Historical Wind Dispatch Down (Constraint and Curtailment) Percentages for Ireland (IE), Northern Ireland (NI) and All Island (AI)

Month	2011 NI	2011 IE	2011 AI	2012 NI	2012 IE	2012 AI	2013 NI	2013 IE	2013 AI	2014 NI	2014 IE	2014 AI	2015 NI	2015 IE	2015 AI	2016 NI	2016 IE	2016 AI	2017 NI	2017 IE	2017 AI	2018 NI	2018 IE	2018 AI	2019 NI	2019 IE	2019 AI	2020 NI	2020 IE	2020 AI	2021 NI	2021 IE	2021 AI	2022 NI	2022 IE	2022 AI	2023 NI	2023 IE	2023 AI	2024 NI	2024 IE	2024 AI
Jan	0.0%	0.8%	0.6%	0.5%	2.2%	1.9%	0.7%	0.4%	0.5%	2.9%	4.9%	4.5%	4.3%	4.3%	4.3%	3.4%	3.5%	3.5%	2.4%	1.9%	2.0%	5.7%	3.5%	3.9%	9.7%	3.8%	5.1%	12.3%	9.0%	9.8%	5.2%	5.3%	5.3%	8.6%	9.1%	8.9%	14.1%	9.9%	10.8%	18.2%	6.2%	8.6%
Feb	0.0%	0.6%	0.5%	0.2%	2.8%	2.2%	0.7%	0.6%	0.6%	3.2%	3.7%	3.6%	4.6%	4.1%	4.2%	3.3%	3.3%	3.1%	2.0%	1.7%	1.7%	2.9%	2.0%	2.2%	11.2%	7.0%	8.0%	17.4%	12.3%	13.4%	11.5%	10.2%	10.5%	8.3%	8.1%	8.1%	8.3%	4.9%	5.6%	23.9%	6.9%	10.2%
Mar	2.7%	1.8%	2.0%	0.8%	2.4%	2.0%	0.6%	0.3%	0.3%	1.8%	4.0%	3.5%	11.4%	8.0%	8.8%	0.9%	2.4%	2.1%	3.0%	3.4%	3.3%	5.9%	4.4%	4.7%	11.8%	9.2%	9.8%	14.5%	10.7%	11.4%	9.8%	12.8%	12.2%	6.0%	7.4%	7.1%	11.1%	6.1%	6.9%	25.3%	6.3%	9.8%
Qtr1	0.7%	1.0%	0.9%	0.5%	2.4%	2.0%	0.6%	0.4%	0.5%	2.7%	4.2%	3.9%	6.9%	5.4%	5.8%	2.4%	3.2%	3.0%	2.4%	2.3%	2.4%	4.9%	3.3%	3.6%	10.8%	6.8%	7.7%	14.9%	10.9%	11.7%	9.4%	9.7%	9.6%	7.7%	8.2%	8.1%	11.3%	7.1%	7.9%	22.5%	6.5%	9.6%
Apr	1.3%	1.2%	1.2%	0.2%	1.4%	1.2%	2.6%	4.7%	4.3%	1.8%	4.2%	3.7%	2.8%	1.8%	2.0%	0.8%	1.4%	1.3%	4.2%	3.5%	3.6%	19.2%	7.4%	9.8%	11.4%	9.0%	9.6%	21.8%	9.0%	11.8%	6.5%	1.5%	2.5%	6.7%	5.0%	5.7%	13.1%	6.0%	7.3%	39.4%	14.5%	19.5%
May	2.2%	3.5%	3.2%	0.6%	1.6%	1.4%	0.6%	6.1%	5.6%	1.5%	2.8%	2.5%	3.8%	4.4%	4.3%	1.1%	1.2%	1.2%	3.6%	3.5%	3.5%	6.1%	4.7%	5.0%	3.8%	4.1%	4.0%	19.8%	12.6%	13.9%	6.7%	10.2%	9.4%	5.5%	11.8%	10.5%	5.5%	2.9%	3.3%	22.1%	4.2%	8.0%
