

# Green Impact Report

## NextEnergy – NextPower III



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### 1. Introduction<sup>1</sup>

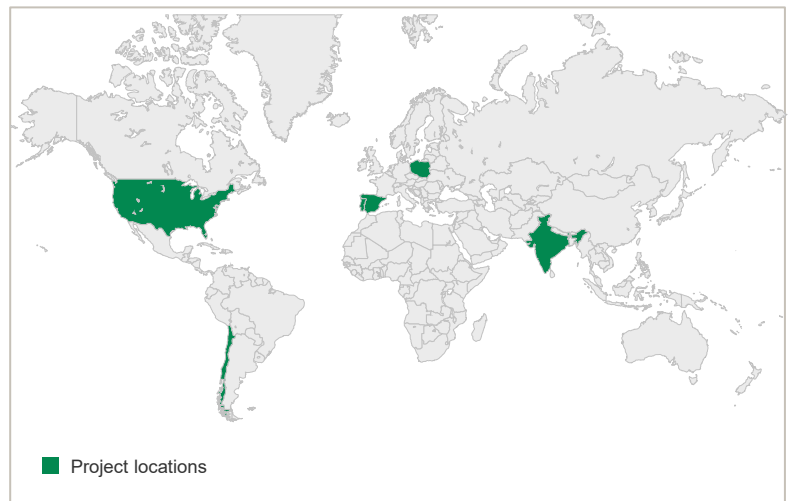
The Green Analytics team of Green Investment Group Limited ('GIG') has prepared this report (the 'Report') in connection with the NPIII assets (the 'Portfolio')<sup>2</sup>. The Green Analytics team has forecast the Portfolio's avoided: greenhouse gas ('GHG') emissions; emissions to air; and fossil fuels consumption (together, the 'Green Impact'), as summarised below. This Report also considers the Portfolio's alignment with the United Nations Sustainable Development Goals relevant to solar generation.

The Portfolio's GIG Carbon Score is 473 AA. We have assessed the weighted average Green Impact Forecast Accuracy for the Portfolio at Level 3 ('Good'). Please refer to Appendix 2 for further information on how these metrics are calculated. The Report uses data provided to the Green Analytics team for each asset (see Appendix 1).

In addition to green impact forecast, this report also provides actual green impact based on operational data. This is summarised below.

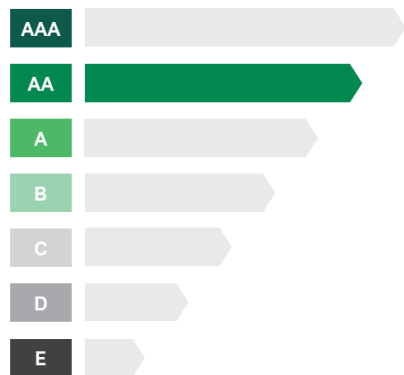
### Project information

<b>Technology</b>	Solar PV
<b>Locations</b>	United States, Chile, India, Portugal, Poland, Spain
<b>Aggregate capacity (MW)</b>	605
<b>First power</b>	2015
<b>Full deployment<sup>3</sup></b>	2025



**GIG**  
CARBON SCORE

**473 AA**



**473 kt CO<sub>2</sub>e**  
AVOIDED (ANNUAL AVERAGE)

### Green Impact: Performance & Forecast

#### GHG emissions avoided (carbon dioxide equivalent)

Performance 2019-2023	938	kt CO <sub>2</sub> e
Remaining lifetime at April'24	11,101	kt CO <sub>2</sub> e
Forecast full deployment annual	473	kt CO <sub>2</sub> e / yr

#### Other emissions to air avoided (oxides of nitrogen)

Performance 2019-2023	1,648	t NO <sub>x</sub>
Remaining lifetime at April'24	21,831	t NO <sub>x</sub>
Forecast full deployment annual	907	t NO <sub>x</sub> / yr

#### Fossil fuels consumption avoided (oil equivalent)

Performance 2019-2023	353	kt oe
Remaining lifetime at April'24	4,361	kt oe
Forecast full deployment annual	195	kt oe / yr

<sup>1</sup> Important note: This Report has been prepared by GIG on the basis of, and should be read in conjunction with, the methodology v1.2, assumptions, limitations and other terms set out in Appendices 2, 3 and the Important Notice and Disclaimer, Appendix 4. This is not a due diligence report and should not be relied upon as such. If appropriate, recipients and users of this Report should conduct their own separate environmental, social and governance enquiries and assessments. This Report is provided for information purposes only and does not constitute and shall not be deemed to be in any way an offer or invitation or solicitation of any offer or invitation to sell or purchase shares or invest in any Project. This Report has not been filed, lodged, registered or approved in any jurisdiction and recipients of this document should keep themselves informed of and comply with and observe all applicable legal and regulatory requirements.

