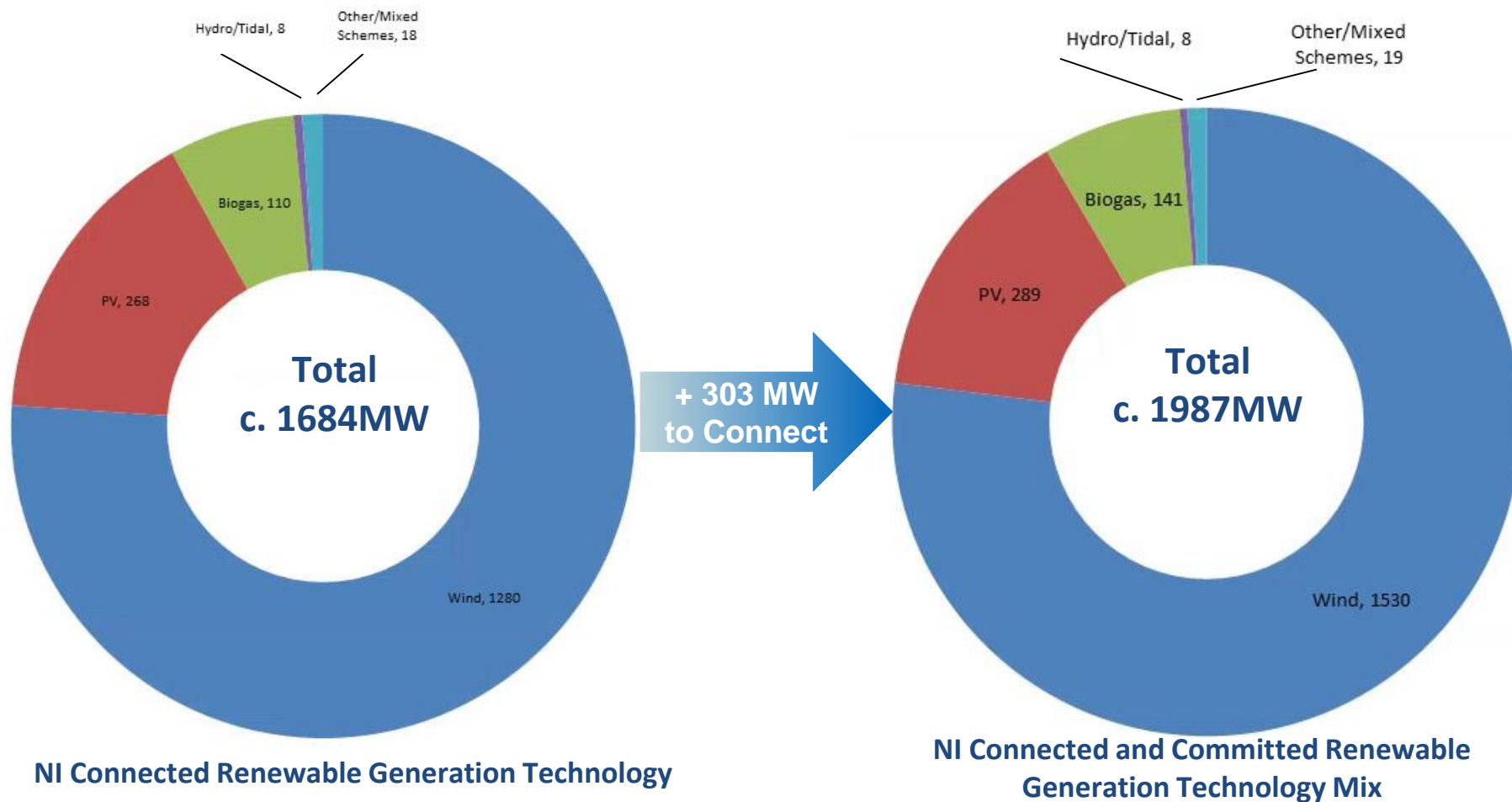


# RENEWABLE STATUS UPDATE

RGLG 1<sup>st</sup> September 2020

# Renewable Generation Status – Q2 2020



# Transmission Connection Applications

**RGLG**

**1<sup>st</sup> September 2020**



Generation Applications			
Unit	Connection Level	User's Name	Maximum Export Capacity (MW)
Curraghmulkin Wind Farm	Transmission	Dooish Wind Farm Ltd	42
EP Kilroot GT5 and GT6 OCGTs	Transmission	EP Kilroot Limited	405.9
Aught Wind Farm	Transmission	Aught Wind Farm Limited	37.2
Pigeon Top Wind Farm	Transmission	Pigeon Top Wind Farm Limited	51.6
EP Kilroot GT7	Transmission	EP Kilroot Limited	299
EP Kilroot GT6 OCGT (Increased MEC)	Transmission	EP Kilroot Limited	44.1
EP Kilroot GT8 OCGT	Transmission	EP Kilroot Limited	299
EP Kilroot GT9 OCGT	Transmission	EP Kilroot Limited	450
Belfast Power CCGT	Transmission	EP Kilroot Limited	468
Storage Applications			
Unit	Connection Level	User's Name	Maximum Export / Import Capacity (MW)
Drumkee Battery Storage	Transmission	Drumkee Energy Limited	50 / 50
Mullavilly Battery Storage	Transmission	Mullavilly Energy Limited	50 / 50
Castlereagh Battery Storage	Transmission	Energia Renewables Company 1 Limited	50 / 50
Kells Battery Storage	Transmission	Kells BES Ltd	50 / 50

# Consultation on Connecting Further Generation in Northern Ireland

RGLG 1<sup>st</sup> September 2020

# Interim Connections Process

## Minded to Decision

- NIE Networks are minded to progress issuing distribution generation offers with non-firm market access for generators 5MW and above
- Go-live in autumn 2020 (based on dependencies)
- Interim connections process until enduring process is developed with go-live to align with update NI RES-E targets

# Interim Connections Process

## Risks

- Influx of applications
- NIE Networks cannot meet 3 month licence standard to offer terms
- Speculative applications leading to unnecessary workload – impact on other applications
- Dispute of new process
- Compliance with CEP



# Interim Connections Process

## Dependencies

- UR support for licence standard derogation essential to maintain compliance
  - Engagement with UR ongoing
- Change of connection application process to include acceptance of longer timelines for offer issuance
- Update to NIE Networks' Statement of Connection Charges – UR approval required
- Industry co-operation



# Interim Connections Process

## Next Steps

- Continue to engage with UR



- Enact changes to application and offer process and documents
- Drafting of decision paper and Statement of Connection Charges

# Interim Connections Process

## Key Messages

- NIE Networks will not introduce a new process that will result in non-compliance
- Interim process applies to generators 5MW and above
- Need to minimise speculative applications
- Milestones will be enforced
- Proposed new process is an interim process
- Enduring process will be developed in parallel

# Next Meeting

- To align with outcome of UR decision re. licence standard derogation
- Update on dependencies
- Update on next steps