Jun	0.4%	0.8%	0.7%	0.4%	4.0%	3.3%	1.9%	3.7%	3.4%	0.6%	3.3%	2.7%	4.2%	5.0%	4.8%	0.3%	0.7%	0.7%	4.7%	3.9%	4.1%	11.0%	8.0%	8.6%	11.2%	5.6%	6.7%	26.2%	15.4%	17.5%	2.1%	2.4%	2.4%	13.1%	10.1%	10.7%	5.2%	3.3%	3.6%	31.0%	10.1%	14.7%
Qtr2	1.6%	2.3%	2.2%	0.4%	2.2%	1.9%	2.9%	5.0%	4.6%	1.5%	3.4%	3.0%	3.7%	3.9%	3.8%	0.8%	1.2%	1.1%	4.2%	3.7%	3.8%	13.0%	6.6%	8.0%	9.4%	6.6%	7.2%	22.7%	12.7%	14.6%	6.0%	6.1%	6.1%	8.6%	8.6%	8.6%	9.2%	4.4%	5.3%	32.5%	10.7%	15.2%
Jul	0.2%	3.3%	3.0%	0.5%	1.9%	1.6%	0.8%	4.2%	3.4%	1.6%	3.8%	3.4%	2.8%	3.8%	3.7%	2.6%	2.3%	2.4%	4.4%	2.8%	3.2%	2.1%	1.9%	2.0%	8.2%	3.8%	4.8%	12.4%	9.2%	9.8%	5.9%	0.5%	1.2%	11.4%	5.0%	5.9%	28.2%	11.5%	14.4%	38.7%	6.6%	12.8%
Aug	0.0%	0.7%	0.5%	4.0%	4.2%	4.1%	2.4%	5.4%	4.7%	3.8%	3.5%	3.6%	5.0%	5.8%	5.6%	7.0%	4.6%	5.0%	3.1%	2.8%	2.9%	5.8%	2.2%	3.0%	15.2%	8.4%	9.8%	14.4%	11.4%	11.9%	7.0%	7.1%	7.1%	8.9%	3.5%	4.6%	19.5%	7.7%	9.9%	43.4%	22.5%	26.9%
Sep	2.4%	3.9%	3.7%	0.4%	4.8%	3.7%	0.5%	4.2%	3.3%	0.1%	2.2%	1.8%	1.5%	2.7%	2.5%	5.8%	5.6%	5.6%	4.2%	5.4%	5.1%	13.1%	5.6%	7.4%	8.4%	8.2%	8.2%	9.0%	9.0%	9.0%	7.5%	5.5%	5.9%	8.1%	7.0%	7.2%	25.4%	11.1%	13.8%	30.6%	10.1%	13.9%
Qtr3	1.5%	3.1%	2.6%	1.5%	3.8%	3.3%	1.3%	4.6%	3.9%	2.4%	3.3%	3.1%	3.1%	4.1%	3.9%	5.0%	4.3%	4.8%	3.9%	3.6%	3.9%	8.7%	3.6%	4.8%	11.0%	7.3%	8.0%	11.6%	9.8%	10.2%	7.1%	5.1%	5.4%	9.4%	4.8%	5.9%	24.3%	10.1%	12.7%	38.5%	14.8%	19.4%
Oct	2.4%	4.7%	4.3%	0.0%	0.3%	0.2%	1.6%	5.9%	5.0%	4.5%	8.2%	7.4%	4.2%	3.8%	3.9%	1.9%	1.8%	1.8%	14.6%	9.2%	10.6%	10.2%	6.9%	7.7%	7.4%	6.4%	6.6%	12.4%	13.9%	13.6%	9.7%	8.0%	8.4%	13.8%	11.8%	12.2%	27.4%	8.9%	11.2%	22.0%	11.2%	12.2%
Nov	1.2%	2.3%	2.1%	0.1%	1.0%	0.8%	4.0%	3.0%	3.2%	2.0%	3.2%	3.0%	6.9%	6.8%	6.9%	2.7%	1.0%	1.3%	3.2%	2.5%	2.6%	10.2%	5.2%	6.4%	7.4%	3.9%	4.5%	12.8%	13.4%	13.3%	6.4%	6.1%	6.2%	11.3%	9.3%	9.7%	20.7%	10.0%	11.7%	19.1%	8.6%	10.6%
