

GB Network Access Policy

Key Performance Indicators 2022/23

July 2023



Overview

As part of SSEN Transmission's commitment to ensure we have fully transparent outage planning processes, we produce a series of annual key performance indicators (KPIs) to monitor our outage planning performance and outage delivery. The KPI's have been developed following feedback from consumers and stakeholders across GB.

The KPIs are part of our obligations under the GB Network Access Policy. The Policy is designed to facilitate collaboration between the GB Transmission Owners and National Grid Electricity System Operator (NGESO) to deliver value for consumers in relation to planning, management and operation of the GB transmission network. The KPIs are described in Appendix A of the GB Network Access Policy, and can be found [here](#) on our website.

The SSEN Transmission KPIs for 2022/23 are provided in the next section.

Network Access Policy KPIs 2022/23

	DESCRIPTION	MEASURE	COMMENTS	
1	Long Term Outage Planning Performance Measure of the number of outages in the year ahead plan submitted at week 49 (Dec 2021) vs the number of actual outages delivered in the 2021/22 regulatory year (01 Apr 2022 and 31 Mar 2023). This is a high-level measure of Long-Term Outage Planning Performance			
	1.a.	Number of outages in the year ahead plan	530	517 'out-of-service' outages, and 13 'in-service' outages.
	1.b.	Number of these outages delivered	355	350 'out-of-service' outages, and 5 'in-service' outages.
	1.c.	Percentage of year ahead plan delivered	67.0%	
2	Accuracy of the Year Ahead Outage Plan This is a measure of the TO's capability to construct and deliver a robust outage plan. This is detailed measure of Long-Term Outage Planning Performance			
	2.a.	Percentage of outages started on the date agreed at the year ahead stage – week 49 (Dec 2021)	43.8%	Includes 'out-of-service' and 'in-service' outage bookings.
	2.b.	Percentage of outages started within the outage week agreed at the year ahead stage – week 49 (Dec 2021)	50.4%	Includes 'out-of-service' and 'in-service' outage bookings.
	2.c.	Percentage of outages changed in the year ahead plan for a “positive” reason.	16.6%	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 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.			
	3.a.	Number of new within year (2021/22) outages submitted to NGESO prior to the Optimisation phase (17 - 52 weeks ahead)	Unavailable	The ESO's new Outage Management system (eNAMS) is currently unable to perform the KPI 3 calculations. The ESO advise the KPI 3 functionality is still in development, and should be able to perform the calculations from next year.
	3.b.	Number of new within year (2021/22) outages submitted to NGESO during the Optimisation Phase (4 – 16 weeks ahead as specified in STCP 11.1)	Unavailable	
	3.c.	Number of new within year (2021/22) outages submitted to NGESO during the delivery Phase (0 – 3 weeks ahead as specified in STCP 11.1)	Unavailable	

	DESCRIPTION	MEASURE	COMMENTS
4	How Many Connection Assets or Transmission Circuits Are Out of Service More Than Once Per Annum?		
	Measure of the number of times the same item of equipment or circuit is removed from service.	362	Out of service outages only. The total volume was primarily as a consequence of major infrastructure and connection works requiring local circuits on outage on multiple occasions to facilitate construction and commissioning activities. This included the major works at Dalchork, Port Ann - Crossaig, Killin VISTA and St Fergus.
5	Outage Coordination		
	Measure of the 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 the regulatory year.	133	Out of service outages only. This covers alignment of construction, substation maintenance, and overhead line inspection activities where it was practical to do so in order to minimise outage impact to the ESO and to contracted Users.
6	Percentage of TO Outages Started Within 60mins of Agreed Start Time		
	Measure of outage start time accuracy will be the agreed Planned Start Time compared to the Actual Start Time.	74.1%	This amounts to 796 outages of the 1074 actual outages completed, which started within 60 mins of the agreed start times. The agreed start times include times re-scheduled up to the day before the actual outage start.
7	Transmission Connected Generation Percentage of Annual Access Curtailed by Bilateral Connection Agreement Per Annum - Firm Connections		
	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		
	Measure of lost network access due to transmission outages and connection agreements. Measure would be 100 x (total days of actual outages \ 365).	2.4%	25 generators were curtailed at some point in 2022/23, of the 47 transmission-connected generators in the SSEN Transmission area. This curtailment averaged across the 25 affected generators at 2.4% (8.6 days), varying between 16.8% for the worst affected generator, down to 0.02% for the least affected generator.

	DESCRIPTION	MEASURE	COMMENTS	
9	Average Outage Duration Accuracy			
	Measure of TO ability to plan outage durations.			
	9.a	Average outage duration accuracy – year ahead outage plan (week 49 - Dec 2020)		Includes 'out-of-service' and 'in-service' outage bookings, and only the 355 planned outages (KPI 1b) included in the week 49 (Dec 2021) baseline plan that were delivered in the 2022/23 regulatory year between 01 Apr 2022 and 31 Mar 2023.
		% of outages finished early	21.1%	
		% of outages finished late	16.8%	
	9.b	Average outage duration accuracy - within year outages (01 Apr 2021 and 31 Mar 2022)		Includes 'out-of-service' and 'in-service' outage bookings, and covers 578 of new additional outages not included in the week 49 (Dec 2021) baseline Outage Plan, and delivered in the 2022/23 regulatory year between 01 Apr 2022 and 31 Mar 2023.
% of outages finished early		15.7%		
% of outages finished late		3.8%		
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 switching or has been made unavailable to NGE SO and removed from service.			
	10.a.	Number of system faults removing an asset or circuit from service	115	Caused by operation of a protection system in response to component failures or external causes and including circuit auto-reclosures.
	10.b.	Number of emergency switching outages removing an asset or circuit from service	0	
10.c.	All other unplanned outages when an asset or circuit has been made unavailable to NGE SO due to a defect	26	Unplanned outages within operational timescales as a result of recognising a condition that is expected to develop into a fault. Includes; switchgear gas top-ups, and defect repairs on lines, cables, and substation plant/ equipment.	

	DESCRIPTION	MEASURE	COMMENTS
11	Enhanced Service Provision Measure of the number of STCP11.4 proposals identified within a regulatory year.		
	11.a. Number of proposals identified by NGESO or TO	1	Temporary circuit by-passes, at Tealing & Alyth 275kV Substations
	11.b. Number of proposals delivered by the TO	1	Installed by 14 Oct 2022
	11.c. Measure of System Operational costs savings vs cost to deliver by TO	£12.26 M	Actual net cost savings across the B02 & B04 transmission boundaries.
12	In Service Works Measure of the number of “In Service” bookings to highlight works taking place without an asset being taken out of service.	97	Includes; OHL delayed auto-reclose (DAR) outages, circuit risk of trips, telecoms outages, and equipment/circuit testing outages

Contact

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