

Green impact statements



Green
Investment
Group

GIG balance sheet

Lifetime green impact metrics[◇]

	Additional lifetime green impact from investments made in 2022/23	Lifetime green impact from all investments made to date
Greenhouse gas emissions avoided (kt CO ₂ e)	9,516	217,516
Renewable energy generated (GWh)	16,222	599,153
Energy demand reduced (GWh)	0	3,959
Materials recycled (kt)	1,581	40,037
Waste to landfill avoided (kt)	6,645	131,982
Energy storage capacity (MW/MWh)	6/13	263/553

[◇] Indicator signifies where limited assurance over the preparation of the Selected Information has been obtained in accordance with the GIG Green Reporting Criteria and with the International Standard on Assurance Engagements 3000 (Revised) Assurance Engagements Other than Audits or Reviews of Historical Financial Information ("ISAE 3000 (Revised)", issued by the International Auditing and Assurance Standards Board ("IAASB").

Reduction of greenhouse gas (GHG) emissions

Estimated lifetime GHG emissions reduction of new GIG investments in the reporting period	Year ended 31.03.23 kilotonnes CO ₂ e	Year ended 31.03.22 kilotonnes CO ₂ e
Offshore wind	0	0
Waste	1,334	0
Energy efficiency	0	0
Bioenergy	0	0
Onshore wind	5,519	2,359
Solar	2,663	4,361
Total	9,516[◇]	6,720

Estimated lifetime GHG emissions reduction of all GIG investments to date	Year ended 31.03.23 kilotonnes CO ₂ e	Year ended 31.03.22 kilotonnes CO ₂ e
Offshore wind	68,394	68,282
Waste	39,057	37,721
Energy efficiency	2,277	2,277
Bioenergy	65,263	66,202
Onshore wind	31,431	29,207
Solar	11,094	8,404
Total	217,516[◇]	212,093

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Generation of renewable energy

Estimated lifetime renewable energy generated by new GIG investments in the reporting period	Year ended 31.03.23 GWh	Year ended 31.03.22 GWh
Offshore wind	0	0
Waste	3,404	0
Energy efficiency	0	0
Bioenergy	0	0
Onshore wind	6,713	2,788
Solar	6,105	9,331
Total	16,222[◇]	12,119

Estimated lifetime renewable energy generated by all GIG investments to date	Year ended 31.03.23 GWh	Year ended 31.03.22 GWh
Offshore wind	158,884	158,603
Waste	76,144	72,613
Energy efficiency	1,265	1,265
Bioenergy	216,411	220,582
Onshore wind	121,743	118,788
Solar	24,706	18,467
Total	599,153[◇]	590,318

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Energy demand reduction

Estimated lifetime energy demand reduced by new GIG investments in the reporting period	Year ended 31.03.23 MWh	Year ended 31.03.22 MWh
Electricity	0	0
Heating fuels	0	0
Total	0[◇]	0

Estimated lifetime energy demand reduced by all GIG investment to date	Year ended 31.03.23 MWh	Year ended 31.03.22 MWh
Electricity	1,800,459	1,800,459
Heating fuels	2,158,799	2,158,799
Total	3,959,258[◇]	3,959,258

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Recycling of materials

Estimated lifetime materials consumption avoided through materials recycling by new GIG investments in the reporting period	Year ended 31.03.23 tonnes	Year ended 31.03.22 tonnes
Compost	0	0
Digestate (PAS 110)	0	0
Compost-like output	0	0
Plastics-mixed	0	0
Ferrous metals	185,300	0
Non-ferrous metals	34,640	0
Paper/card	0	0
Glass	0	0
Mineral aggregates	1,360,700	0
Waste electrical and electronic equipment (WEEE)	0	0
Other	0	0
Total	1,580,640[◇]	0

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Estimated lifetime materials consumption avoided through materials recycling by all GIG investments to date	Year ended 31.03.23 tonnes	Year ended 31.03.22 tonnes
Compost	987,642	987,642
Digestate (PAS 110)	7,466,156	7,466,156
Compost-like output	1,128,809	1,128,809
Plastics-mixed	704,050	704,050
Ferrous metals	1,598,217	1,412,638
Non-ferrous metals	823,903	789,200
Paper/card	654,299	654,299
Glass	9,424	9,424
Mineral aggregates	20,483,722	19,119,170
Waste electrical and electronic equipment (WEEE)	34,328	34,328
Other	6,146,348	6,146,348
Total	40,036,898[◇]	38,452,064

