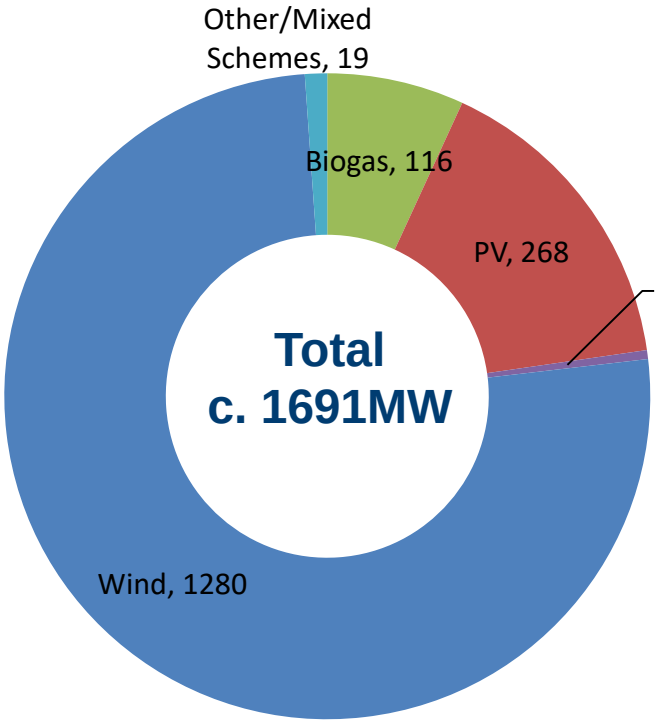
Renewable Grid Liaison Group (RGLG)

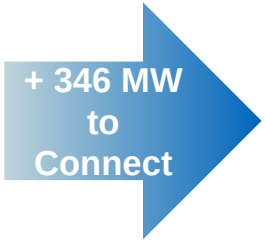
1st June 2021

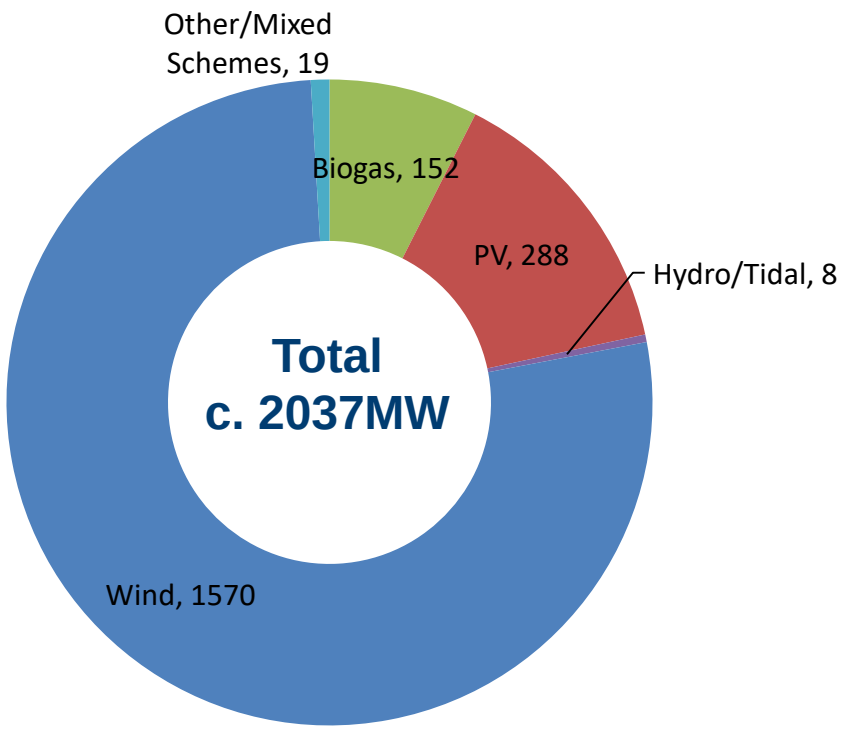
RENEWABLE STATUS UPDATE

RGLG 1st June 2021

Renewable Generation Status – Q1 2021







NI Connected Renewable Generation Technology Mix

NI Connected and Committed Renewable Generation Technology Mix

Transmission Connection Applications

RGLG

1st June 2021

SONI

Generation Applications			
Unit	**Connection Level**	**User's Name**	**Maximum Export Capacity (MW)**
Curraghmulkin Wind Farm	Transmission	Dooish Wind Farm Ltd	42
EP Kilroot GT6 OCGT	Transmission	EP Kilroot Limited	350
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 GT7 OCGT (Increased MEC)	Transmission	EP Kilroot Limited	44.1
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
Large Demand Applications			
Unit	**Connection Level**	**User's Name**	**Maximum Export / Import Capacity (MW)**
Atlantic Hub Data Centre	Transmission	Atlantic Hub Property Limited	80