<sup>2</sup> See Appendix 1 for further details of each project in the Portfolio.

<sup>3</sup> Full deployment refers to the stage at which all current assets in the Portfolio are operational.

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### 2. Actual Green Impact Performance

In this Report we use the term ‘Green Impact’ to refer to the GHG, emissions to air and fossil fuels consumption avoided by the Portfolio, as defined in Appendix 2. Actual green impact performance is based on data provided to the Green Analytics team. The actuals outlined in this section cover the period during which the Client has owned a stake in the Portfolio.

#### Annual portfolio performance

Avoidance of GHG emissions (measured in carbon dioxide equivalent: CO<sub>2</sub>e) is derived by comparing the emissions associated with the Portfolio to a counterfactual (alternative method of energy generation). In this case the counterfactual is marginal grid emissions.

The table on the right provides an overview of the annual performance of the Portfolio in terms of GHG avoided, as well as other emissions to air and fossil fuel consumption avoided during the Reporting Period (2019-2023).

#### Annual Performance

	Unit	2019	2020	2021	2022	2023
GHG emissions avoided	kt CO <sub>2</sub> e	11	78	210	291	348
NO <sub>x</sub> emissions avoided	t NO <sub>x</sub>	12	90	355	527	664
SO <sub>x</sub> emission avoided	t SO <sub>x</sub>	26	196	873	1,310	1,665
PM <sub>10</sub> emissions avoided	t PM <sub>10</sub>	<1	2	7	11	14
PM <sub>2.5</sub> emissions avoided	t PM <sub>2.5</sub>	1	9	39	56	68
Fossil fuels consumption avoided	kt oe	4	30	77	109	132

### 3. Green Impact Forecast<sup>1</sup>

Forecasts are based on data provided to the Green Analytics team (see Appendix 1) and are subject to our assessment of Green Impact Forecast Accuracy (as set out on page 4). The forecasts and Green Impact Forecast Accuracy are subject to the methodology, assumptions, limitations and methods set out in the Appendices.

#### Greenhouse gas emissions avoided

Avoidance of GHG emissions (measured in carbon dioxide equivalent: CO<sub>2</sub>e), both actual and forecast, is derived by comparing the emissions associated with the Portfolio to a counterfactual (alternative method of energy generation). In this case, the counterfactual is marginal grid emissions.

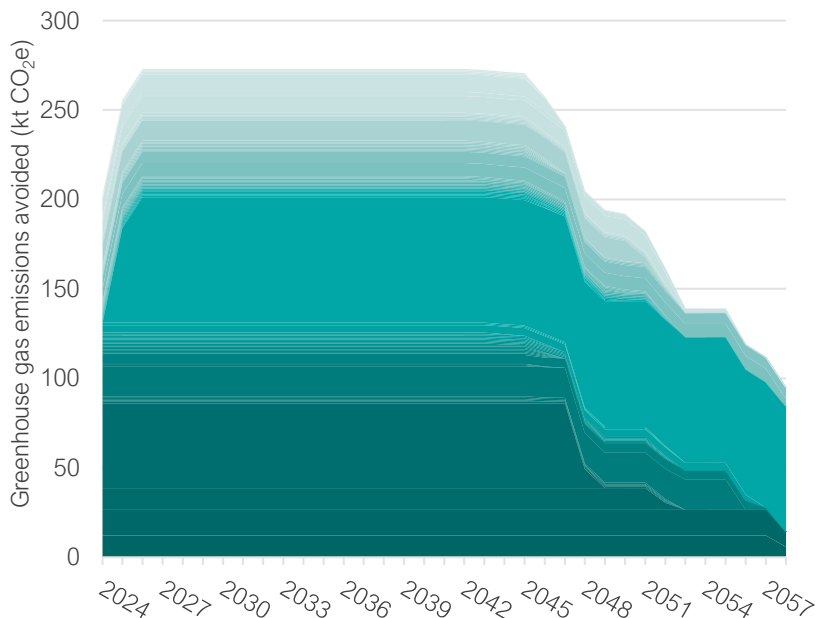
The Portfolio is forecast to avoid 473 kt CO<sub>2</sub>e per year while all the Portfolio’s assets in this Report are fully operational.

#### Greenhouse gas emissions avoided (carbon dioxide equivalent)

Remaining lifetime at Apr '24 11,101 kt CO<sub>2</sub>e

Forecast annual 473 kt CO<sub>2</sub>e / yr

#### The Portfolio is forecast to avoid emissions of 473 kt CO<sub>2</sub>e / yr



<sup>1</sup> See Appendix 1 for further details of each project referenced.

