Dispatch Down Working Group Update – 6th September 2022



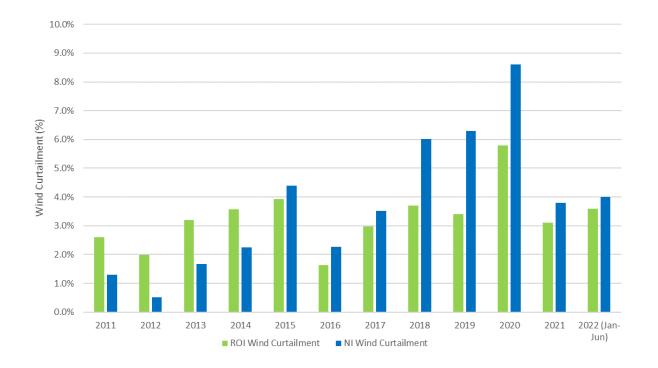
Dispatch Down Work Group

- 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 4,500 MW of operating wind farms across the island, ~90% of controllable wind generation

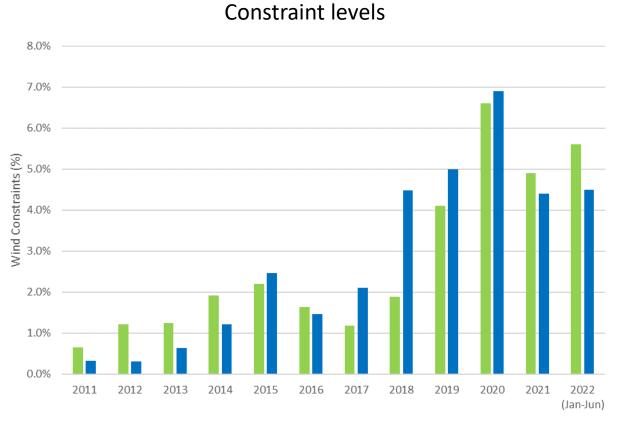




Curtailment levels







ROI Wind Constraints

Parameter	2018	2019	2020	2021	Jan-Jun 2022
Curtailment (%)	4.2%	4.0%	6.4%	3.2%	3.7%
Constraints (%)	2.5%	4.3%	6.7%	4.8%	5.3%
Total Dispatch Down (%)	6.7%	8.3%	13.1%	8.0%	9.0%
Dispatched Down Energy (GWh)	705	1015	1874	912	715
Lost Revenue (€)	€49m	€77m	€129m	€81m	€57m
Dispatched Down Energy equivalent to CO2 emissions from thermal generators (Mt CO2)*	0.256	0.370	0.688	0.345	0.385
Estimated Lost Wind Energy as Percentage of 2022 YTD All-Island Electricity Demand**	1.9%	2.8%	5.2%	2.4%	3.6%

* Estimates based on SEAI data: monthly energy balances and emissions factors published on their website.

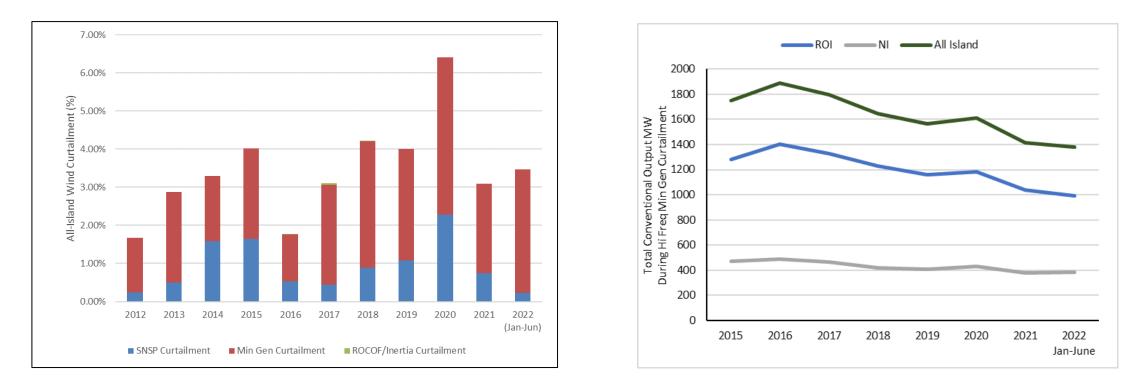
** = Based on 2022 all-island demand figure obtained from EirGrid's "System-and-Renewable-Data-Summary-Report" spreadsheet on their website

