in YA plan changed for a positive reason	7%	Includes outage bundling, request to accelerate works, early completion of works, and User or ESO requests to change an outage
3. Within Year Outage Planning Performance: Measure of new outages requested within year by the TO during the relevant regulatory year. These are essential outages to carry out	3a	No. of new within year Outages submitted to NGESO prior to Optimisation Phase		Due to issues in the data from ESO's Outage Management tool (ENAMS), this KPI will not be published for this financial year. NGET are working very closely with ESO to get this resolved
	3b	No. of new within year Outages submitted to NGESO during Optimisation Phase		
	3c	No. of new within year Outages submitted to NGESO during Delivery Phase		
4.How many connection assets or transmission circuits are out of service more than once per annum?	4	Measure of the number of times the same item of equipment or circuit is removed from service	1181	1181 represents the number of assets being out of service more than once per annum, when grouped at circuit level the value is 454.

Description			Measure	Comments
5. Outage coordination: Measure of number of times the TO has carried out different work during a single outage. Measure is based on the number of outages that have been combined into a single outage vs the total number of outages delivered in a regulatory year	5			NGET outages have work bundled via the optimisation process during year-ahead plan build this includes construction and maintenance work. Due to the nature in which NGET records information in Outage management tool (ENAMS) it cannot be reported in a volumetric way
6. Percentage of TO Outages Started Within 60mins of Agreed Start Time	6	Measure of outage start time accuracy will be the agreed Planned Start Time compared to Actual Start Time	44%	Includes in service bookings
7. Transmission Connected Generation Percentage of Annual Access Curtailed by Bilateral Connection Agreement Per Annum - Firm Connections	7	Measure of lost network access due to transmission outages and connection agreements. Measure would be 100 x (total days of actual outages \ 365).	0%	No generation was curtailed due to NGET's outages as it was all aligned with generator shutdowns
8. Transmission Connected Generation Percentage of Annual Access Curtailed by Bilateral Connection Agreement Per Annum – Non-Firm Connections	8	Measure of lost network access due to transmission outages and connection agreements. Measure would be 100 x (total days of actual outages \ 365)	0%	
9. Average Outage Duration Accuracy Measure of TO ability to plan outage durations. A negative figure would indicate outages generally overrun, a positive figure would indicate outages generally finish early	9a	In plan before week 49: % finished early	18%	These are only 'out-of-service' outage booking
		In plan before week 49: % finished on time	44%	
		In plan before week 49: % finished late	39%	
	9b	In plan after week 49: % finished early	16%	
		In plan after week 49: % finished on time	80%	
		In plan after week 49: % finished late	4%	
10. Number of Unplanned Outages due to Faults or Defects This is a measure of the number of times an asset or circuit has been removed from service due to a system fault, has been removed from service by emergency	10a	Number of system faults removing an asset or circuit from service	260	
	10b	Number of emergency switching outages	1	

Description		Measure	Comments	
		removing an asset or circuit from service		
	10c	All other unplanned outages when an asset or circuit has been made unavailable to NGENSO due to a defect	173	
11. Enhanced Service Provision Measure of the number of STCP11.4 proposals identified within a regulatory year.	11a	Number of proposals identified by NGENSO or TO	42	A total of 42 Enhanced Services were identified and submitted by either NGET or ESO
	11b	Number of proposals delivered by the TO	34	34 of the 42 proposals were confirmed as both deliverable and providing consumer benefits and were thus completed within the 2022/23 plan year.
	11c	Measure of System Operational costs savings vs cost to deliver by TO	£176.7m	Across the year, the 34 Enhanced Services delivered had a forecasted savings of £177m with a cost to achieve of £0.8m. (2022/23 price base)
12. In Service Works	12	Measure of the number of "In Service" bookings to highlight works taking place without an asset being taken out of service e.g. Telecoms works, Risk of Trips etc	508	Includes OHL delayed auto-reclose (DAR) outages, circuit risk of trips, telecoms outages, and equipment/circuit testing outages



Contact us

If you have a question for us, want to find out where we are located or have a complaint, then you're in the right place.

If you have any questions, please do [contact us](#).

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