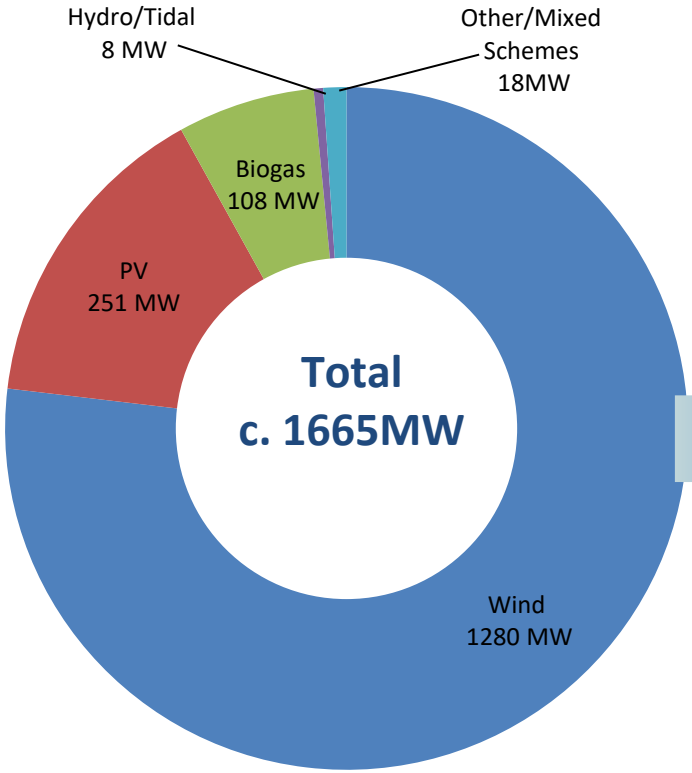
RENEWABLE STATUS UPDATE

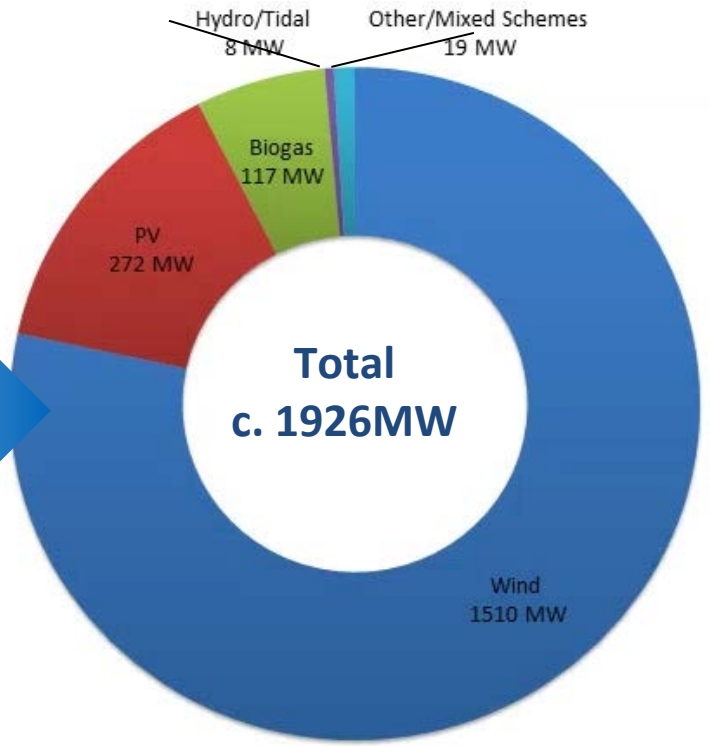
RGLG 3rd March 2020

Renewable Generation Status – Q4 2019



NI Connected Renewable Generation Technology

+ 261 MW to Connect



NI Connected and Committed Renewable Generation Technology Mix

Transmission Connection Applications

RGLG

3rd March 2020

Generation Applications			
Unit	**Connection Level**	**User's Name**	**Maximum Export Capacity (MW)**
Curraghmulkin Wind Farm	Transmission	Dooish Wind Farm Ltd	42
Belfast Power Limited	Transmission	Belfast Power Limited	489.6
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 Reciprocating Engine Array	Transmission	EP Kilroot Limited	192
Demand Applications			
Unit	**Connection Level**	**User's Name**	**Maximum Import Capacity (MW)**
Atlantic Hub	Transmission	Atlantic Hub Property Limited	100
Storage Applications			
Unit	**Connection Level**	**User's Name**	**Maximum Export / Import Capacity (MW)**
Ballylumford Battery Energy Storage Array	Transmission	EP Ballylumford Limited	100 / 100
Drumkee Battery Storage	Transmission	Drumkee Energy Limited	50 / 50
Mullavilly Battery Storage	Transmission	Mullavilly Energy Limited	50 / 50
Kilroot Battery Energy Storage Array	Transmission	EP Kilroot Power 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 3rd March 2020