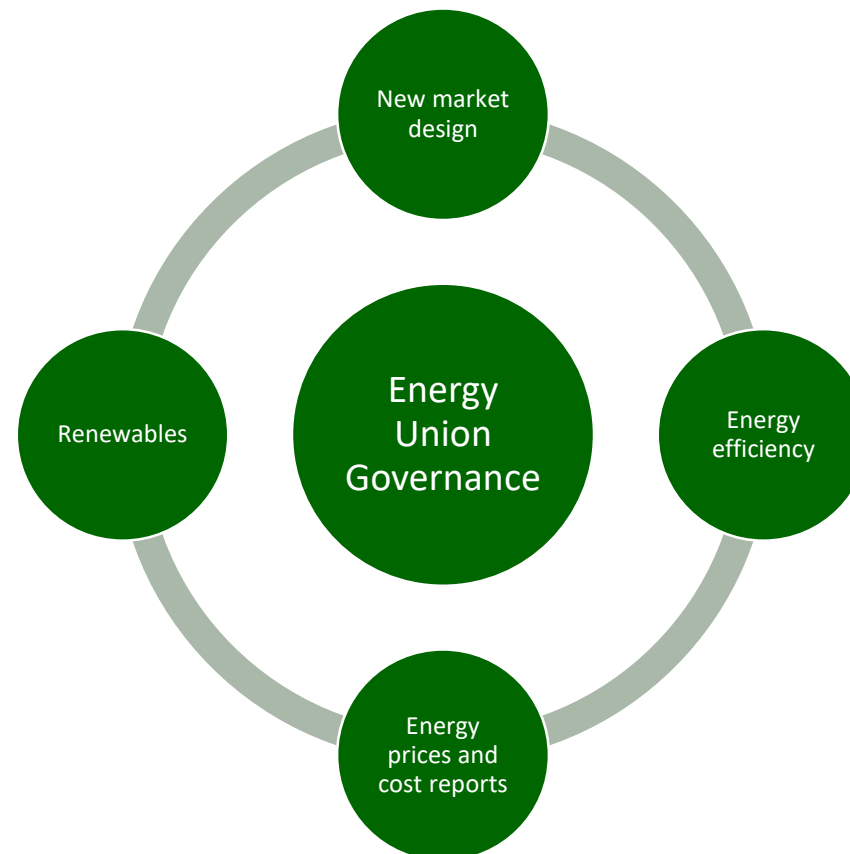


# The Clean Energy Package



# Clean Energy Package overview

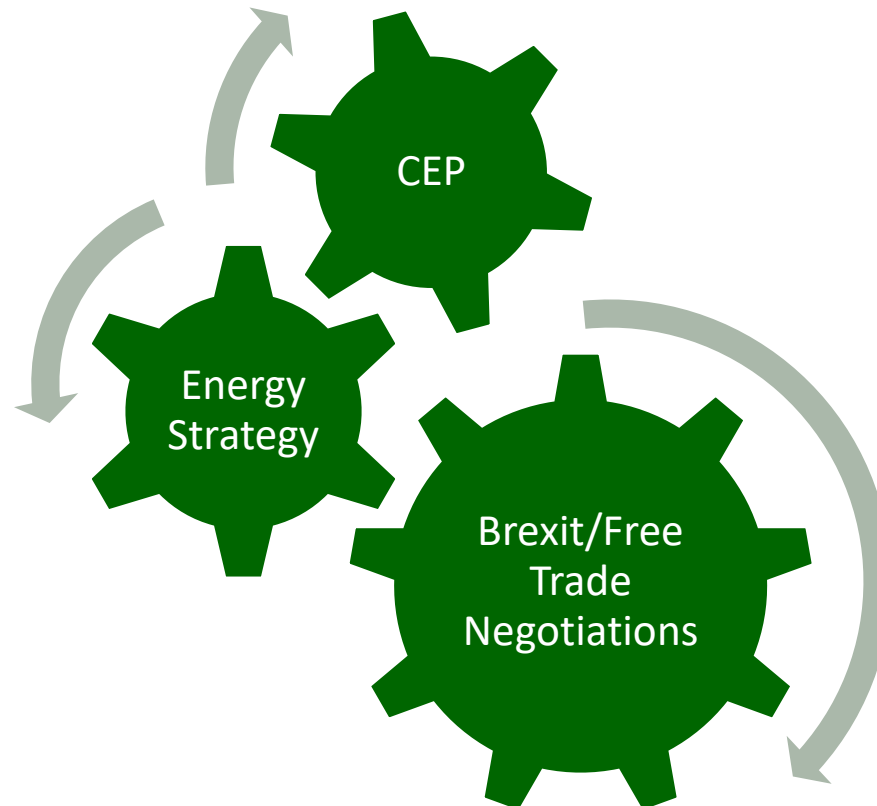
The CEP comprises 8 pieces of legalisation and more than 1000 pages of text aimed at promoting, decentralisation, decarbonisation and digitalisation.





