

All Island Quarterly Wind Dispatch Down Report 2018

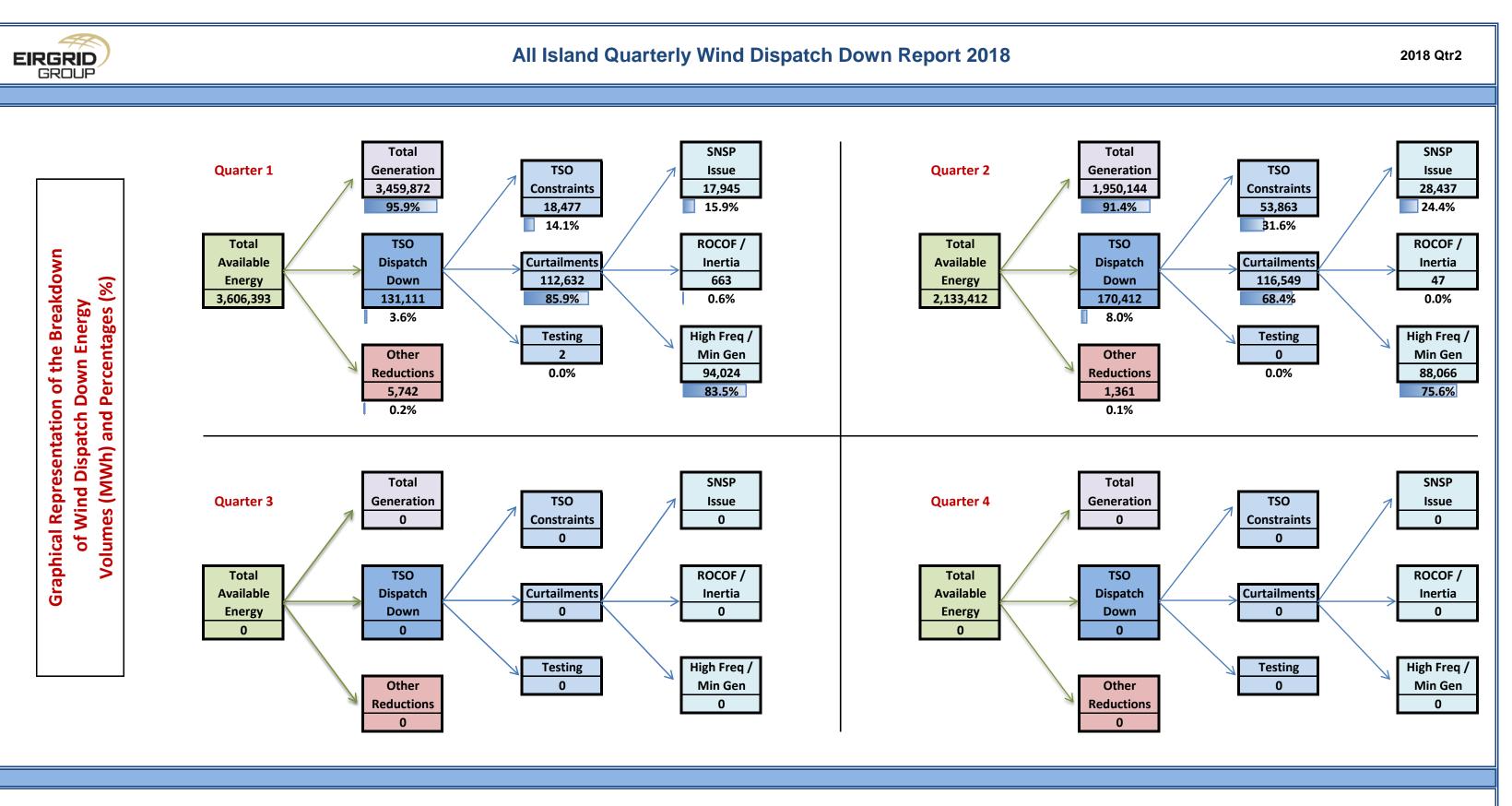
Volumes (MWh)	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
Available Energy	1,489,990	1,073,356	1,043,047	3,606,393	986,868	688,707	457,836	2,133,412	-	-	-	-	-	-	-	-	5,739,804
Generation	1,423,116	1,046,496	990,259	3,459,872	883,883	652,498	413,762	1,950,144	-	-	-	-	-	-	-	-	5,410,015
TSO Dispatch Down	58,403	23,327	49,381	131,111	96,932	34,188	39,293	170,412	-	-	-	-	-	-	-	-	301,524
Other Reductions	3,960	1,492	290	5,742	817	108	436	1,361	-	-	-	-	-	-	-	-	7,102
TSO Dispatch Down:																	
TSO Constraints	11,003	3,142	4,332	18,477	9,879	16,519	27,465	53,863	-	-	-	-	-	-	-	-	72,340
Curtailments	47,398	20,185	45,049	112,632	87,053	17,669	11,828	116,549	-	-	-	-	-	-	-	-	229,181
TSO Testing	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2
Curtailments:																	
SNSP Issue	8,378	2,161	7,406	17,945	28,435	2	-	28,437	-	-	-	-	-	-	-	-	46,382
ROCOF / Inertia	1	550	112	663	47	-	-	47	-	-	-	-	-	-	-	-	710
High Freq / Min Gen	39,019	17,474	37,531	94,024	58,571	17,667	11,828	88,066	-	-	-	-	-	-	-	-	182,089