Connections Innovation Working Group Update

RGLG Tuesday 1st June 2021

Northern Ireland Electricity Networks

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Update

- **Decision Paper for NIE Networks Providing Distribution Generation >5MW Offers with Non Firm Market Access published February 2021**
- **NIE Networks has submitted proposed changed to SOCC to the Utility Regulator for approval**
- **Non-Firm Offer Process >5MW will go-live one month after the SOCC is approved by the Utility Regulator**
- **Next CIWG meeting scheduled for Thursday 10th June 2021**
  - **Update on NIE Networks' Networks for Net Zero and SONI's Shaping Our Electricity Future**
  - **Discussion of DfE Energy Strategy Consultation**
  - **Key Connections Messages**
  - **Enduring Connections Policy and SSG – uncontrollable generation limit**

Northern Ireland Electricity Networks

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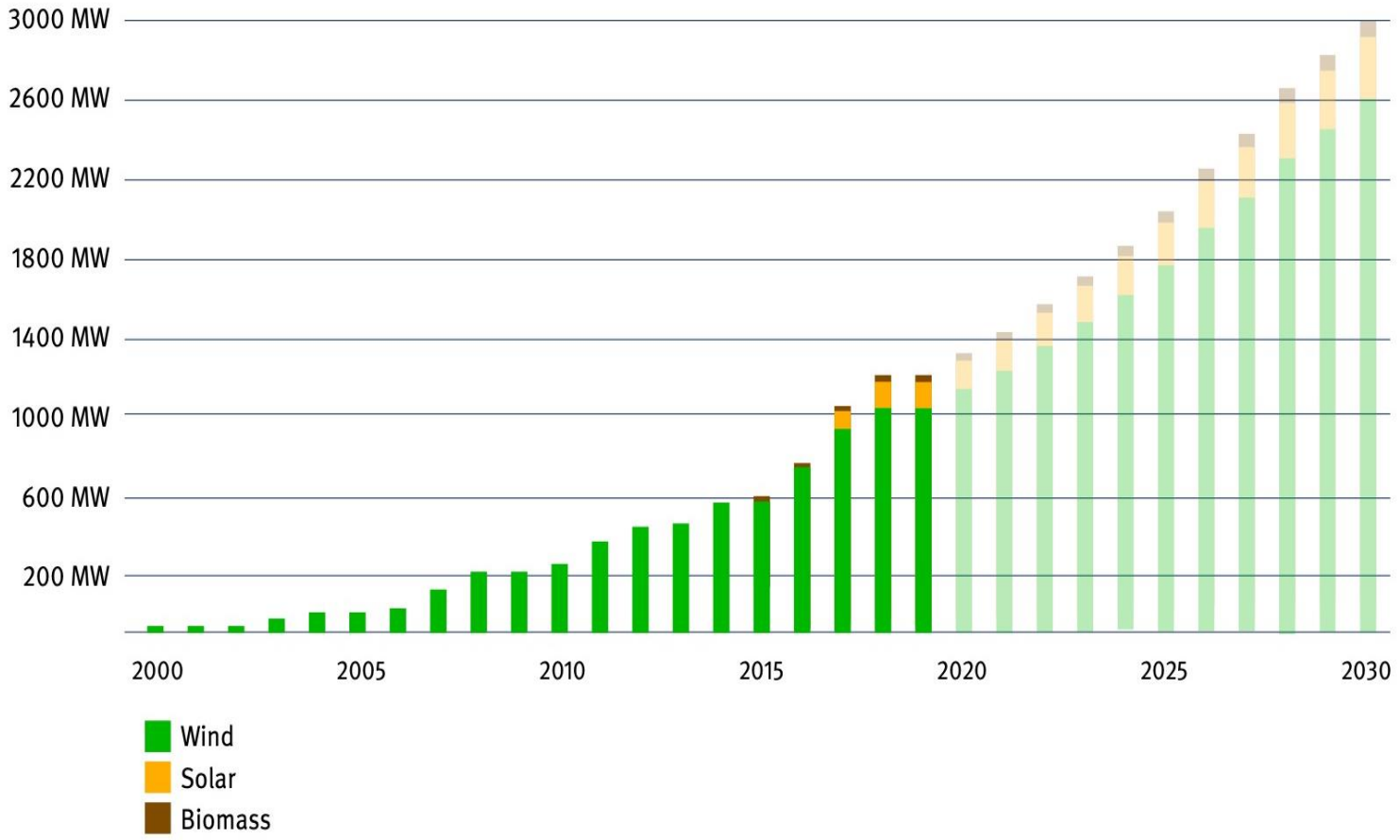
Network Development Update

