Northern Ireland Quarterly Solar Dispatch Down Report 2020

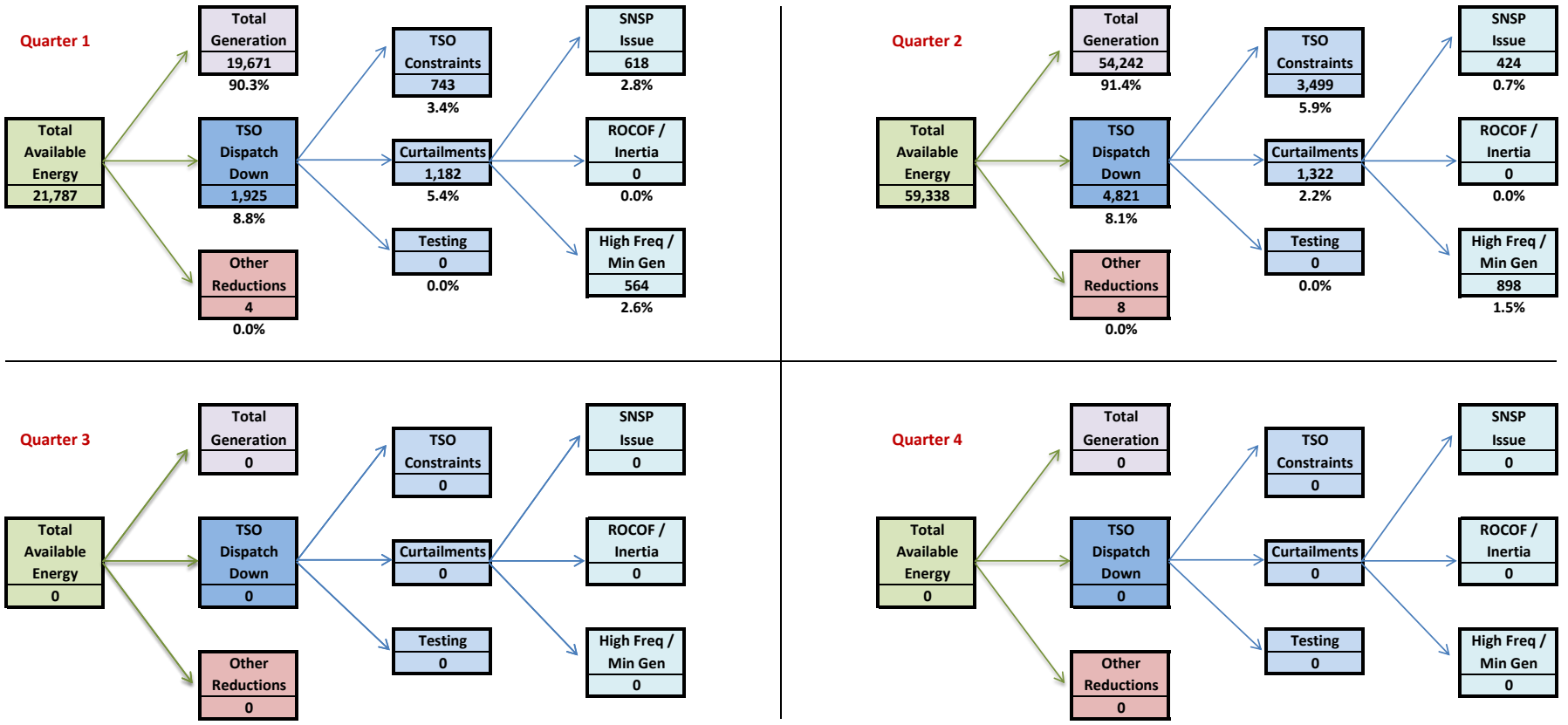
2020 Qtr2

Volumes (MWh)	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2020
Available Energy	2,821	6,274	12,692	21,787	20,373	21,620	17,346	59,338	-	-	-	-	-	-	-	-	81,126
Generation	2,754	5,304	11,614	19,671	18,298	20,078	15,866	54,242	-	-	-	-	-	-	-	-	73,913
TSO Dispatch Down	42	865	1,018	1,925	2,019	1,453	1,349	4,821	-	-	-	-	-	-	-	-	6,746
Other Reductions	0	4	1	4	1	-	7	8	-	-	-	-	-	-	-	-	12
TSO Dispatch Down:																	
TSO Constraints	7	300	435	743	1,310	1,048	1,141	3,499	-	-	-	-	-	-	-	-	4,242
Curtailments	35	564	583	1,182	709	405	208	1,322	-	-	-	-	-	-	-	-	2,504
TSO Testing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Curtailments:																	
SNSP Issue	33	343	242	618	225	175	23	424	-	-	-	-	-	-	-	-	1,042
ROCOF / Inertia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
High Freq / Min Gen	2	221	341	564	484	230	184	898	-	-	-	-	-	-	-	-	1,462

Percentages	Jan	Feb	Mar	Qtr1	Apr	May	Jun	Qtr2	Jul	Aug	Sep	Qtr3	Oct	Nov	Dec	Qtr4	2020
Generation	97.6%	84.5%	91.5%	90.3%	89.8%	92.9%	91.5%	91.4%									91.1%
TSO Dispatch Down	**1.5%**	**13.8%**	**8.0%**	**8.8%**	**9.9%**	**6.7%**	**7.8%**	**8.1%**									**8.3%**
Other Reductions	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									0.0%
TSO Dispatch Down:																	
TSO Constraints	0.3%	4.8%	3.4%	3.4%	6.4%	4.8%	6.6%	5.9%									5.2%
Curtailments	1.2%	9.0%	4.6%	5.4%	3.5%	1.9%	1.2%	2.2%									3.1%
TSO Testing	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									0.0%
Curtailments:																	
SNSP Issue	1.2%	5.5%	1.9%	2.8%	1.1%	0.8%	0.1%	0.7%									1.3%
ROCOF / Inertia	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									0.0%
High Freq / Min Gen	0.1%	3.5%	2.7%	2.6%	2.4%	1.1%	1.1%	1.5%									1.8%

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