Non-Firm Consultation Update

- Consultation was issued on the 20 December 2019
- Industry workshop held at Park Avenue Hotel, Belfast on 29 January 2020
- Consultation closed on the 28 February 2020
- 4 responses received from Industry
- Responses received indicated approach 2A with a 400MW limit attached to it
- NIE Networks and SONI will need to determine if low level of responses is adequate to change connection application and offer process

Northern Ireland Electricity Networks

SONI

Non-Firm Consultation Update

- Legal review is required to determine the implications associated with a MW limit
- The timeline suggested in the consultation paper will be affected by both the low level of responses and the MW limit approach.

Northern Ireland Electricity Networks

SONI

Update on TDPNI

RGLG - 3 March

Tomorrow Energy Scenarios Update

RGLG

3rd March 2020

Overview

- Consultation closed November 6th 2019
- Responses reviewed
- Feedback used to update NI Scenarios
  - Support for Addressing Climate Change (70% RES)
  - Modest Progress (60% RES) retained
  - Accelerated Climate Change (80% RES) added
  - Least Effort scenario (50% RES) removed
  - LCT uptake rates reviewed and updated in partnership with NIE Networks

Updated Scenarios

	Modest Progress	Addressing Climate Change	Accelerated Ambition
Decarbonisation	**Medium**	**High**	**Very High**
Toward a zero-carbon electricity system by 2050	Progress made	Yes [2045]	Yes [2040]
Percentage RES-E in 2030	60%	70%	80%
Coal generation phase-out	Timely	Timely	Timely
Greenhouse Gas emissions reduction by 2030	36%	45%	52%
Carbon capture and storage	No	Yes [2045]	Yes [2040]
Energy efficiency gains	Medium	High	Very High
Electrification of heat and transport	Medium	High	High
Decentralisation	**Low**	**High**	**Very High**
Distribution-connected generation	Low	High	Very High
Self-consumption	Low	High	Very High
Enablers	**Medium**	**High**	**High**
Demand-side flexibility	Medium	High	High
Smart Meter Uptake	Medium	High	High