RGLG – 1 Jun 2021

Shaping our Electricity Future

To achieve at least 70% clean electricity by 2030, we need to make the grid stronger and more flexible



How should we achieve this goal?

Four draft approaches to reach 70% by 2030

1 Generation-led
Put clean electricity generation close to where most power is used

2 Developer-led
Let developers decide where to locate clean electricity generation

3 Technology-led
Try new ways to move clean electricity across Northern Ireland

4 Demand-led
Put large electricity users close to sources of clean electricity generation

Our final plan will include elements of all approaches, strongly led by one of them.

SONI

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Shaping our Electricity Future

- Most extensive consultation that SONI has ever undertaken. Closes on 14th June, we value submissions from all

- Industry focused ‘round up’ webinar on 2nd June 2pm-3pm. https://us02web.zoom.us/j/85895901107?pwd=Z3Q3K1dCQnRkeHkvWUQrWmhwenZmdz09

Transmission Development Plan

- Transmission Development Plan NI 2020 – 2029 published in March on SONI website
- TDPNI 2021-2030 to go out to consultation in late Summer and will include outcome of Tomorrow's Energy Scenarios Needs Assessment (to be published shortly)
- Makes provision for projects aimed at additional renewables – will be refined with new Energy Strategy

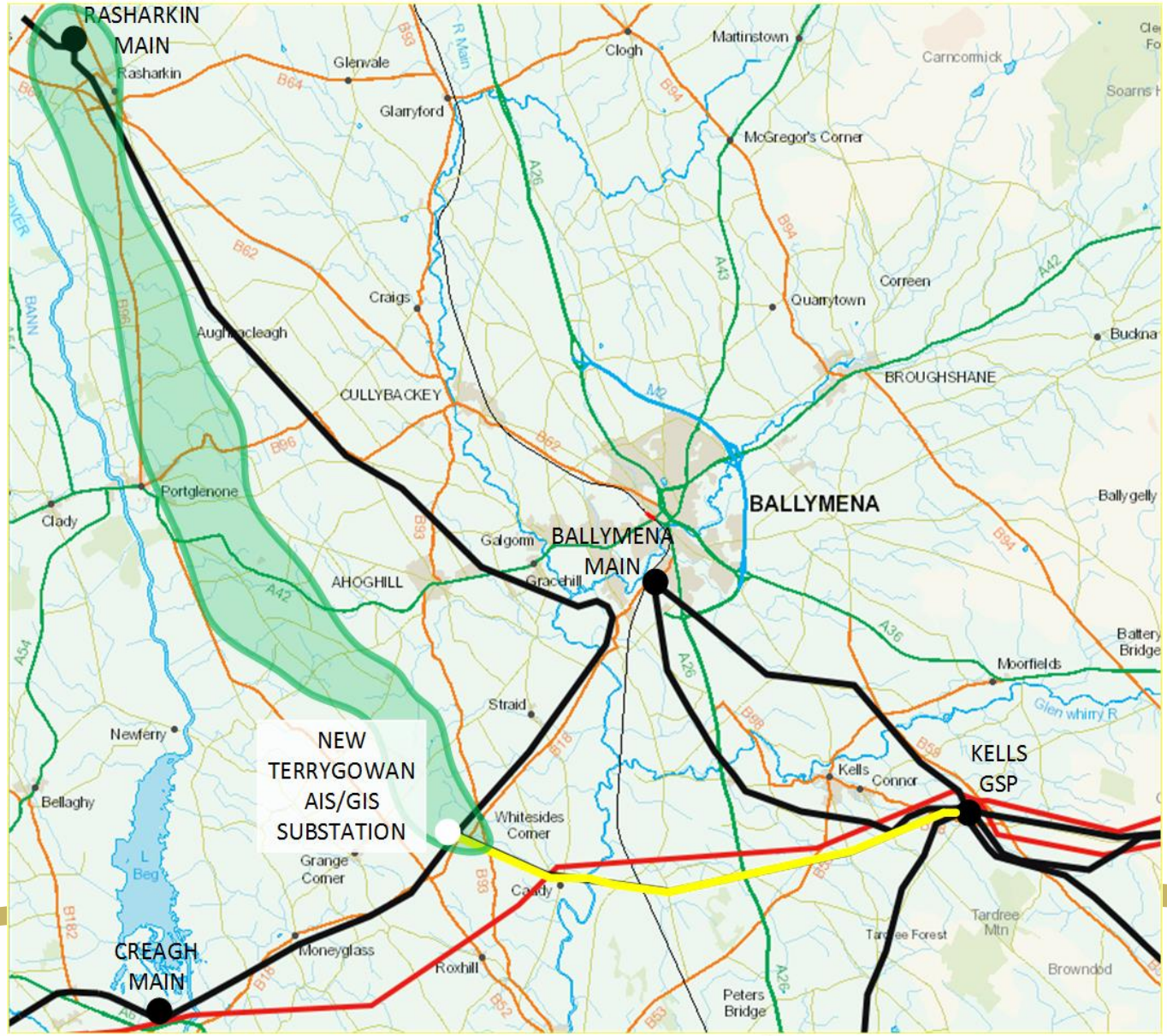
TDPNI and Shaping our Electricity Future