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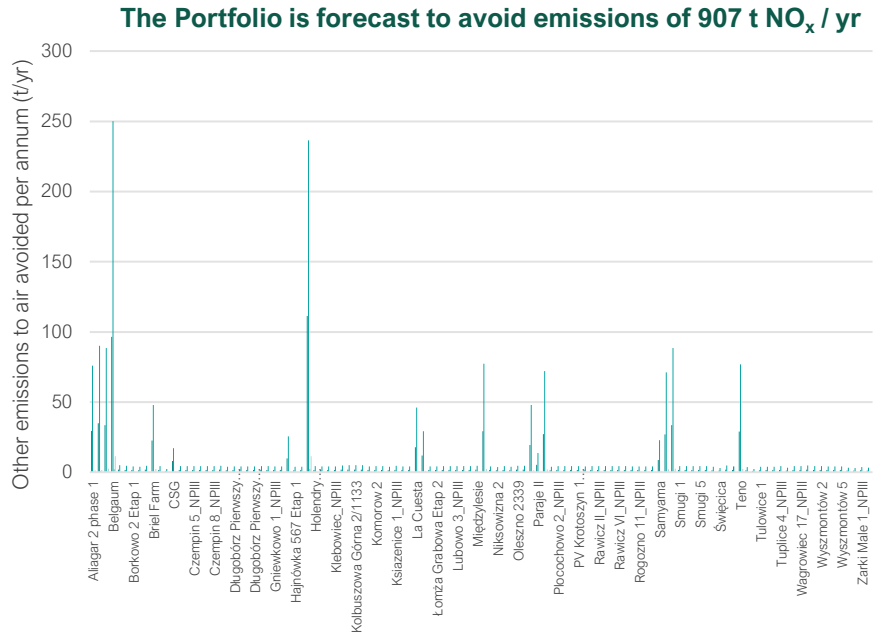


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### 3. Green Impact Forecast (contd.)

#### Other emissions to air avoided

Other emissions to air avoided is a measure of net air pollutant emissions compared to the counterfactual method of energy generation. Quantified air pollutant emissions include oxides of nitrogen (NO<sub>x</sub>), oxides of sulphur (SO<sub>x</sub>), particulates up to 2.5 micrometres (µm) in diameter (PM<sub>2.5</sub>) and particulates between 2.5 µm and 10 µm in diameter (PM<sub>10</sub>). The Portfolio is forecast to result in the avoidance of 907 tonnes NO<sub>x</sub>, 2,243 tonnes SO<sub>x</sub> and 109 tonnes of particulate matter per year while all the Portfolio's assets in this Report are fully operational.



#### Annual emissions to air avoided

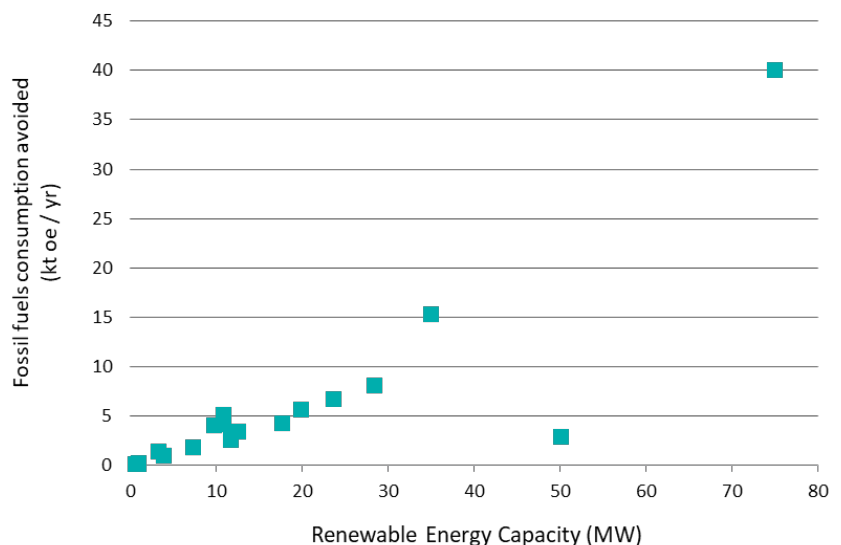
Forecast annual nitrogen oxides	907	t NO <sub>x</sub> / yr
Forecast annual sulphur oxides	2,243	t SO <sub>x</sub> / yr
Forecast annual 10µm particulate matter	19	t PM <sub>10</sub> / yr
Forecast annual 2.5µm particulate matter	90	t PM <sub>2.5</sub> / yr

#### Fossil fuels consumption avoided

Fossil fuels consumption avoided is a measure of the net consumption of coal, oil and gas compared to the counterfactual method of grid-based electricity generation, and is normalised to tonnes of oil equivalent (t oe).