# Energy Policy Context

There are a number of inter-related elements influencing energy policy in Northern Ireland. Changes in any element can impact the other parts significantly





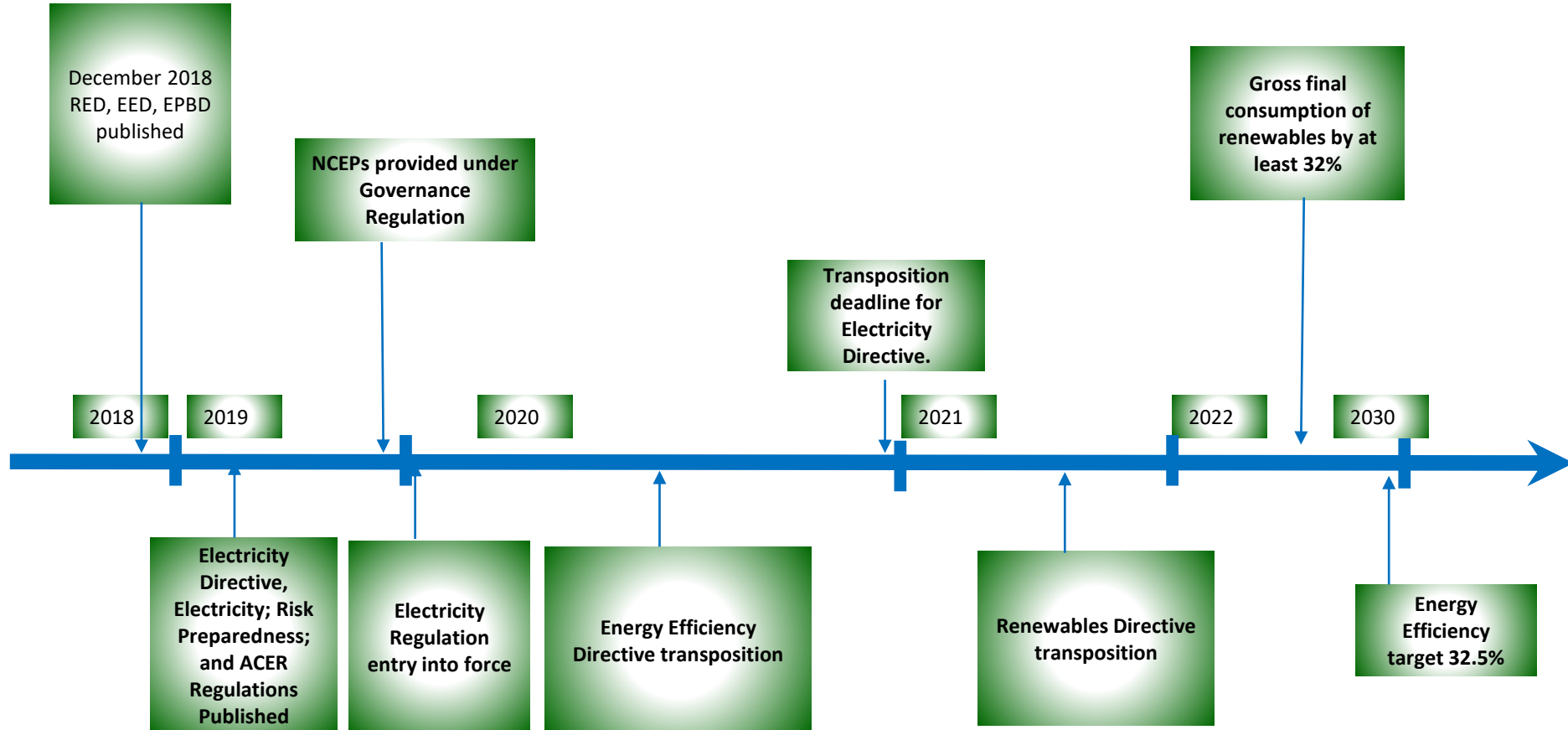
# Legislative timelines

	European Commission Proposal	EU Inter-institutional Negotiations	European Parliament Adoption	Council Adoption	Official Journal Publication
<b>Energy Performance in Buildings Directive</b>	<u>30/11/2016</u>	Political Agreement	17/04/2018	14/05/2018	19/06/2018 Directive (EU) 2018/844
<b>Renewable Energy Directive</b>	<u>30/11/2016</u>	Political Agreement	13/11/2018	04/12/2018	21/12/2018 Directive (EU) 2019/2001
<b>Energy Efficiency Directive</b>	<u>30/11/2016</u>	Political Agreement	13/11/2018	04/12/2018	21/12/2018 Directive (EU) 2019/2002
<b>Governance Regulation</b>	<u>30/11/2016</u>	Political Agreement	13/11/2018	04/12/2018	21/12/2018 Directive (EU) 2019/2002
<b>Electricity Regulation</b>	<u>30/11/2016</u>	Political Agreement	26/03/2019	22/05/2019	14/06/2019 Directive (EU) 2019/943