Percentages	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
Generation	95.5%	97.5%	94.9%	95.9%	89.6%	94.7%	90.4%	91.4%									94.3%
TSO Dispatch Down	3.9%	2.2%	4.7%	3.6%	9.8%	5.0%	8.6%	8.0%									5.3%
Other Reductions	0.3%	0.1%	0.0%	0.2%	0.1%	0.0%	0.1%	0.1%									0.1%
TSO Dispatch Down:																	
TSO Constraints	18.8%	13.5%	8.8%	14.1%	10.2%	48.3%	69.9%	31.6%									24.0%
Curtailments	81.2%	86.5%	91.2%	85.9%	89.8%	51.7%	30.1%	68.4%									76.0%
TSO Testing	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									0.0%
Curtailments:																	
SNSP Issue	17.7%	10.7%	16.4%	15.9%	32.7%	0.0%	0.0%	24.4%									20.2%
ROCOF / Inertia	0.0%	2.7%	0.2%	0.6%	0.1%	0.0%	0.0%	0.0%						7 			0.3%
High Freq / Min Gen	82.3%	86.6%	83.3%	83.5%	67.3%	100.0%	100.0%	75.6%									79.5%

User Guide Available at: http://www.eirgridgroup.com/how-the-grid-works/renewables/

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All Island Quarterly Wind Dispatch Down Report 2018

		2011			2012			2013			2014			2015			2016			2017			2018	
Month	NI	IE	ΑΙ	NI	IE	AI	NI	IE	AI	NI	IE	AI	NI	IE	AI	NI	IE	AI	NI	IE	AI	NI	IE	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%
Feb	0.0%	0.6%	0.5%	0.2%	2.8%	2.2%	0.3%	0.7%	0.6%	3.2%	3.7%	3.6%	4.6%	4.1%	4.2%	2.3%	3.3%	3.1%	2.0%	1.7%	1.7%	2.9%	2.0%	2.2%
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%
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%
Apr	1.3%	1.2%	1.3%	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%
May	2.2%	3.5%	3.2%	0.6%	1.6%	1.4%	3.7%	6.1%	5.6%	1.5%	2.8%	2.5%	3.8%	4.5%	4.3%	1.1%	1.2%	1.2%	3.6%	3.5%	3.5%	6.1%	4.7%	5.0%
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%
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%
Jul	0.2%	3.3%	2.8%	0.5%	1.9%	1.6%	0.8%	4.2%	3.4%	1.6%	3.9%	3.4%	2.8%	3.8%	3.7%	6.2%	2.3%	3.1%	4.4%	2.8%	3.2%		1	
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%		1	
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%			
Qtr3	1.5%	3.1%	2.8%	1.5%	3.8%	3.3%	1.3%	4.6%	3.9%	2.4%	3.3%	3.1%	3.1%	4.1%	3.9%	6.3%	4.4%	4.8%	3.9%	3.9%	3.9%		<u> </u>	
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%		i ⁱ	
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%		1	
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%		<u> </u>	
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%	3.0%	2.1%	2.3%	8.5%	4.9%	5.7%		<u> </u>	
Year Total	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%	7.9%	4.5%	5.3%
Wind Installed Capacity (MW)	515	1,585	2,100	603	1,703	2,306	644	2,008	2,652	733	2,279	3,013	755	2,447	3,203	948	2,779	3,727	1,160	3,311	4,471			
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			
Wind Capacity Factors	21%	31%	28%	21%	28%	27%	23%	29%	27%	24%	27%	26%	28%	32%	31%	23%	27%	26%	22%	27%	26%			
SNSP Limit		50%	,		50%			50%			50%		55% -	Trial fror	n Oct		erm froi rial fron			erm fror rial fron		65% Pe	erm fro	m Apr