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Next steps

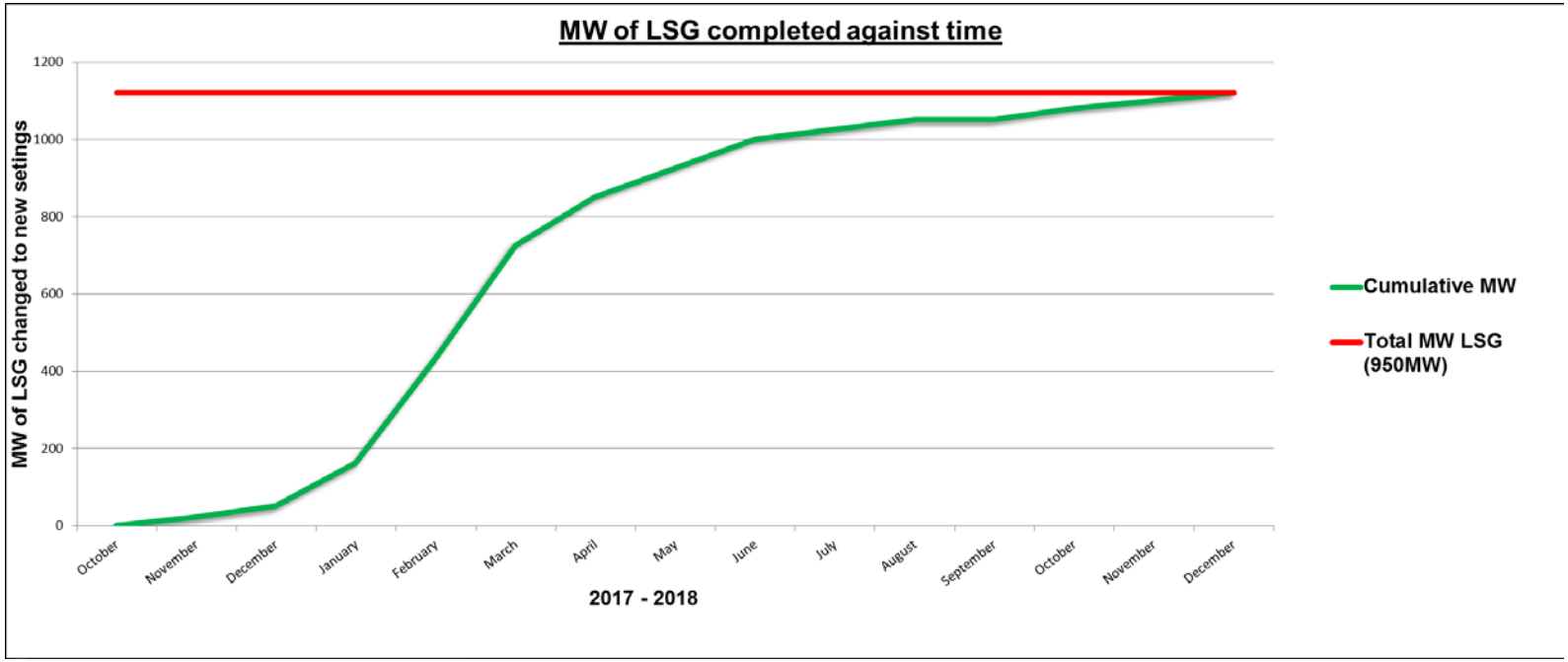
- Final Tomorrow’s Energy Scenarios May 2020
- TES System Needs Report