Dec	0.7%	2.2%	1.9%	0.8%	2.8%	2.5%	2.0%	4.4%	3.8%	4.5%	5.0%	4.9%	6.2%	6.3%	6.3%	3.8%	3.1%	3.3%	5.3%	2.5%	3.1%	14.9%	7.2%	8.9%	16.2%	9.6%	11.0%	9.8%	9.7%	9.7%	6.4%	5.4%	5.6%	10.0%	7.5%	7.9%	28.0%	15.2%	17.6%			
Qtr4	1.4%	2.9%	2.6%	0.4%	1.6%	1.4%	2.4%	4.5%	4.0%	3.9%	5.7%	5.3%	6.1%	6.0%	6.0%	3.1%	2.1%	2.3%	8.5%	4.7%	5.7%	11.7%	6.4%	7.8%	11.6%	6.9%	7.8%	11.1%	12.3%	12.2%	7.5%	6.4%	6.6%	11.9%	9.7%	10.1%	26.0%	12.1%	14.8%	20.7%	10.0%	12.1%
Year Total DD	1.3%	2.4%	2.2%	0.7%	2.5%	2.1%	1.9%	3.5%	3.2%	2.8%	4.4%	4.1%	5.3%	5.1%	5.1%	3.2%	2.8%	2.9%	5.0%	3.7%	4.0%	9.4%	5.0%	6.0%	10.7%	6.9%	7.7%	14.8%	11.4%	12.1%	7.8%	7.3%	7.4%	9.4%	8.3%	8.5%	18.6%	8.9%	10.7%	28.4%	10.0%	13.7%
Constraints	0.3%	0.5%	0.4%	0.3%	0.9%	0.8%	0.5%	1.0%	0.9%	1.0%	1.5%	1.4%	1.9%	1.8%	1.8%	1.3%	1.4%	1.4%	1.9%	1.0%	1.2%	4.0%	1.7%	2.2%	4.7%	3.8%	4.0%	6.6%	6.1%	6.2%	4.2%	4.5%	4.4%	5.8%	4.8%	5.0%	14.1%	4.2%	6.1%	25.0%	5.2%	9.1%
Curtailments	1.1%	2.0%	1.8%	0.4%	1.5%	1.3%	1.3%	2.5%	2.3%	1.8%	2.9%	2.6%	3.4%	3.3%	3.3%	1.9%	1.4%	1.5%	3.1%	2.6%	2.7%	5.4%	3.3%	3.8%	6.0%	3.1%	3.7%	8.2%	5.3%	5.9%	3.6%	2.8%	3.0%	3.6%	3.5%	3.5%	4.5%	4.7%	4.7%	3.4%	4.9%	4.6%
Wind Installed Capacity (MW)	512	1,585	2,097	600	1,703	2,303	640	1,923	2,563	729	2,266	2,996	751	2,447	3,198	943	2,795	3,737	1,154	3,312	4,466	1,276	3,667	4,943	1,276	4,120	5,396	1,276	4,300	5,576	1,351	4,332	5,683	1,351	4,527	5,878	1,364	4,730	6,095			
Wind Generation (GWh)	943	4,256	5,198	1,020	4,102	5,122	1,259	4,642	5,901	1,453	5,116	6,568	1,803	6,537	8,339	1,725	6,115	7,840	2,051	7,229	9,280	2,391	8,685	11,076	2,462	9,532	11,994	2,630	11,138	13,768	2,168	9,527	11,695	2,781	10,895	13,676	2,335	11,422	13,757			
Wind Capacity Factors	21%	31%	28%	21%	28%	27%	23%	29%	28%	24%	28%	27%	28%	32%	31%	23%	27%	26%	22%	27%	26%	22%	27%	26%	22%	28%	27%	24%	30%	29%	19%	25%	24%	24%	28%	27%	20%	28%	26%			