The Portfolio is forecast, on a whole project basis, to avoid an average of 195 kilo tonnes of oil equivalent per year while all the Portfolio's assets in this Report are fully operational.

#### The Portfolio is forecast to avoid 195 kt oil equivalent annually



#### Fossil fuels consumption avoided

**Total lifetime** 4,361 kt oe

**Forecast annual** 195 kt oe / yr

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### Green Impact Forecast Accuracy

The weighted Green Impact Forecast Accuracy is our assessment of the level of confidence that can be reasonably placed on the accuracy of any quantified Green Impact Forecast. It is based on information provided to the Green Analytics team (set out on page 1 and in the methodology referred to in Appendix 2).

We assess Green Impact Forecast Accuracy at levels ranging from Level 1 (Low) to Level 5 (Very High), which represent the combined and weighted average of a series of factors, according to our in-house experience of the sensitivity of each element. See Appendix 2 for further detail.

We have assessed the weighted average Green Impact Forecast Accuracy for the Portfolio at Level 3 (Good). This results from the data quality, technology & development stage, and local governance scores, weighted by forecast generation.

The data quality and development stage levels would be anticipated to increase as more projects in the Portfolio reach operational stage, during which time actual production data would become available. This will then result in an overall increase in Green Impact Forecast Accuracy.

### Level 3 (Good)



### Data quality

Forecast performance is mostly based on pre-operational estimates, leading to a data quality score of Level 2 (Moderate) on a generation-weighted average basis across the Portfolio. As actual operational data is used to inform forecasts, this score should increase.

### Level 2 (Moderate)



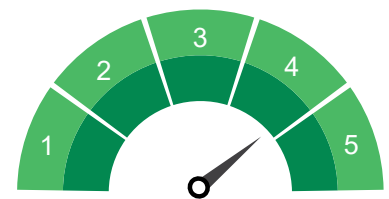
Data quality

### Technology & development stage

The assets in the Portfolio are a mix of operational and pre-operational. Weighted by generation, this leads to a technology & development score of Level 4 (High).

The score has remained the same from the 2022 report despite the addition of pre-operational assets to the portfolio, due to the greater weighting of the larger operational assets. Once full deployment is achieved in April 2025, this score should increase further.

### Level 4 (High)



Technology & development stage

### Local governance

The assets in the Portfolio are spread across different locations globally, located in India, Chile, Portugal, Poland, Spain and the United States. As a result, the local governance score for the Portfolio is based on a generation-weighted average of the different scores, leading to a score of Level 3 (Good).

This score is achieved as much of the forecast generation will be in the United States, which has a higher score than other countries in which the Portfolio is operating.

### Level 3 (Good)



Local governance




### 4. Contribution to the Sustainable Development Goals

The United Nations Sustainable Development Goals<sup>1</sup> (SDGs) are a set of 17 goals for sustainable development, defined by 169 SDG Targets to be achieved by 2030. The Green Analytics team has considered the performance of the Portfolio against the SDGs and their associated Targets. The assessment has identified those Targets to which the Portfolio contributes directly (associated SDGs shown as full coloured icons below), and those Targets to which the Portfolio contributes indirectly (inverted coloured SDG icons below).





#### Direct contribution



Goal	SDG Target	Contribution
	<b>Target 3.9</b> Reduce deaths and illnesses from air pollution	<p>According to the World Health Organization, air pollutants such as nitrogen oxides (NO<sub>x</sub>), sulphur oxides (SO<sub>x</sub>) and particulate matter (PM) can lead to premature death and illnesses such as stroke, heart disease, lung cancer and chronic respiratory diseases<sup>2</sup>. Avoidance of fossil fuel electricity generation due to renewable generation is forecast to avoid average annual emissions of harmful air pollutants of:</p> <ul style="list-style-type: none"> <li>• 907 t NO<sub>x</sub> / yr</li> <li>• 2,243 t SO<sub>x</sub> / yr</li> <li>• 19 t PM<sub>10</sub> / yr</li> <li>• 90 t PM<sub>2.5</sub> / yr</li> </ul>
	<b>Target 7.2</b> Increase substantially the share of renewable energy in the global energy mix	The Portfolio adds 605 MW of aggregate renewable energy generation to the local electricity grid.
	<b>Target 9.1</b> Develop quality, reliable, sustainable and resilient infrastructure	