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

Notes:

"Dispatch Down" consists of TSO constraints, curtailments and wind testing.

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.

User Guide Available at: http://www.eirgridgroup.com/how-the-grid-works/renewables/

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Region	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
NI	5.7%	2.9%	5.9%	4.9%	19.2%	6.1%	11 .0 %	13.0%									7.9%
м	5.5%	3.1%	5.6%	4.8%	7.6%	3.5%	3.0%	5.3%									5.0%
NE	2.3%	2.4%	5.3%	3.2%	9.5%	2.1%	1.9%	5.3%									3.9%
NW	5.7%	2.3%	6.4%	4.9%	10.6%	5.3%	13.1%	9.4%									6.6%
SE	4.2%	2.9%	5.3%	4.1%	8.8%	4.0%	2.6%	5.9%									4.8%
SW	3.2%	1.9%	4.3%	3.1%	5.5%	8.7%	15.2%	8.7%									5.2%
w	3.2%	1.9%	4.8%	3.3%	12.4%	2.2%	3.4%	7.1%									4.8%

Regional Wind Dispatch Down Percentages

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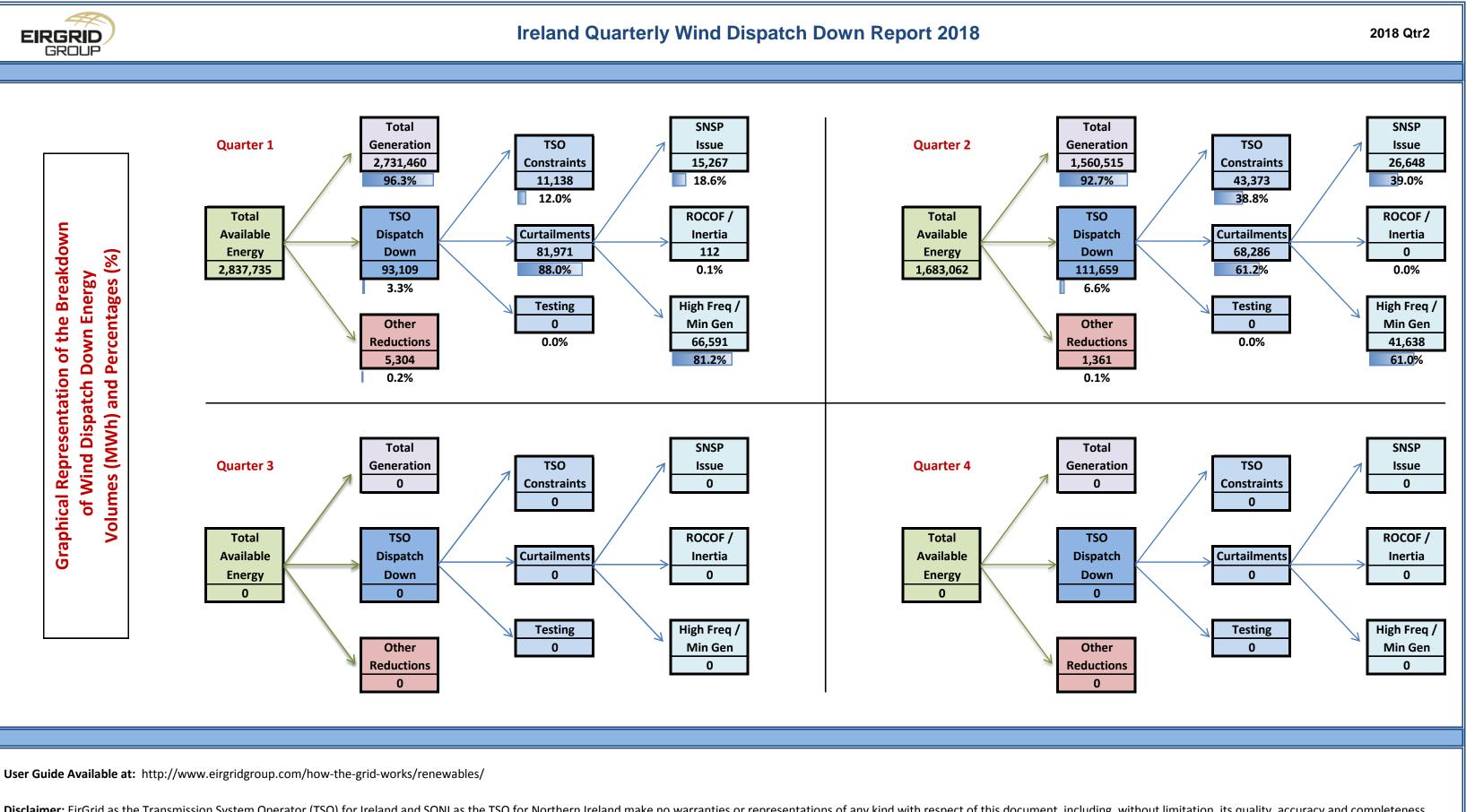
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EIRGRID GROUP						Ireland Q	uarterly	Wind Dis	spatch D	own Rep	ort 2018	\$					2018 Qtr2
Volumes (MWh)	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
Available Energy	1,175,274	854,216	808,245	2,837,735	783,147	535,868	364,047	1,683,062	-	-	-		-	-	-	-	4,520,797
Generation	1,127,424	834,092	769,944	2,731,460	720,527	509,379	330,608	1,560,515									4,291,975
TSO Dispatch Down	40,619	16,989	35,500	93,109	57,728	24,920	29,011	111,659	_	-	-	-	-	-	-	_	204,768
