Dispatch Down Working Group Update - 1st June 2021



Renewableni WIND ENERGY RELAND

- Reducing Dispatch Down is priority policy issue for WEI
- Dispatch Down Working Group set up in Q1 2019
- MullanGrid complete analysis for the working group *≈MullanGrid*
- Members of the Working Group manage 4,444 MW of operating wind farms across the island, 93% of controllable wind generation



	2018	2019	2020	2021 (Jan – Mar)
Curtailment (%)	4.2%	4.0%	6.4%	4.2%
Constraints (%)	2.5%	4.3%	6.7%	5.9%
Total	6.7%	8.3%	13.1%	10.1%
Dispatched Down Energy (GWh)	705	1,015	1,874	421
Dispatched Down Energy as % of Electricity Sector CO ₂ Emissions	1.9%	2.8%	5.1%	4.8%

- Information presented in all-island
- Constraint now higher than curtailment
- Not all lost renewable energy from outages captured in EirGrid/SONI's dispatch reports

7.00% 6.00% All-Island Wind Curtailment (%) 5.00% 4.00% 3.00% 2.00% 1.00% 0.00% 2012 2013 2014 2015 2016 2017 2018 2019 2020 Q1 2021 ROCOF/Inertia Curtailment SNSP Curtailment Min Gen Curtailment





Min Gen Levels

- Very good progress being made in increasing SNSP levels
- Need for greater focus on reducing total min gen levels



EWIC & Moyle Avg MW during curtailment events

EWIC Avg Net (MW) Moyle Avg Net (MW)

		2014	2015	2016	2017	2018	2019	2020	2021
Curtailment Events(nr.)		137	119	87	103	112	135	166	42
Curtailment Events	EWIC Avg Net (MW)	-190	1	64	271	190	311	302	207
	EWIC Avg Net (%)	-36%	0%	12%	51%	36%	59%	57%	39%
	Moyle Avg Net (MW)	-99	46	127	186	49	72	45	181
	Moyle Avg Net (%)	-40%	18%	42%	62%	16%	19%	11%	45%
All Periods	EWIC Absolute Avg (Day) (MW)	-376	-213	-14	18	-39	40	96	-21
	EWIC Absolute Avg (Night) (MW)	-78	24	15	171	154	83	140	102
	Moyle Absolute Avg (Day) (MW)	-154	-61	11	-41	-145	-98	-65	-45
	Moyle Absolute Avg (Night) (MW)	-50	92	59	76	-16	-67	30	20

• Scope for greater use of interconnectors to reduce curtailment







- Need for increased build out of new transmission infrastructure
- Need to reduce the time periods of outages



Moyle Interconnector Average MW during NI Constraints only

• Concerns at Moyle on average importing during NI constraints events