<b>Electricity Directive</b>	<u>30/11/2016</u>	Political Agreement	26/03/2019	22/05/2019	14/06/2019 Directive (EU) 2019/944
<b>Risk Preparedness Regulation</b>	<u>30/11/2016</u>	Political Agreement	26/03/2019	22/05/2019	14/06/2019 Directive (EU) 2019/941
<b>ACER Regulation</b>	<u>30/11/2016</u>	Political Agreement	26/03/2019	22/05/2019	14/06/2019 Directive (EU) 2019/942





# High-Level CEP implementation timetable





## Progress on implementation

- SEMC have issued an information paper on implementation of Articles under the Electricity Regulation
- DfE are focusing on the Electricity Regulation and Directives first in particular those elements affecting the SEM
- DfE consultation on transposition of first round of elements from the Electricity Directive will be issued in September
- It is proposed that the UR will be given powers to modify licences where appropriate
- Those elements requiring new policy from DfE will form part of the Energy Strategy



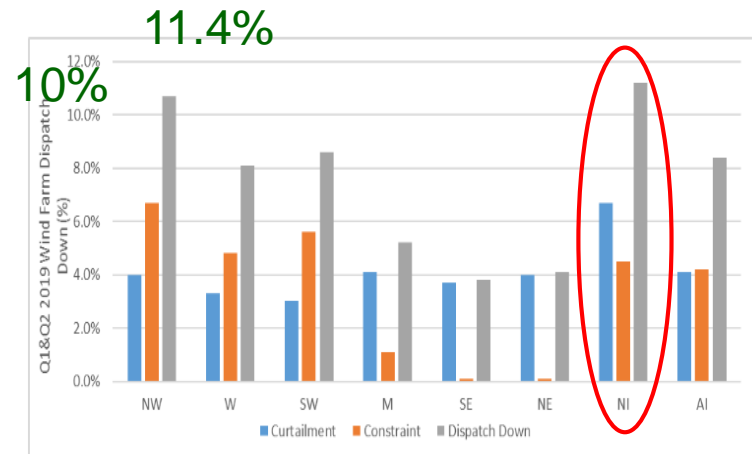
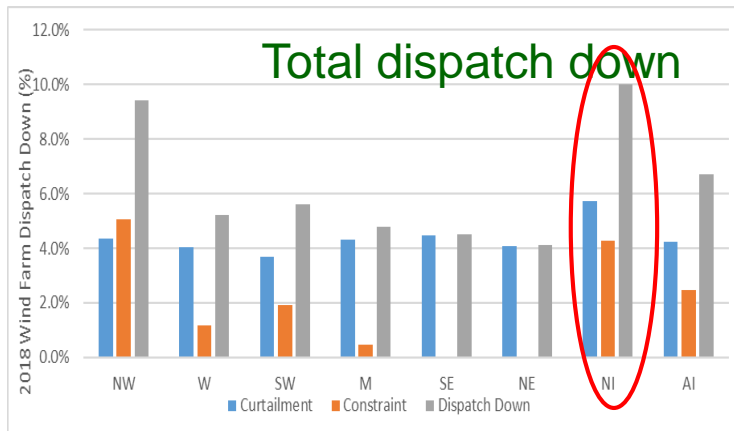
Thank you