#### Indirect contribution

Goal	SDG Target	Contribution
	<b>Target 12.2</b> Achieve the sustainable management and efficient use of natural resources	Avoidance of fossil fuel electricity generation due to renewable generation results in the forecast avoidance of the consumption 195 kt oil equivalent annually.
	<b>Target 13.3</b> Improve human and institutional capacity on climate change mitigation	<p>The Portfolio raises awareness and improves institutional capacity on climate change mitigation and negative impact reduction.</p> <p>The Portfolio is forecast to avoid 473 kt CO<sub>2</sub>e of greenhouse gas emissions annually.</p>

<sup>1</sup> <http://sustainabledevelopment.un.org/sdgs>

<sup>2</sup> World Health Organization, Ambient air pollution - a major threat to health and climate: <https://www.who.int/airpollution/ambient/en/>

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### Appendix 1

#### Project data for forecasts

Project name <sup>1</sup>	Capacity (MW) <sup>1</sup>	Forecast annual yield (GWh) <sup>1</sup>	Design life (yrs) <sup>1</sup>	Location <sup>1</sup>	Commercial Operations Date (COD) <sup>1</sup>	GIG Carbon Score <sup>2</sup>
Astillas	10.8	24.2	30	Chile	30/04/2022	12 AA
Belgaum	35.0	54.1	30	India	25/03/2018	47 AA
Bobrowa 2	1.0	1.1	25	Poland	12/04/2021	1 AA
Borkowo 2 Etap 1	1.0	1.0	30	Poland	06/09/2022	<1 AA
Borkowo 2 Etap 2	0.9	0.9	30	Poland	06/09/2022	<1 AA
Borowa	1.0	1.1	30	Poland	10/12/2022	<1 AA
Briel Farm	28.4	40.4	35	United States	01/01/2021	17 A
Bronowice 2	1.0	1.0	25	Poland	23/04/2021	<1 AA
Chlewo 1	0.5	0.5	25	Poland	10/03/2021	<1 AA
CSG	50.1	14.4	35	United States	25/03/2022	5 A
Czempin 1	1.0	1.0	25	Poland	31/08/2021	<1 AA
Czempin 2	1.0	1.0	25	Poland	31/08/2021	<1 AA
Czempin 5	1.0	1.0	25	Poland	31/08/2021	<1 AA
Czempin 6	1.0	1.0	25	Poland	31/08/2021	<1 AA
Czempin 7	1.0	1.0	25	Poland	02/07/2021	<1 AA
Czempin 8	1.0	1.0	25	Poland	02/07/2021	<1 AA
Danków Mały	1.0	1.1	30	Poland	09/12/2022	<1 AA
Debica	1.0	0.9	25	Poland	26/06/2019	<1 AA
Długobórz Pierwszy Etap 1	1.0	1.0	30	Poland	18/08/2022	<1 AA
Długobórz Pierwszy Etap 2	1.0	1.0	30	Poland	18/08/2022	<1 AA
Długobórz Pierwszy Etap 3	1.0	1.0	30	Poland	19/08/2022	<1 AA
Długobórz Pierwszy Etap 4	1.0	1.0	30	Poland	19/08/2022	<1 AA

<sup>1</sup> Project information provided by Client. Project performance data has been provided on a calendar year basis and has not been subject to external assurance.

<sup>2</sup> Data calculated by GIG.

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Project name <sup>1</sup>	Capacity (MW) <sup>1</sup>	Forecast annual yield (GWh) <sup>1</sup>	Design life (yrs) <sup>1</sup>	Location <sup>1</sup>	Commercial Operations Date (COD) <sup>1</sup>	GIG Carbon Score <sup>2</sup>
Falkowo 1	1.0	1.0	25	Poland	20/08/2021	<1 AA
Falkowo 2	1.0	1.0	25	Poland	20/08/2021	<1 AA
Gardy's Mill	18.4	24.9	35	United States	01/01/2021	10 A
Gniewkowo 1	1.0	1.0	25	Poland	25/02/2021	<1 AA
Goszcz	1.0	0.9	25	Poland	24/06/2019	<1 AA
Guadix	7.3	11.7	36	Spain	02/10/2020	4 A
Hajnówka 567 Etap 1	0.9	0.9	30	Poland	29/09/2022	<1 AA
Hajnówka 567 Etap 2	0.9	0.9	30	Poland	29/09/2022	<1 AA
Holendry Baranowskie	1.0	1.0	25	Poland	24/08/2021	<1 AA
Kamien Pomorski 1	1.0	0.9	30	Poland	24/04/2020	<1 AA
Kamien Pomorski 2	1.0	0.9	30	Poland	24/04/2020	<1 AA
Klebowiec	1.0	1.0	25	Poland	20/08/2021	<1 AA
Kłoda	1.0	1.1	30	Poland	25/05/2022	<1 AA
Kolbuszowa Górna 1139	1.0	1.2	30	Poland	31/05/2022	<1 AA
Kolbuszowa Górna 2/1133	1.0	1.2	30	Poland	31/05/2022	<1 AA
Kolbuszowa Górna 4/1136	1.0	1.2	30	Poland	31/05/2022	<1 AA
Kolno Miasto 1	1.0	1.0	30	Poland	05/09/2022	<1 AA
Komorow 2	1.0	1.0	30	Poland	28/05/2020	<1 AA
Komorow 3	1.0	1.0	30	Poland	28/05/2020	<1 AA
Krasnik Koszalincki	1.0	0.9	25	Poland	10/04/2018	<1 AA
Ksiazenice 1	1.0	1.1	25	Poland	10/03/2021	<1 AA
Kuczyn Etap 1	1.0	1.0	30	Poland	14/07/2022	<1 AA
Kuczyn Etap 2	1.0	1.0	30	Poland	14/07/2022	<1 AA
Larinho	11.6	17.1	40	Portugal	30/07/2021	6 A