SNSP Limit:
- 2011: 50%
- 2012: 50%
- 2013: 50%
- 2014: 50%
- 2015: 55% Trial from Oct
- 2016: 55% Perm from Mar; 60% Trial from Nov
- 2017: 60% Perm from Mar; 65% Trial from Nov
- 2018: 65% Perm from Apr
- 2019: 65%
- 2020: 65%
- 2021: 70% Trial from Jan; 70% Perm from Apr; 75% Trial from Apr
- 2022: 75% Perm from Apr
- 2023: 75%
- 2024: 75%

Notes:

"Dispatch Down" consists of constraints + curtailments. All wind figures included (controllable + non-controllable).

The darker shaded cells indicate higher dispatch-down percentages in order to produce a graphical representation similar to a heat map.

A more accurate methodology for calculating wind dispatch down was implemented from 2016. Figures from previous years are best estimates.

Wind installed capacities, generation and capacity factors are indicative and based on the latest available information.

SNSP (System Non-Synchronous Penetration) is the sum of non-synchronous generation (such as wind, solar and HVDC imports) as a percentage of total demand and exports.

When the SNSP limit is raised, a trial period takes place before it becomes permanent. During the trial period, the system is operated at this increased SNSP limit except in times of extreme system events or during system testing.

For more information see our annual and monthly dispatch down reports on: http://www.eirgridgroup.com/how-the-grid-works/renewables/ or: https://www.soni.ltd.uk/how-the-grid-works/renewables/

2023

			Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2023
Wind	AI	Dispatch Down	10.8%	5.6%	6.9%	7.9%	7.3%	3.3%	3.6%	5.3%	14.4%	9.9%	13.8%	12.7%	13.2%	11.7%	17.6%	14.8%	10.7%
		Constraints	4.3%	3.6%	3.8%	3.9%	4.2%	2.9%	3.1%	3.5%	9.4%	7.8%	8.9%	8.7%	10.1%	7.7%	5.9%	7.4%	6.1%
		Curtailments	6.5%	2.0%	3.1%	4.0%	3.1%	0.4%	0.5%	1.7%	4.9%	2.2%	4.9%	4.0%	3.1%	4.0%	11.7%	7.3%	4.7%
	IE	Dispatch Down	9.9%	4.9%	6.1%	7.1%	6.0%	2.9%	3.3%	4.4%	11.5%	7.7%	11.1%	10.1%	8.9%	10.0%	15.2%	12.1%	8.9%
		Constraints	3.4%	2.8%	3.2%	3.1%	3.1%	2.4%	2.8%	2.9%	6.8%	5.5%	5.7%	6.0%	5.3%	6.0%	3.2%	4.6%	4.2%
		Curtailments	6.6%	2.1%	2.9%	4.0%	2.8%	0.4%	0.5%	1.6%	4.7%	2.2%	5.4%	4.1%	3.6%	3.9%	12.0%	7.5%	4.7%
	NI	Dispatch Down	14.1%	8.3%	11.1%	11.3%	13.1%	5.5%	5.2%	9.2%	28.2%	19.5%	25.4%	24.3%	27.4%	20.7%	28.0%	26.0%	18.6%
		Constraints	7.9%	6.5%	6.9%	7.2%	8.6%	5.2%	4.7%	6.8%	22.0%	17.4%	22.8%	20.7%	25.6%	16.2%	17.3%	19.5%	14.1%
		Curtailments	6.2%	1.8%	4.2%	4.1%	4.5%	0.3%	0.5%	2.4%	6.2%	2.1%	2.6%	3.6%	1.8%	4.5%	10.6%	6.5%	4.5%
Solar	AI	Dispatch Down	12.5%	5.7%	7.2%	7.7%	2.9%	3.9%	10.6%	6.5%	11.3%	11.4%	14.7%	12.3%	8.9%	2.8%	14.0%	7.8%	9.1%
		Constraints	7.7%	5.2%	5.0%	5.5%	2.5%	3.9%	10.5%	6.4%	7.4%	9.2%	11.3%	9.1%	5.5%	0.8%	1.0%	3.2%	7.0%
		Curtailments	4.7%	0.5%	2.2%	2.1%	0.4%	0.0%	0.1%	0.1%	3.9%	2.3%	3.4%	3.2%	3.4%	2.0%	13.0%	4.5%	2.1%
	IE	Dispatch Down					0.1%	4.6%	13.3%	7.5%	10.5%	11.7%	14.9%	12.1%	8.5%	2.4%	13.4%	7.4%	9.5%
		Constraints					0.0%	4.6%	13.2%	7.4%	6.5%	9.4%	10.9%	8.7%	4.6%	0.1%	0.0%	2.4%	7.2%
		Curtailments					0.1%	0.0%	0.1%	0.1%	4.0%	2.3%	4.0%	3.4%	3.8%	2.3%	13.4%	5.0%	2.3%
	NI	Dispatch Down	12.5%	5.7%	7.2%	7.7%	9.3%	1.8%	1.4%	3.5%	14.5%	10.5%	13.7%	12.9%	10.8%	4.6%	18.2%	9.8%	7.9%
		Constraints	7.7%	5.2%	5.0%	5.5%	8.2%	1.7%	1.3%	3.2%	11.0%	8.4%	12.9%	10.6%	9.4%	4.3%	7.9%	7.5%	6.4%
		Curtailments	4.7%	0.5%	2.2%	2.1%	1.1%	0.1%	0.1%	0.3%	3.4%	2.1%	0.8%	2.2%	1.4%	0.3%	10.3%	2.2%	1.4%
All Renewables	AI	Dispatch Down	9.7%	5.1%	6.2%	7.2%	6.3%	2.8%	4.0%	4.7%	12.9%	8.9%	12.6%	11.4%	11.2%	10.1%	16.1%	13.0%	9.5%
	IE	Dispatch Down	8.8%	4.5%	5.5%	6.4%	5.1%	2.6%	4.0%	4.1%	10.6%	7.1%	10.4%	9.3%	7.5%	8.6%	13.8%	10.6%	8.0%
	NI	Dispatch Down	12.9%	7.5%	9.8%	10.2%	11.4%	4.0%	3.7%	7.2%	23.6%	16.6%	21.8%	20.6%	24.2%	18.0%	26.0%	23.3%	16.1%