Other Reductions	3,606	1,450	249	5,304	817	108	436	1,361		_					-		6,665
TSO Dispatch Down:	3,000	1,100	213	3,301	017	100	150	1,501									0,003
TSO Constraints	8,274	1,328	1,536	11,138	7,553	13,087	22,733	43,373	-	-	-	_	-		-	-	54,511
Curtailments	32,345	15,661	33,964	81,971	50,175	11,833	6,278	68,286	-	-			-				150,257
TSO Testing	-				-	-								-			
Curtailments:																	
SNSP Issue	6,531	1,476	7,260	15,267	26,647	2	-	26,648	-	-	-	-	-	-	-	-	41,916
ROCOF / Inertia	-		112	112	-		-			-		-		-		-	112
High Freq / Min Gen	25,815	14,185	26,591	66,591	23,529	11,832	6,278	41,638	-				-				108,230
Percentages	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
Generation	95.9%	97.6%	95.3%	96.3%	92.0%	95.1%	90.8%	92.7%									94.9%
TSO Dispatch Down	3.5%	2.0%	4.4%	3.3%	7.4%	4.7%	8.0%	6.6%						j			4.5%
Other Reductions	0.3%	0.2%	0.0%	0.2%	0.1%	0.0%	0.1%	0.1%									0.1%
TSO Dispatch Down:																	
TSO Constraints	20.4%	7.8%	4.3%	12.0%	13.1%	52.5%	78.4%	38.8%									26.6%
Curtailments	79.6%	92.2%	95.7%	88.0%	86.9%	47.5%	21.6%	61.2%									73.4%
TSO Testing	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									0.0%
Curtailments:																	
SNSP Issue	20.2%	9.4%	21.4%	18.6%	53.1%	0.0%	0.0%	39.0%									27.9%
ROCOF / Inertia	0.0%	0.0%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%]	0.1%
High Freq / Min Gen	79.8%	90.6%	78.3%	81.2%	46.9%	100.0%	100.0%	61.0%				T		!		T	72.0%