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Project name <sup>1</sup>	Capacity (MW) <sup>1</sup>	Forecast annual yield (GWh) <sup>1</sup>	Design life (yrs) <sup>1</sup>	Location <sup>1</sup>	Commercial Operations Date (COD) <sup>1</sup>	GIG Carbon Score <sup>2</sup>
Łomża Grabowa Etap 1	1.0	1.0	30	Poland	09/08/2022	<1 AA
Łomża Grabowa Etap 2	1.0	1.0	30	Poland	09/08/2022	<1 AA
Lubowo 1	1.0	1.0	25	Poland	20/08/2021	<1 AA
Lubowo 2	1.0	1.0	25	Poland	20/08/2021	<1 AA
Lubowo 3	1.0	1.0	25	Poland	20/08/2021	<1 AA
Lubowo 4	1.0	1.0	25	Poland	20/08/2021	<1 AA
Lubowo 5	1.0	1.0	25	Poland	20/08/2021	<1 AA
Nahuen	10.9	21.2	30	Chile	15/04/2021	11 AA
NC102	102.5	145.3	35	United States	01/11/2018	75 AA
Niksowizna 1	1.0	1.0	30	Poland	05/09/2022	<1 AA
Niksowizna 2	0.9	0.9	30	Poland	06/09/2022	<1 AA
Niwica 1	1.0	1.0	25	Poland	21/04/2021	<1 AA
Niwica 2	0.9	0.9	25	Poland	21/04/2021	<1 AA
Odisha	27.4	39.8	30	India	14/04/2018	35 AA
Oleszno 2339	1.0	1.1	30	Poland	08/12/2022	<1 AA
Omega	10.5	14.0	30	India	13/03/2015	12 AA
Ostrów	1.0	1.1	30	Poland	09/12/2022	<1 AA
Paderne	17.6	28.1	30	Portugal	06/09/2022	9 A
Paraje II	3.9	6.2	36	Spain	05/02/2020	2 A
Picunche	10.8	19.0	24	Chile	22/09/2022	9 AA
Pinczyn 2	1.0	0.9	30	Poland	04/09/2020	<1 AA

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Project name <sup>1</sup>	Capacity (MW) <sup>1</sup>	Forecast annual yield (GWh) <sup>1</sup>	Design life (yrs) <sup>1</sup>	Location <sup>1</sup>	Commercial Operations Date (COD) <sup>1</sup>	GIG Carbon Score <sup>2</sup>
Plocochowo 2	1.0	1.0	25	Poland	16/04/2021	<1 AA
Plocochowo 3	1.0	1.1	25	Poland	16/04/2021	<1 AA
Plocochowo	1.0	1.1	25	Poland	16/04/2021	<1 AA
PV Krotoszyn 1 Krotoszyn Polnoc	1.0	1.1	25	Poland	31/08/2021	<1 AA
PV Sepolno 5 (Swidwie A)	1.0	1.0	25	Poland	23/06/2021	<1 AA
Rawicz I	1.0	1.0	25	Poland	05/08/2021	<1 AA
Rawicz II	1.0	1.0	25	Poland	05/08/2021	<1 AA
Rawicz IX	1.0	1.0	25	Poland	05/08/2021	<1 AA
Rawicz V	1.0	1.0	25	Poland	13/06/2022	<1 AA
Rawicz VI	1.0	1.0	25	Poland	13/06/2022	<1 AA
Rawicz VIII	1.0	1.0	25	Poland	05/10/2021	<1 AA
Rogozno 10	1.0	1.0	25	Poland	31/08/2021	<1 AA
Rogozno 11	1.0	1.0	25	Poland	31/08/2021	<1 AA
Runowo Krajenskie	1.0	1.0	25	Poland	24/06/2019	<1 AA
Sadowo 2	1.0	1.0	30	Poland	28/06/2022	<1 AA
Samyama	3.3	5.0	25	India	21/12/2016	4 AA
San Vicente	9.7	19.5	30	Chile	29/09/2021	10 AA
Smugi 1	1.0	1.0	30	Poland	29/11/2022	<1 AA
Smugi 3	1.0	1.0	30	Poland	29/11/2022	<1 AA
Smugi 4	1.0	1.0	30	Poland	29/11/2022	<1 AA
Smugi 5	1.0	1.0	30	Poland	29/11/2022	<1 AA
Solar Krotoszyn 1A Krotoszyn Poludnie	1.0	1.0	25	Poland	31/08/2021	<1 AA
Stare Czaple 3	1.0	0.9	25	Poland	31/08/2021	<1 AA