Graphical Representation of the Breakdown of Solar Dispatch Down Energy Volumes (MWh) and Percentages (%)



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

Notes:

Other Reductions include DSO constraints, developer outage and developer testing.

Certain types of reductions are outside of the control of the TSO and are not logged.
Therefore, **Available Energy ≠ Generation + TSO Dispatch Down + Other Reductions.**

The format of this report has been modified from Qtr4 2019 to show the levels of constraints/curtailments in actual percentages instead of proportions.

Reason Codes Used for Curtailments/Constraints:

Transmission (TSO) Constraints: Used to resolve a local network issue.
TSO Testing: Used when wind/solar farm testing is carried out by the TSO, e.g. for commissioning and monitoring.
Curtailments:

- **High Frequency/Minimum Generation:** Used when attempting to alleviate an emergency high frequency event or in order to facilitate the minimum level of conventional generation on the system to satisfy reserve requirements, priority dispatch or to provide ramping capabilities.
- **SNSP Issue:** Used to reduce the System Non-Synchronous Penetration.
- **ROCOF/Inertia:** Used when the Rate of Change of Frequency (ROCOF) value for the loss of the largest single infeed is unacceptably high and wind/solar must be dispatched down as a result or when the system inertia is too low.

Other Reductions:

- **DSO/DNO Constraints:** Used when a dispatch is carried out as a result of a request from the Distribution System Operator or the Distribution Network Operator.
- **Developer Outage:** Used when a wind/solar farm must reduce output mainly to carry out software upgrades.
- **Developer Testing:** Used when testing is carried out by a wind/solar farm developer.

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