2024

			Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2024
Wind	AI	Dispatch Down	8.6%	10.2%	9.8%	9.6%	19.5%	8.0%	14.7%	15.2%	12.8%	26.9%	13.9%	19.4%	13.3%	10.6%		12.1%	13.7%
		Constraints	4.4%	6.1%	6.3%	5.7%	8.4%	5.3%	11.6%	8.6%	11.9%	21.3%	8.9%	15.1%	9.9%	6.4%		8.3%	9.1%
		Curtailments	4.2%	4.1%	3.5%	3.9%	11.1%	2.7%	3.1%	6.6%	0.9%	5.6%	5.0%	4.3%	3.5%	4.1%		3.8%	4.6%
	IE	Dispatch Down	6.2%	6.9%	6.3%	6.5%	14.5%	4.2%	10.1%	10.7%	6.6%	22.5%	10.1%	14.8%	11.2%	8.6%		10.0%	10.0%
		Constraints	1.9%	2.3%	2.8%	2.3%	3.0%	1.3%	6.3%	3.6%	5.6%	16.2%	4.6%	9.9%	7.8%	4.4%		6.2%	5.2%
		Curtailments	4.4%	4.6%	3.5%	4.1%	11.6%	2.9%	3.8%	7.1%	1.0%	6.3%	5.5%	4.8%	3.4%	4.2%		3.8%	4.9%
	NI	Dispatch Down	18.2%	23.9%	25.3%	22.5%	39.4%	22.1%	31.0%	32.5%	38.7%	43.4%	30.6%	38.5%	22.0%	19.1%		20.7%	28.4%
		Constraints	14.7%	22.0%	21.9%	19.6%	29.9%	19.8%	30.5%	27.6%	38.2%	40.4%	28.0%	36.2%	18.3%	15.6%		17.1%	25.0%
		Curtailments	3.5%	1.9%	3.4%	2.9%	9.5%	2.3%	0.5%	4.9%	0.5%	3.0%	2.6%	2.3%	3.7%	3.6%		3.6%	3.4%
Solar	AI	Dispatch Down	4.6%	3.9%	8.8%	6.5%	13.1%	3.0%	7.6%	7.6%	3.9%	11.1%	6.8%	7.3%	4.7%	3.8%		4.4%	7.0%
		Constraints	1.2%	1.2%	2.5%	1.8%	2.4%	1.8%	3.9%	2.8%	2.7%	6.3%	3.8%	4.3%	1.8%	0.9%		1.5%	3.2%
		Curtailments	3.4%	2.7%	6.3%	4.7%	10.8%	1.3%	3.7%	4.8%	1.2%	4.9%	3.1%	3.0%	2.9%	2.9%		2.9%	3.8%
	IE	Dispatch Down	3.4%	3.5%	7.7%	5.6%	12.1%	1.5%	5.8%	6.1%	1.8%	7.9%	5.7%	5.0%	3.6%	3.2%		3.4%	5.3%
		Constraints	0.0%	0.0%	0.0%	0.0%	0.1%	0.2%	1.5%	0.7%	0.4%	2.5%	2.2%	1.6%	0.6%	0.1%		0.4%	1.0%
		Curtailments	3.4%	3.5%	7.6%	5.6%	12.0%	1.3%	4.3%	5.4%	1.4%	5.4%	3.5%	3.4%	3.0%	3.1%		3.0%	4.3%
	NI	Dispatch Down	11.9%	5.3%	12.8%	10.2%	18.3%	10.8%	17.8%	15.6%	18.8%	33.1%	13.0%	22.1%	11.8%	8.5%		10.9%	16.8%
		Constraints	8.3%	5.0%	11.5%	9.0%	13.7%	9.9%	17.2%	13.7%	18.3%	32.0%	12.3%	21.3%	9.8%	6.5%		8.9%	15.4%
		Curtailments	3.6%	0.2%	1.3%	1.3%	4.6%	1.0%	0.6%	1.9%	0.5%	1.1%	0.8%	0.8%	1.9%	2.0%		1.9%	1.4%
All Renewables	AI	Dispatch Down	7.4%	8.8%	8.7%	8.3%	16.8%	6.2%	12.2%	12.6%	10.2%	24.0%	12.3%	16.8%					12.1%
	IE	Dispatch Down	5.4%	5.9%	5.6%	5.7%	12.5%	3.3%	8.5%	8.9%	5.3%	20.1%	9.2%	12.8%	9.9%	7.5%		8.8%	8.7%
	NI	Dispatch Down	16.1%	21.1%	22.2%	19.9%	34.2%	17.6%	25.6%	27.0%	29.7%	38.4%	25.0%	32.2%					25.8%