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Święcica	0.6	0.7	30	Poland	12/05/2022	<1 AA
Szczebrzusz	1.0	1.1	30	Poland	24/05/2022	<1 AA
Szczuczyn 2	1.0	0.9	25	Poland	26/06/2019	<1 AA
Teno	10.9	21.1	30	Chile	02/06/2021	11 AA
Tulodział 1	0.9	0.9	25	Poland	18/04/2021	<1 AA
Tulodział 2	0.5	0.5	25	Poland	18/04/2021	<1 AA
Tulowice 1	0.9	0.9	25	Poland	19/12/2018	<1 AA
Tulowice 2	0.9	0.9	25	Poland	19/12/2018	<1 AA
Tulowice 3	0.9	0.9	25	Poland	19/12/2018	<1 AA
Tuplice 4	1.0	1.0	25	Poland	31/08/2021	<1 AA
Wagrowiec 13	0.8	0.8	25	Poland	31/08/2021	<1 AA
Wagrowiec 16	1.0	1.0	25	Poland	01/10/2021	<1 AA
Wagrowiec 17	1.0	1.0	25	Poland	01/10/2021	<1 AA
Wysock	1.0	1.2	30	Poland	17/05/2022	<1 AA
Wyszmontów 1	1.0	1.0	30	Poland	23/11/2022	<1 AA
Wyszmontów 2	1.0	1.0	30	Poland	23/11/2022	<1 AA
Wyszmontów 3	1.0	1.0	30	Poland	23/11/2022	<1 AA
Wyszmontów 4	1.0	1.0	30	Poland	23/11/2022	<1 AA
Wyszmontów 5	1.0	1.0	30	Poland	23/11/2022	<1 AA
Zacisze 1	0.8	0.9	25	Poland	26/06/2019	<1 AA
Zacisze 2	0.7	0.9	25	Poland	26/06/2019	<1 AA
Zarki Male 1	0.8	0.9	25	Poland	23/04/2021	<1 AA
Zielonka Pasłęcka	0.8	0.8		Poland	08/11/2022	<1 AA

<sup>1</sup> Project information provided by Client. Project performance data has been provided on a calendar year basis and has not been subject to external assurance.

<sup>2</sup> Data calculated by GIG.

## Appendix 2

### Terms and conditions: terminology and methodology

#### Terminology

##### *Green impact*

The Green Impact metrics covered by this Report are identified in the header and executive summary. “Green Impact” is a collective term referring to the environmental benefits which have been calculated in accordance with GIG’s methodology to be, or to be reasonably likely to be, delivered by the project(s) to which this Report refers. The collective term can include defined metrics such as tonnes carbon dioxide equivalent avoided (t CO<sub>2</sub>e), tonnes oil equivalent avoided (toe), and tonnes (t) of other air pollutant emissions avoided.

##### *Green impact forecast accuracy*

“Green Impact Forecast Accuracy” is an expression of the level of confidence that, in the opinion of GIG, can reasonably be placed on the accuracy of any quantified Green Impact forecast. This assessment of forecast accuracy is described in levels as follows: Level 1 (Low), Level 2 (Moderate), Level 3 (Good), Level 4 (High), and Level 5 (Very High).

##### *Methodology v 1.2*

The Green Impact and Green Impact Forecast Accuracy assessments presented in this Report are based on GIG’s approach to assessing Green Impact using the methodologies set out within its proprietary green investment principles, policies and the associated processes of the Green Investment Handbook<sup>1</sup>. The Green Impact assessment has applied proprietary modelling techniques and comparative data developed and owned by GIG, or by third party owners and made available under licence to GIG.

##### *Green impact calculation*

GIG’s initial calculation of the Green Impact of each project is produced by comparing relevant information and data derived from that project against relevant counterfactual (or baseline) data for the assumed environmental impacts that would occur if the project did not take place, based on GIG’s proprietary reference sources or

provided to GIG by relevant third parties or obtained from publicly available sources. The resultant estimated Green Impact is then subject to further qualitative evaluation before production of GIG’s formal Green Impact Report.