ROCOF IMPLEMENTATION PROGRAMME

Update 03/03/2020

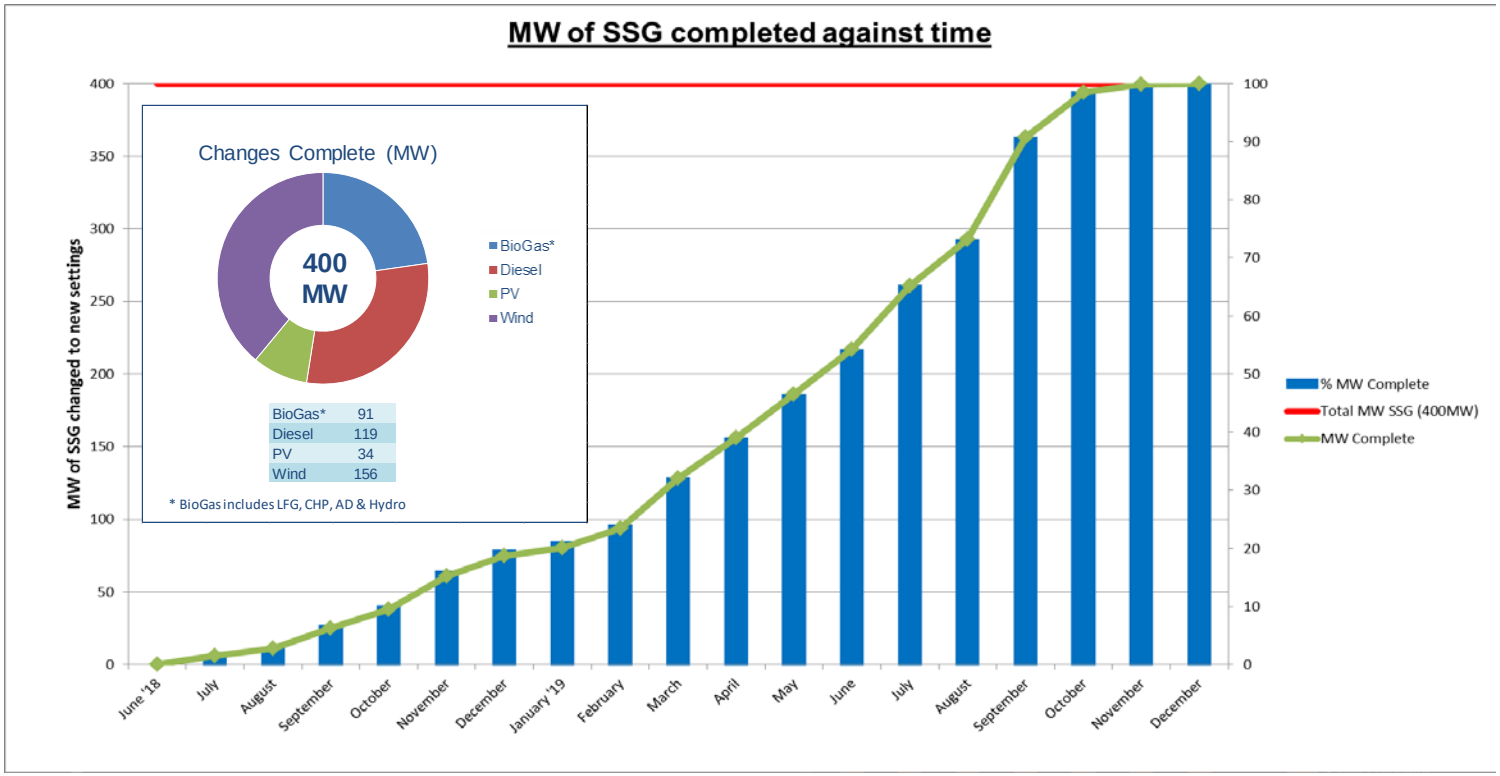
LSG RoCoF – Complete

- All LSG sites >5MW have been changed to new RoCoF setting
- 1120 MW changed to 1Hz/s RoCoF setting (including new LSG's connected during the programme)



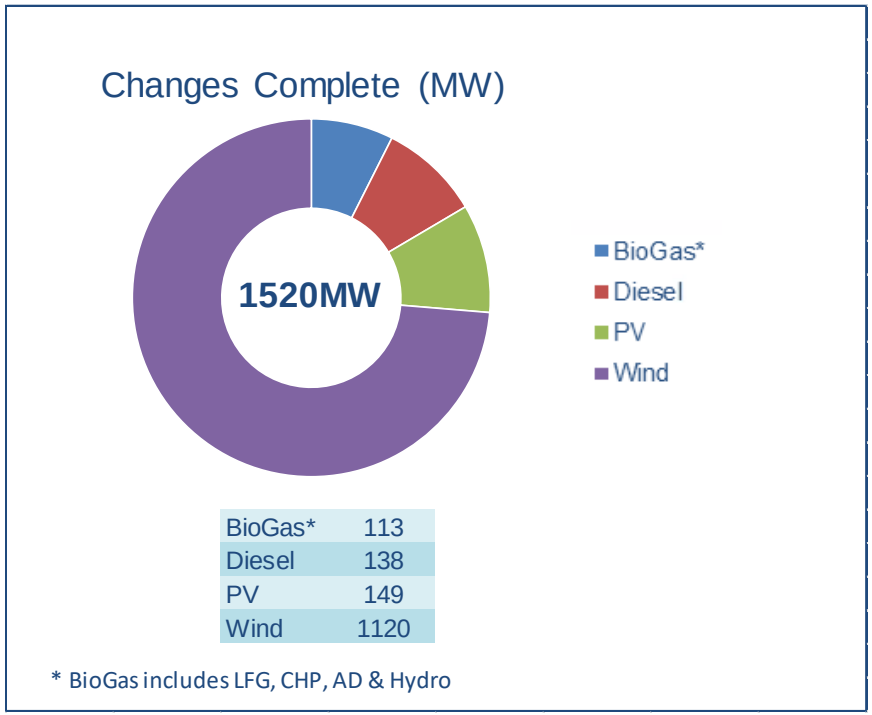
SSG RoCoF – Complete

- 1345 SSG's have been changed to new RoCoF setting
- 400 MW SSG now changed to 1Hz/s RoCoF setting



Total RoCoF (LSG & SSG) – Complete

- 1413 Generators have been changed to new RoCoF setting
- 1520 MW Generation now changed to 1Hz/s RoCoF setting



BioGas*	113
Diesel	138
PV	149
Wind	1120

* BioGas includes LFG, CHP, AD & Hydro