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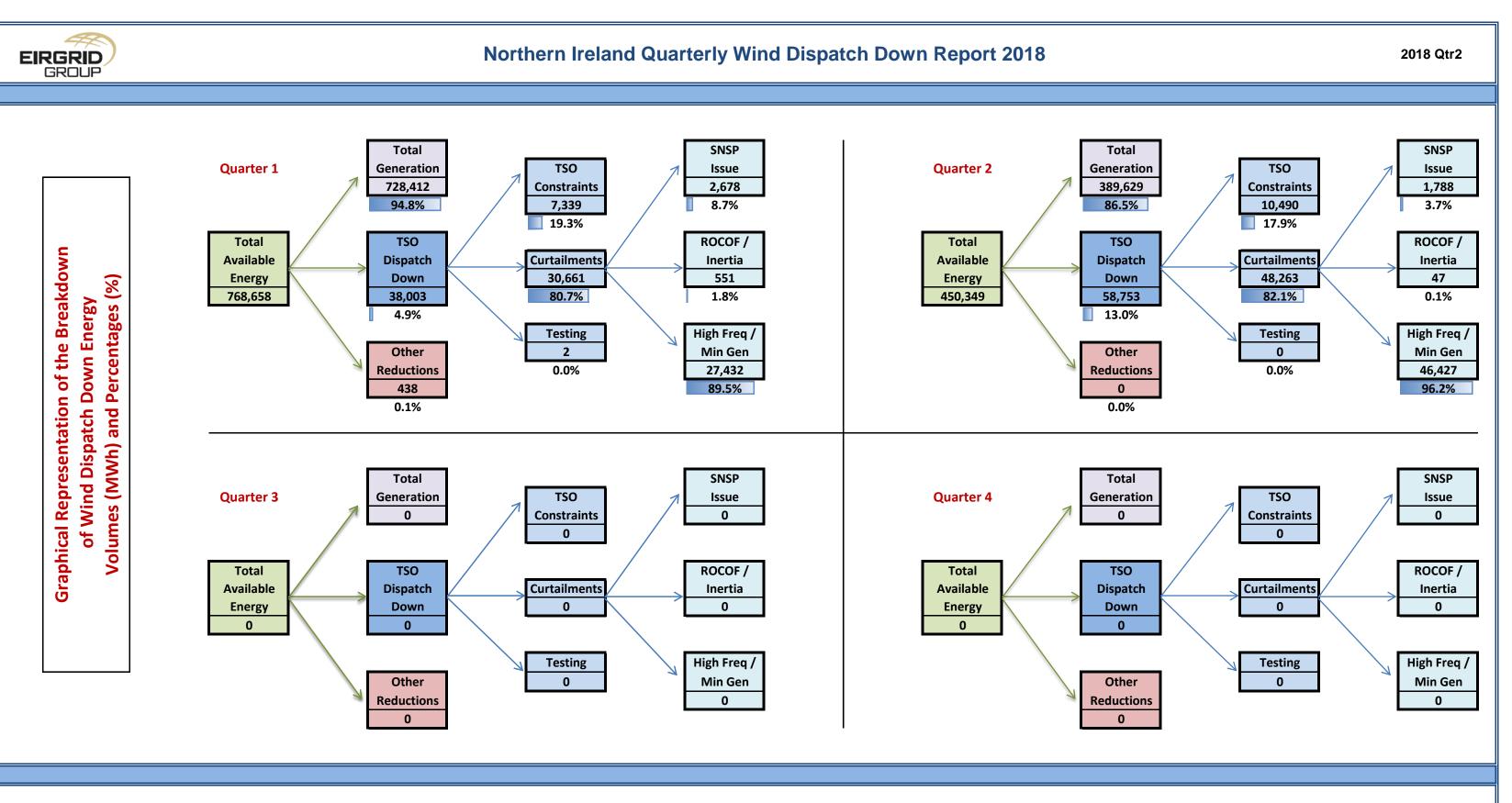
Northern Ireland Quarterly Wind Dispatch Down Report 2018