For grid-connected projects that generate electricity, the counterfactual is assumed to be marginal electricity generated from the local electricity grid, which includes resources consumed to supply grid electricity. GIG’s methodology calculates the net Green Impact of the project by comparing its likely emissions to those of a marginal grid electricity mix, using the methodology set out in the International Financial Institutions (IFI) approach to GHG accounting for renewable energy projects<sup>2</sup> and the IFI approach to GHG accounting for energy efficiency projects<sup>3</sup>.

GIG’s methodology calculates results for likely Green Impact on an annual and lifetime basis. The Green Impact reported is 100% of the Green Impact of the underlying project(s). There is no proportionate allocation of Green Impact to any particular project investment or to particular investors, all of whom may report the same Green Impact from the underlying project(s).

##### *Exclusions*

The counterfactual of marginal grid electricity does not include the total quantifiable lifecycle environmental burdens (e.g. resources consumed during construction, or indirect emissions during operations such as those from associated transport vehicles) associated with energy generation. Therefore, to produce a valid comparison, the calculation of Green Impact for the project(s) assessed in this Report is based solely on the operational phase of the relevant project(s), and does not include a full lifecycle assessment of the project(s) unless specifically stated otherwise. This approach is aligned with the Greenhouse Gas Project Protocol<sup>4</sup>. GIG’s assessment does not include a review of any underlying project’s environmental and/or social, permitting, licensing or other compliance status.

##### *Green impact forecast accuracy*

Green Impact Forecast Accuracy is determined from a number of project parameters that include the project technology, stage of project development, and location of the project, together with GIG’s opinion of the input data quality. These parameters have been assigned values that represent the degree to which they affect the accuracy of the forecast Green Impact, and are used to produce Forecast Accuracy scores for three elements: Data quality, Technology & development stage, and Local governance<sup>5</sup>. The Forecast Accuracy scores for the three elements are weighted according to GIG’s in-house experience of the sensitivity of each element and combined to derive an overall level of Green Impact Forecast Accuracy.

##### *Carbon score*

Our Carbon Score shows the quantified greenhouse gas emissions avoided combined with our Carbon Rating. The Carbon Rating is a measure of a project’s lifecycle greenhouse gas emissions compared to the emissions of the counterfactual. Projects with the lowest lifecycle emissions relative to the counterfactual would score the highest ratings from AAA to B. Projects with lifecycle emissions similar to the counterfactual would score a C, and projects with greater emissions would score a D or E. The emissions of the counterfactual are derived from the IFI approaches to greenhouse gas accounting – please see above for details. Where we do not have project-specific information on lifecycle emissions, we use the median harmonised values from the US National Renewable Energy Laboratory’s Lifecycle Assessment Harmonization<sup>6</sup>

<sup>1</sup> [www.greeninvestmentbank.com/green-impact](http://www.greeninvestmentbank.com/green-impact)

<sup>2</sup> [https://unfccc.int/sites/default/files/resource/Renewable%20Energy\\_GHG%20accounting%20approach.pdf](https://unfccc.int/sites/default/files/resource/Renewable%20Energy_GHG%20accounting%20approach.pdf)

<sup>3</sup> [https://unfccc.int/sites/default/files/resource/Energy%20Efficiency\\_GHG%20accounting%20approach.pdf](https://unfccc.int/sites/default/files/resource/Energy%20Efficiency_GHG%20accounting%20approach.pdf)

<sup>4</sup> [www.ghgprotocol.org/standards/project-protocol](http://www.ghgprotocol.org/standards/project-protocol)

<sup>5</sup> Local governance scores are determined from datasets of indicators from the World Bank, Transparency International and United Nations University Institute for Environment and Human Security

<sup>6</sup> [www.nrel.gov/analysis/sustain-1cah.html](http://www.nrel.gov/analysis/sustain-1cah.html)

### Appendix 3

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### Appendix 3

#### Terms and conditions: assumptions, limitations and other terms

##### Reference data

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GIG calculates Green Impact using reference data obtained from, among others, by the Ecoinvent life cycle inventory datasets for the calculation of environmental impacts. Green Impact is also calculated based on data supplied by the International Energy Agency ("IEA"), specifically from the 2015 editions of the World Energy Statistics and Balances dataset and the CO2 Emissions from Fuel Combustion dataset.

Any limitations and caveats that are applicable to the Ecoinvent and IEA datasets, as published on their websites, are also applicable to the results presented in this Report.

GIG's method is designed to work with a limited number of key inputs and to be globally applicable, and makes some simplifying assumptions in order to achieve this degree of flexibility.

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