



Network Access Planning

Key performance indicators

July 2024

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 2023/24, for any queries please [contact us](#).

The data trends for the first 3 years of the RIIO-2 period need to be fully analysed to understand what actions NGET needs to take to ensure we can improve on downward trending KPIs. Further work is being done on this as part of our review of planning processes and this will ensure we can enable better plan stability in the future.

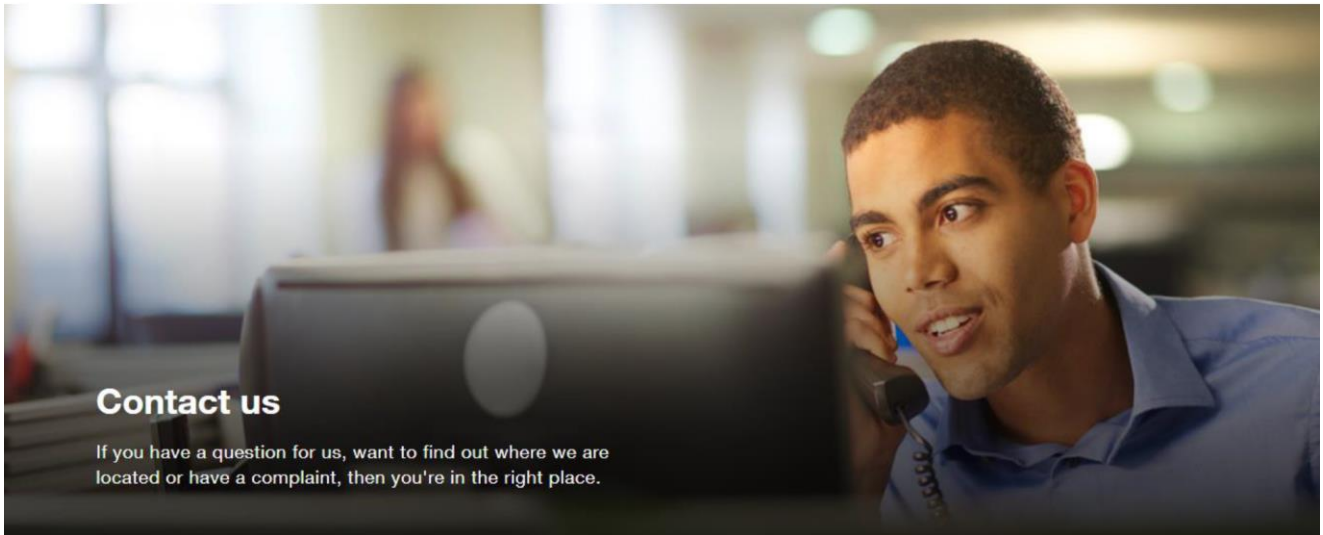
Tables

Key Performance Indicators

Description	Measure			Comments		
	FY22	FY23	FY24			
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	1914	2155	1810	Includes 1635 'out-of-service' and 175 'in-service' outage bookings
	1b	Number of YA outages delivered	1164	1085	838	Includes 787 'out-of-service' and 51 'in-service' outage bookings
	1c	Percentage of YA plan delivered	61%	50%	46%	
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	32%	26%	25%	Includes 'out-of-service' and 'in-service' outage bookings.
	2b	Percentage of outages in YA plan started on agreed week at YA stage	39%	31%	30%	
	2c	Percentage of outages in YA plan changed for a positive reason	10%	7%	5%	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 NGENSO prior to Optimisation Phase			470	
	3b	No. of new within year Outages submitted to NGENSO during Optimisation Phase			928	
	3c	No. of new within year Outages submitted to NGENSO during Delivery Phase			1438	
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	1157	1181	2846	2846 represents the number of assets being out of service more than once per annum, when grouped at circuit level the value is 770.

Description	Measure			Comments		
	FY22	FY23	FY24			
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	53%	44%	45%	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%	-	
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%	3.62%	
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	22%	18%	17%	These are only 'out-of-service' outage bookings
		In plan before week 49: % finished on time	45%	44%	44%	
		In plan before week 49: % finished late	33%	39%	39%	
	9b	In plan after week 49: % finished early	11%	16%	13%	
		In plan after week 49: % finished on time	80%	80%	83%	
		In plan after week 49: % finished late	8%	4%	4%	

Description	Measure			Comments		
	FY22	FY23	FY24			
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	64	
	10b	Number of emergency switching outages removing an asset or circuit from service		1	7	
	10c	All other unplanned outages when an asset or circuit has been made unavailable to NGENSO due to a defect		173	350	
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	55	A total of 55 Enhanced Services were identified and submitted by either NGET or ESO
	11b	Number of proposals delivered by the TO		34	25	25 of the 55 proposals were confirmed as both deliverable and providing consumer benefits and were thus completed within the 2023/24 plan year.
	11c	Measure of System Operational costs savings vs cost to deliver by TO		£176.7m	£93.9m Forecast £51.17m Outturn	Across the year, the 25 Enhanced Services delivered had forecast savings of £93.9m and outturn savings of £51.9m with a cost to achieve of forecast/actual of £0.87m/£0.76m.
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	953	508	448	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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