- The TDPNI is based on a business-as-usual approach - SOEF looks at 2030, with a RES-E target of 70% and sets out approaches to meeting this target beyond business as usual approach

Mid Antrim Upgrade

- Will provide greater capacity in Rasharkin – Kells corridor
- Estimated completion 2027
- In early stages of stakeholder engagement and in part 1 of our process for developing the grid
- Briefing key stakeholders in the area, including senior level council officers and politicians to get an early understanding of any planning, environmental, economic or social issues which we should be aware of
- TNPP submission this year
- Moving to part 2 next year which will involve significant pre-application community consultation across the three council areas – Causeway Coast and Glens, Mid Ulster and Antrim and Newtownabbey

Preliminary Preferred Option



Northern Ireland Electricity Networks

SSG SCADA UPDATE

01/06/2021

SCADA Overview

What is SCADA?

- Remote visibility and ‘control’ of generators

- **Alarms** – e.g. Circuit Breaker Status
- **Measurements** – e.g. Voltage
- **Control** – e.g. Reactive Power

Requirements

- Requirements outlined in Distribution Code Issue 1 (2010).
- This is not a retrospective change!

- Responsibility of Generator to install SCADA hardware required – e.g. RTU
- Further Guidance given in SSG Setting Schedule

Benefits of SSG SCADA

High Resolution Data

- Planning
- Operation
- Development

Forecasting

- TSO Benefits – >200MW visibility
- Flexible Connections

Reactive Power

Control of Network Voltage Levels

SSG SCADA Implementation Process

- Initial Notification Letter & Guidance Document issued 5th Dec 2020

- 1st Reminder Letter issued 15th Jan 2021
- 2nd Reminder Letter Issued 19th Feb 2021
- SSGs Appoint a Verified SCADA Installer and complete an Acknowledgement Return Form by 31st March 2021

Acknowledgment Returns - 588 (c96%)

Next Steps

Acknowledgment Received

- SCADA Hardware installed by SCADA Installer at the generator.
- SCADA Site Acceptance Test (SAT) will be completed.
- SAT Certificate Issued to generator
- Completion within ~2 years (*Depending on SCADA Installer Availability/Engagement*)

No Response

- Warning Letter to be issued in June 2020
- 6 Months to install and commission SCADA , including Reactive Power Control.
- Can lead to de-energisation and loss of capacity as per “Non-Compliant LV Generator” Policy.

Frequently Asked Questions

Can I change SCADA Installer at a later date?

You can change SCADA Installer at any point. This change must be made in writing to ssgscada@nienetworks.co.uk to enable engagement surrounding your generator.

I am planning on Re-Powering my Generator, do I need to install SCADA on my existing plant now?

Generators which have submitted a Repowering Application to NIE Networks' Connections Department will have their SCADA and Reactive Power requirements paused until their new/existing generator is installed.

If no Repowering Application is received these requirements will not be paused!

Northern Ireland Electricity Networks

LV GENERATION NON COMPLIANCE POLICY

01/06/2021