# Dispatch Down Update

RGLG - 1<sup>st</sup> September 2020

# Northern Ireland Dispatch Down in Numbers

	<u>2018</u>	<u>2019</u>
Dispatch Down Energy GWh	243	291 GWh
% of Total Energy/Emissions	2.1%	2.9%
Lost Revenue	€20m	€25m
Curtailment %	5.7%	6.4%
Constraint %	4.3%	5.0%
		11.4%



# Northern Ireland Dispatch Down in Numbers

Q1/Q2 2020

Dispatch Down Energy  
294 GWh

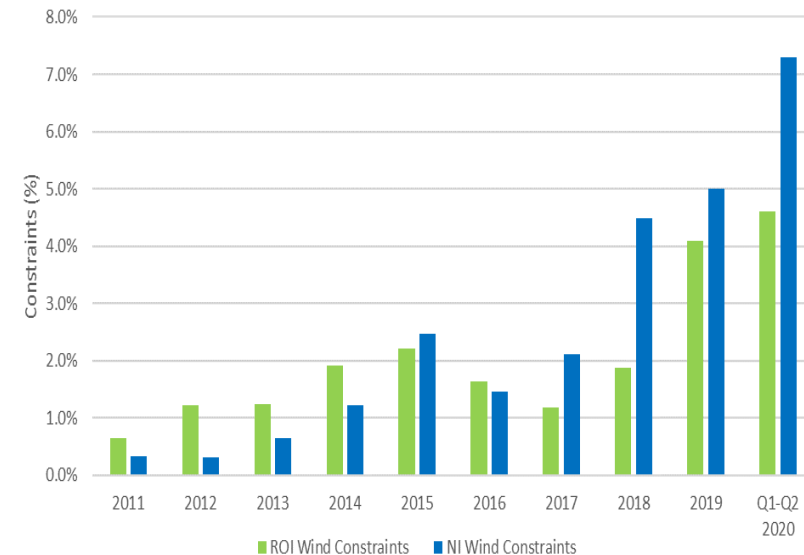
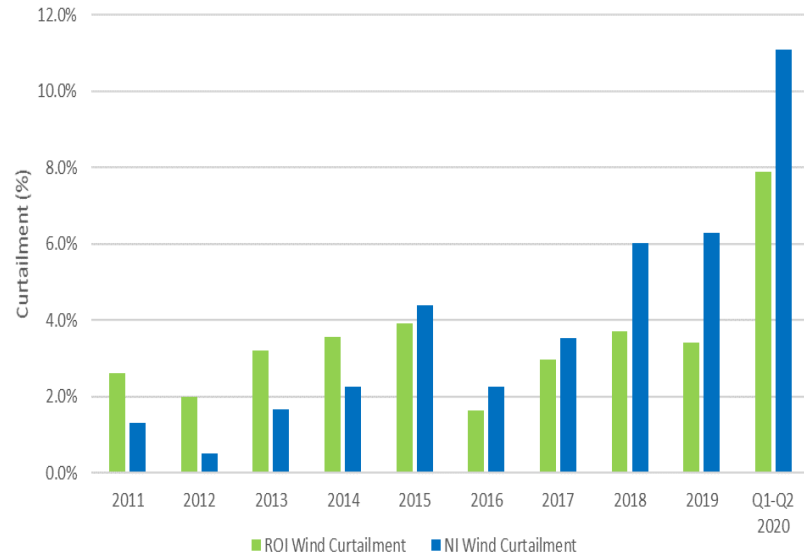
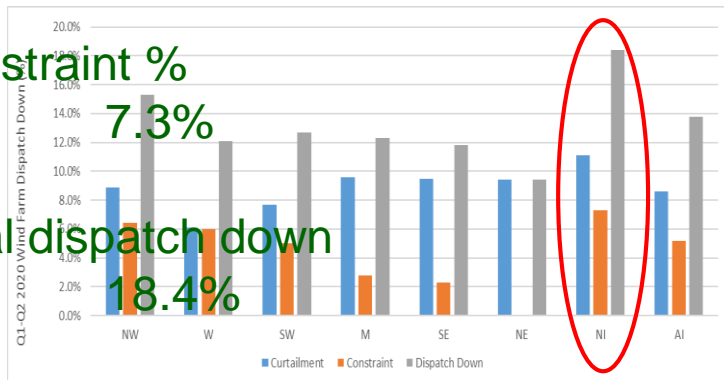
% of Total Energy/Emissions  
5.8%