Volumes (MWh)	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2018
Available Energy	314,716	219,140	234,802	768,658	203,721	152,839	93,789	450,349	-	-	-	-	-	-	-	-	1,219,00
Generation	295,693	212,404	220,315	728,412	163,356	143,119	83,153	389,629	-	-	-	-	-	-	-	-	1,118,04
TSO Dispatch Down	17,784	6,338	13,881	38,003	39,203	9,268	10,282	58,753	-	-	-	-	-	-	-	-	96,75
Other Reductions	354	43	41	438	-	-	-	-	-	-	-	-	-	-	-	-	438
TSO Dispatch Down:																	
TSO Constraints	2,729	1,814	2,796	7,339	2,326	3,432	4,732	10,490	-	-	_	-	-	-		-	17,82
Curtailments	15,053	4,523	11,085	30,661	36,877	5,836	5 <i>,</i> 550	48,263	-	-	-	-	-	_	_	-	78,92
TSO Testing	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	
Curtailments:																	
SNSP Issue	1,848	685	145	2,678	1,788	0	-	1,788	-	-		-	-	-		-	4,46
	1	550	-	551	47	-	-	47	-	-	-	-	-	-	-	_	598
ROCOF / Inertia	j 1	550															
	13,204	3,289	10,940	27,432	35,042	5,836	5,550	46,427	-	-	-	-	-	-	-	-	
High Freq / Min Gen	13,204 Jan		10,940 Mar		35,042 Apr	5,836 May	5,550 Jun	46,427 Qtr2	- Jul	- Aug	- Sep	- Qtr3	- Oct	- Nov	Dec	- Qtr4	
High Freq / Min Gen Percentages		3,289		27,432					- Jul	- Aug	- Sep	- Qtr3	- Oct	Nov	Dec	- Qtr4	73,859
High Freq / Min Gen Percentages Generation	Jan	3,289 Feb	Mar	27,432 Qtr1	Apr	May	Jun	Qtr2	- Jul	- Aug	- Sep	- Qtr3	- Oct	- Nov	Dec	- Qtr4	2018
High Freq / Min Gen Percentages Generation TSO Dispatch Down	Jan 94.0%	3,289 Feb 96.9%	Mar 93.8%	27,432 Qtr1 94.8%	Apr 80.2%	May 93.6%	Jun 88.7%	Qtr2 86.5%	Jul	Aug	- Sep	- Qtr3	- Oct	Nov	Dec	- Qtr4	73,859 2018 91.7%
High Freq / Min Gen Percentages Generation TSO Dispatch Down Other Reductions	Jan 94.0% 5.7%	3,289 Feb 96.9% 2.9%	Mar 93.8% 5.9%	27,432 Qtr1 94.8% 4.9%	Apr 80.2% 19.2%	May 93.6% 6.1%	Jun 88.7% 11.0%	Qtr2 86.5% 13.0%	Jul	- Aug	- Sep	Qtr3	- Oct	- Nov	Dec	- Qtr4	73,859 2018 91.7% 7.9%
High Freq / Min Gen Percentages Generation TSO Dispatch Down Other Reductions TSO Dispatch Down:	Jan 94.0% 5.7%	3,289 Feb 96.9% 2.9%	Mar 93.8% 5.9%	27,432 Qtr1 94.8% 4.9%	Apr 80.2% 19.2%	May 93.6% 6.1%	Jun 88.7% 11.0%	Qtr2 86.5% 13.0%	Jul	- Aug	- Sep	_ Qtr3	- Oct	- Nov	Dec	- Qtr4	73,859 2018 91.7% 7.9%
