



# Network Access Planning

Key performance indicators

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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 2021/22, for any queries please [contact us](#).

# Tables

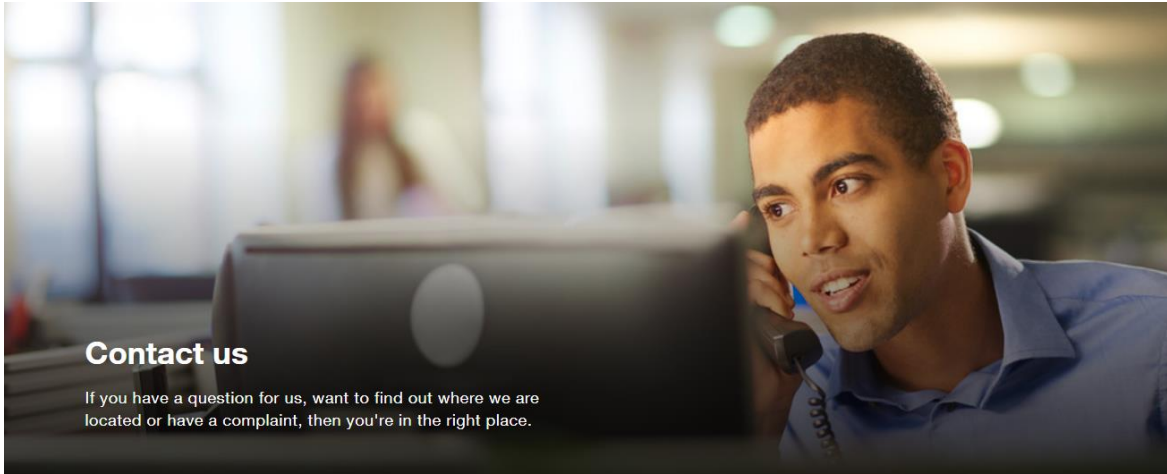
## Key Performance Indicators

Description			Measure	Comments
<b>1. Long term outage planning performance:</b> 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	Includes 1760 'out-of-service' and 154 'in-service' outage bookings  Includes 1093 'out-of-service' and 71 'in-service' outage bookings
	1b	Number of YA outages delivered	1164	
	1c	Percentage of YA plan delivered	61%	
<b>2. Accuracy of Year Ahead Outage Plan:</b> 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%	Includes 'out-of-service' and 'in-service' outage bookings
	2b	Percentage of outages in YA plan started on agreed week at YA stage	39%	
	2c	Percentage of outages in YA plan changed for a positive reason	10%	Includes outage bundling, request to accelerate works, early completion of works, and User or ESO requests to change an outage
<b>3. Within Year Outage Planning Performance:</b> Measure of new outages requested within year by the TO during the relevant regulatory year. These are essential outages to carry out	3a	Number of new within year outages submitted to NGESO prior the Optimisation phase (17-52 weeks ahead)	Unavailable	The ESO's Outage Management tool (TOGA) was replaced during 2021/22 with their newly developed eNAMS system, this went live on Sep 2021. Due to lack of functionality to produce these KPIs manually, the data for whole 2021/22 is unavailable. From 2022/23 onwards, the KPI 3 values will included in year-end reports

defect repairs, remove potential hazards or complete construction works. There is a balance of flexibility and these measures are intended to show a reduction in the number of short-term requests being made.	3b	Number of new within year outages submitted to NGESO during the Optimisation phase (4-16 weeks ahead as specified in STCP 11.1)		
	3c	Number of new within year outages submitted to NGESO during the delivery phase (0-3 weeks ahead as specified in STCP11.1)		
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	1157 represents the number of assets being out of service more than once per annum, when grouped at circuit level the value is 650. NGET will be working with ESO to ensure there is consistency in the granularity of reporting from 2022/23 onwards
<b>5. Outage coordination</b>	5	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	-	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 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%	Includes in service bookings

<b>7. Transmission Connected Generation</b> 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
<b>8. Transmission Connected Generation</b> 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%	
<b>9. Average Outage Duration Accuracy</b> 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%	'Out of service bookings' only
		In plan before week 49: % finished on time	45%	
		In plan before week 49: % finished late	33%	
	9b	In plan after week 49: % finished early	11%	
		In plan after week 49: % finished on time	80%	
		In plan after week 49: % finished late	8%	
<b>10. Number of Unplanned Outages due to Faults or Defects</b> 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	604	Total number of assets taken out of service due to fault repairs, emergency switching, auto switching of DARs. The data cannot be split into 3 categories until 2022/23 when the full functionality of eNAMS will be utilised.
	10b	Number of emergency switching outages removing an asset or circuit from service		

switching or has been made unavailable to NGESO and removed from service.	10c	All other unplanned outages when an asset or circuit has been made unavailable to NGESO due to a defect		
11. Enhanced Service Provision Measure of the number of STCP11.4 proposals identified within a regulatory year.	11a	Number of proposals identified by NGESO or TO	22	A total of 22 Enhanced Services were identified and submitted by either NGET or ESO  6 of the 22 proposals were confirmed as both deliverable and providing consumer benefits and were thus completed within the 2021/2022 plan year.  Across the year, the 6 enhanced services delivered had a forecasted constraint saving of £53.68m, with an actual ex-post value of £40.63m.
	11b	Number of proposals delivered by the TO	6	
	11c	Measure of System Operational costs savings vs cost to deliver by TO	£53.68m	
<b>12. In Service Works</b>	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	Includes OHL delayed auto-reclose (DAR) outages, circuit risk of trips, telecoms outages, and equipment/circuit testing outages



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



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