Lost Revenue  
€19.5m

Curtailment %  
11.1%

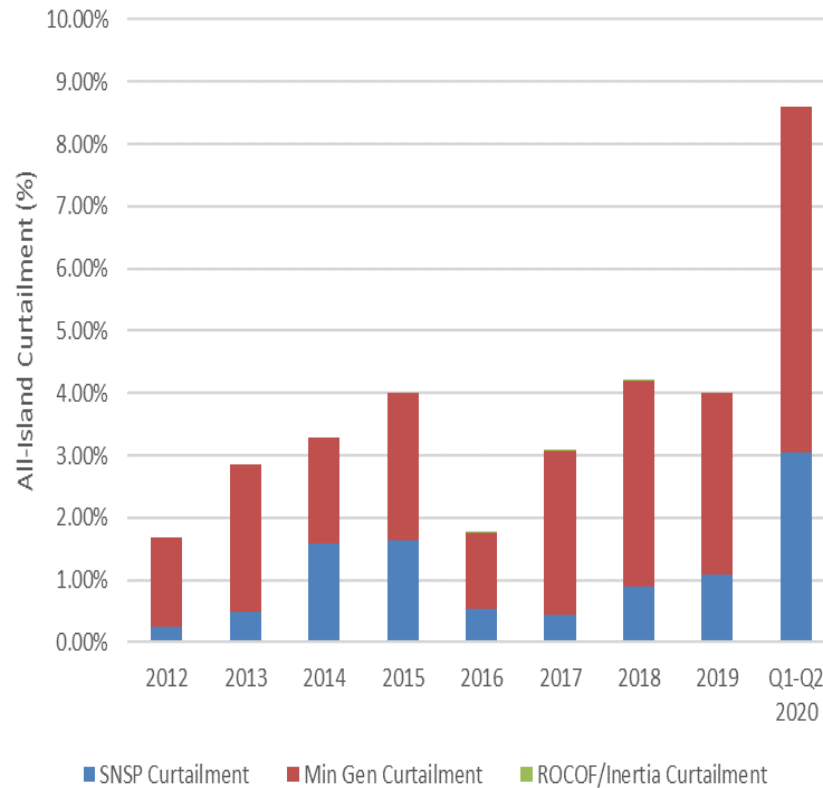
Constraint %  
7.3%

Total dispatch down  
18.4%



# Northern Ireland Curtailment

## Drivers of Wind Curtailment





# Northern Ireland Curtailment

## Minimum Generation Levels During Curtailment Events

Generator			Fuel Type	MEC (MW)	Declared Min Gen Level (MW)	Avg Generation Level During Curtailment Events (MW)							
						Q2 2020	Q1 2020	2019	2018	2017	2016	2015	2012-14
Republic of Ireland	Must Run Plants	Dublin Bay <sup>1</sup>	Gas/DO	415	110	147	150	162	228	252	257	248	271
		Huntstown 2 <sup>2</sup>	Gas/DO	412	121	143	127	147	140	151	158	176	181
		Huntstown 1 <sup>3</sup>	Gas/DO	352	120	174	154	157	141	140	191	195	181
		Poolbeg A <sup>4</sup>	Gas/DO	230	120	125	120	117	124	123	129	236	242
		Poolbeg B <sup>4</sup>	Gas/DO	230	120	126	129	117	117	94	121		
		Tynagh	Gas/DO	404	194	214	203	206	210	215	224	199	198
		Moneypoint 1 <sup>5</sup>	Coal/HFO	285	75	83	84	102	119	115	121	117	121
		Moneypoint 2 <sup>5</sup>	Coal/HFO	285	99	0	0	0	112	116	121	118	120
		Moneypoint 3 <sup>5</sup>	Coal/HFO	285	75	0	0	107	117	121	127	120	115
		Aghada 1	Gas	258	36	0	0	0	38	0	0	0	0
		Aghada 2 <sup>6</sup>	Gas/DO	432	130	154	148	146	197	216	207	218	206
		Tarbert 3	HFO	241	35	0	36	35	35	0	0	35	0
		Tarbert 4	HFO	241	35	38	36	36	38	0	0	0	0
		Whitegate <sup>7</sup>	Gas/DO	445	160	193	197	185	192	202	225	187	188
		Great Island <sup>8</sup>	Gas/DO	464	165	185	188	175	193	202	255	257	0
		Sealrock 1	Gas/DO	80	40	62	69	65	70	71	76	74	76
		Sealrock 2	Gas/DO	81	40	62	68	65	70	73	78	75	76
	Priority Dispatch Plants	Edenderry	Peat/Biomass	118	41	51	62	62	65	62	74	75	85
		Lough Ree <sup>9</sup>	Peat	91	32	44	60	58	62	74	76	79	75
		West Offaly <sup>10</sup>	Peat	137	48	58	74	75	86	88	96	101	101
	Average Total ROI Min Gen During Curtailment Events (MW)					1198	1222	1158	1227	1329	1403	1280	1329
Northern Ireland	Must Run Plants	Ballylumford B10	Gas/HFO	101	63	78	69	71	66	63	62	64	65
		Ballylumford B31	Gas/HFO	247	113	148	155	118	114	121	106	121	110