- All-Island information presented above
- Constraint higher than curtailment since 2019
- Not all lost renewable energy from outages captured in EirGrid/SONI's dispatch reports



Drivers of Wind Curtailment

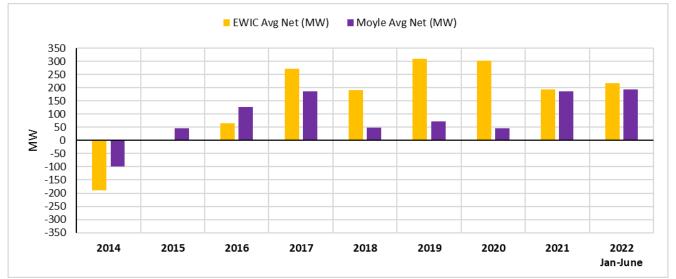
Min Gen Levels



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

Renewableni WIND ENERGY IRELAND

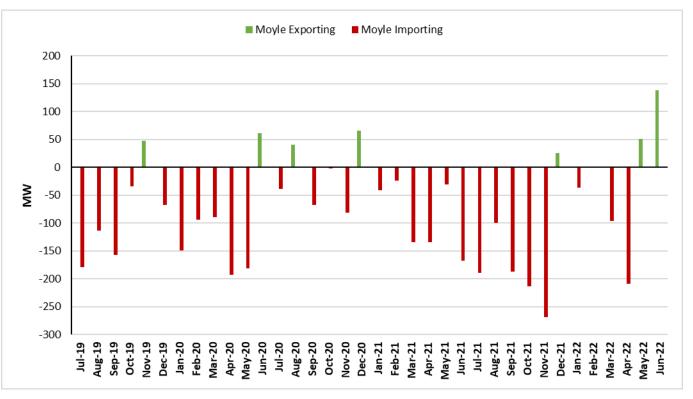
EWIC & Moyle Avg MW During Curtailment Events



		2014	2015	2016	2017	2018	2019	2020	2021	Jan-June 2022
Curtailment Event (nr.)	EWIC (ROI)	137	119	87	103	112	135	166	178	84
Curtailment Event	EWIC Avg Net (MW)	-190	1	64	271	190	311	302	193	217
	EWIC Avg Net (%)	-36%	0%	12%	51%	36%	59%	57%	36%	41%
	Moyle Avg Net (MW)	-99	46	127	186	49	72	45	186	193
	Moyle Avg Net (%)	-40%	18%	42%	62%	16%	19%	11%	46%	48%
	EWIC & Moyle Avg Net (MW)	-289	47	191	457	239	383	348	379	410
	EWIC & Moyle Avg Net (%)	-37%	6%	23%	55%	29%	42%	37%	41%	44%
All Periods	EWIC Absolute Day (MW)	-376	-213	-14	18	-39	40	96	-92	39
	EWIC Absolute Night (MW)	-78	24	15	171	154	83	140	14	102
	Moyle Absolute Day (MW)	-154	-61	11	-41	-145	-98	-65	-131	-12
	Moyle Absolute Night (MW)	-50	92	59	76	-16	-67	30	-35	140

• Scope for greater use of interconnectors to reduce curtailment

Moyle Interconnector Average MW During NI North-South Constraint Events



• Concerns at Moyle generally importing on average during NI constraints events, although very recent trends are more encouraging