High Freq / Min Gen Percentages Generation TSO Dispatch Down Other Reductions TSO Dispatch Down: TSO Constraints Curtailments	Jan 94.0% 5.7% 0.1% 15.3% 84.6%	3,289 Feb 96.9% 2.9% 0.0% 28.6% 71.4%	Mar 93.8% 5.9% 0.0% 20.1% 79.9%	27,432 Qtr1 94.8% 4.9% 0.1% 19.3% 80.7%	Apr 80.2% 19.2% 0.0% 5.9% 94.1%	May 93.6% 6.1% 0.0% 37.0% 63.0%	Jun 88.7% 11.0% 0.0% 46.0% 54.0%	Qtr2 86.5% 13.0% 0.0% 17.9% 82.1%	Jul	- Aug	- Sep	- Qtr3	- Oct	- Nov	Dec	- Qtr4	73,859 2018 91.7% 7.9% 0.0% 18.4% 81.6%
High Freq / Min Gen Percentages Generation TSO Dispatch Down Other Reductions TSO Dispatch Down: TSO Constraints Curtailments	Jan 94.0% 5.7% 0.1% 15.3%	3,289 Feb 96.9% 2.9% 0.0% 28.6%	Mar 93.8% 5.9% 0.0% 20.1%	27,432 Qtr1 94.8% 4.9% 0.1% 19.3%	Apr 80.2% 19.2% 0.0% 5.9%	May 93.6% 6.1% 0.0% 37.0%	Jun 88.7% 11.0% 0.0% 46.0%	Qtr2 86.5% 13.0% 0.0% 17.9%	Jul	Aug	- Sep		- Oct	- Nov	Dec	- Qtr4	73,859 2018 91.7% 7.9% 0.0% 18.4%
High Freq / Min Gen Percentages Generation TSO Dispatch Down Other Reductions TSO Dispatch Down: TSO Constraints Curtailments TSO Testing	Jan 94.0% 5.7% 0.1% 15.3% 84.6%	3,289 Feb 96.9% 2.9% 0.0% 28.6% 71.4%	Mar 93.8% 5.9% 0.0% 20.1% 79.9%	27,432 Qtr1 94.8% 4.9% 0.1% 19.3% 80.7%	Apr 80.2% 19.2% 0.0% 5.9% 94.1%	May 93.6% 6.1% 0.0% 37.0% 63.0%	Jun 88.7% 11.0% 0.0% 46.0% 54.0%	Qtr2 86.5% 13.0% 0.0% 17.9% 82.1%	Jul	Aug	- Sep		- Oct	- Nov	Dec	- Qtr4	73,859 2018 91.7% 7.9% 0.0% 18.4% 81.6%
High Freq / Min Gen Percentages Generation TSO Dispatch Down Other Reductions TSO Dispatch Down: TSO Constraints Curtailments TSO Testing Curtailments:	Jan 94.0% 5.7% 0.1% 15.3% 84.6%	3,289 Feb 96.9% 2.9% 0.0% 28.6% 71.4%	Mar 93.8% 5.9% 0.0% 20.1% 79.9%	27,432 Qtr1 94.8% 4.9% 0.1% 19.3% 80.7%	Apr 80.2% 19.2% 0.0% 5.9% 94.1%	May 93.6% 6.1% 0.0% 37.0% 63.0%	Jun 88.7% 11.0% 0.0% 46.0% 54.0%	Qtr2 86.5% 13.0% 0.0% 17.9% 82.1%	- lut	Aug	- Sep	- Qtr3	- Oct	- Nov	Dec	- Qtr4	73,859 2018 91.7% 7.9% 0.0% 18.4% 81.6%
ROCOF / Inertia High Freq / Min Gen Percentages Generation TSO Dispatch Down Other Reductions TSO Dispatch Down: TSO Constraints Curtailments TSO Testing Curtailments: SNSP Issue ROCOF / Inertia	Jan 94.0% 5.7% 0.1% 15.3% 84.6% 0.0%	3,289 Feb 96.9% 2.9% 0.0% 28.6% 71.4% 0.0%	Mar 93.8% 5.9% 0.0% 20.1% 79.9% 0.0%	27,432 Qtr1 94.8% 4.9% 0.1% 19.3% 80.7% 0.0%	Apr 80.2% 19.2% 0.0% 5.9% 94.1% 0.0%	May 93.6% 6.1% 0.0% 37.0% 63.0% 0.0%	Jun 88.7% 11.0% 0.0% 46.0% 54.0% 0.0%	Qtr2 86.5% 13.0% 0.0% 17.9% 82.1% 0.0%	Jul	- Aug	- Sep		- Oct	- Nov	Dec	- Qtr4	73,859

User Guide Available at: http://www.eirgridgroup.com/how-the-grid-works/renewables/

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