		Ballylumford B32	Gas/HFO	247	113	143	124	120	127	122	127	0	83
		Kilroot K1	HFO/Coal	255	93	96	94	104	113	113	107	117	122
		Kilroot K2	HFO/Coal	255	93	96	94	104	113	113	107	117	122

Plants Running >20 MW Above Declared Min Gen

Review of operation of must run plants during curtailment events indicates that some of the plants are consistently operating at levels well above their declared minimum generation levels over the past 8 years

# Northern Ireland Curtailment

## Interconnector Activity During Wind Curtailment Events

		2014	2015	2016	2017	2018	2019	Q1 2020	Q2 2020	2014 to Q2 2020
Curtailment Events	Curtailment Events(nr.)	137	119	87	103	112	135	63	25	781
	EWIC Avg Net (MW)	190	-1	-64	-271	-190	-311	-326	-287	-157
	EWIC Avg Net (%)	36%	0%	-12%	-51%	-36%	-59%	-62%	-54%	-30%
	Moyle Avg Net (MW)	99	-46	-127	-186	-49	-72	-27	15	-49
	Moyle Avg Net (%)	40%	-18%	-42%	-62%	-16%	-19%	-7%	4%	-15%

### Notes:

Moyle's permitted export capacity has varied from 250MW in 2014 and 2015, increasing to 300MW between 2016 and Q1 2019, and increasing to 380MW from Q2 2019 onwards

Positive figures represents imports, negative figures represent exports

EWIC Out of Service: 2014 = 43 days, 2015 = 14 days, 2016 = 109 days, 2017 = 53 days, 2018 = 49 days, 2019 = 12 days, 2020 = 6 days

Moyle Out of Service: 2014 = 65 days, 2015 = 2 days, 2016 = 46 days, 2019 = 9 days

# Summary

- Northern Ireland dispatch down at very high levels, so far at 18.4% in 2020. Impacts on CO<sub>2</sub> emissions, meeting RES-E targets and renewable project revenues
- Continued support for DS3
  - Increasing SNSP is important but more focused required on reducing min gen levels
- Need to look at how exports on Moyle can be maximised
- High constraints highlights the priority for the delivery of the North-South Interconnector
- Need also the delivery of the ATRs for existing operational windfarms
- Need for greater reporting and analysis on dispatch down – *“If you can’t measure it, you can’t improve it”*