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Avoidance of waste to landfill

Estimated lifetime waste to landfill avoided by new GIG investments in the reporting period	Year ended 31.03.23 tonnes	Year ended 31.03.22 tonnes
Biodegradable waste	4,721,020	0
Non-biodegradable waste	1,924,320	0
Total	6,645,340[◇]	0

Estimated lifetime waste to landfill avoided by all GIG investments to date	Year ended 31.03.23 tonnes	Year ended 31.03.22 tonnes
Biodegradable waste	89,174,689	84,441,591
Non-biodegradable waste	42,807,612	40,877,690
Total	131,982,301[◇]	125,319,281

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Energy storage capacity

Estimated lifetime energy storage capacity added by new GIG investments in the reporting period	Year ended 31.03.23 tonnes	Year ended 31.03.22 tonnes
Electrical power capacity (MW)	6 [◇]	194
Electrical energy capacity (MWh)	13 [◇]	200

Estimated lifetime energy storage capacity added by all GIG investments to date	Year ended 31.03.23 tonnes	Year ended 31.03.22 tonnes
Electrical power capacity (MW)	263 [◇]	257
Electrical energy capacity (MWh)	553 [◇]	540

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Estimated lifetime green impact of all GIG investments to date - year on year changes	GHG emissions reduction kilotonnes CO ₂ e	Renewable energy generated GWh	Energy demand reduced MWh	Materials recycled tonnes	Waste to landfill avoided tonnes	Energy storage capacity MW/MWh
Year ended 31.03.22	212,093	590,318	3,959,258	38,452,064	125,319,281	253/540
Revised 31.03.22 following corrections (note 1)	212,093	590,318	3,959,258	38,452,064	125,319,281	257/540
New investments made in the period (note 2) [◇]	9,516	16,222	0	1,580,640	6,645,340	6/13
Projects cancelled in the period	0	0	0	0	0	0
Removal of estimated remaining lifetime of assets exited in the period that were acquired as operational (note 3)	(3,457)	(4,171)	0	0	0	0
Variation of forecast remaining lifetime and actuals from last year's forecast (note 4)	(636)	(3,217)	0	4,194	17,680	0
Year ended 31.03.23[◇]	217,516	599,153	3,959,258	40,036,898	131,982,301	263/553

Balance sheet: notes to the statements

Year-on-year changes to estimated lifetime green impact

The table above shows how the lifetime green impact at the end of 2022/23 compares to that at the end of 2021/22, and provides a breakdown of the changes. In summary, these changes in lifetime green impact were caused by:

1. Non-material adjustments/corrections
 - Investments made in the last period but not included in last year's report where, in the period ending 31.03.22, GIG invested in and developed beyond Final Investment Decision, which is the milestone for securing the project's financing prior to construction and the point at which projects are reported in the green impact statements. This includes a battery storage project in the US (Javits).
 - Electrical energy capacity of Maldon was updated to 40 MWh, replacing the oversized capacity reported last year (50 MWh), which accounted for losses.
2. New investments made in this period. These include three solar projects (Delfini, Greece Bolotana B, Italy; and VEH Srishti, India) one waste-to-energy project in the UK (South Clyde Energy Centre), and one battery storage project in the US (Ford).

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3. Removal of estimated remaining lifetime of exited assets that were acquired as operational - in line with our Green Impact Reporting Criteria available on our [website](#), when GIG acquired assets that were already operational, the remaining lifetime green impact of these is not included upon divestment. Remaining green impact from such assets divested prior to, during, and since the reporting period is not included in the 2022/23 figures.
4. Existing projects' variation of performance/reforecasts from last year forecasts
 - Where project performance varies >5 per cent from forecasts, GIG takes an average of past performance and, where relevant, pre-operational forecasts to estimate the remaining lifetime green impact. See Green Impact Reporting Criteria on our [website](#) for further information.

General notes to the statements

1. A significant proportion of GIG's lifetime green impact is anticipated to be delivered by projects after their divestment by GIG. This follows the approach for reporting the green impact of exited transactions specified in the Green Impact Reporting Criteria on our [website](#). The percentage of lifetime impact of each metric after divestment is shown in the table below:

Metric	Percentage of lifetime green impact from projects after their divestment
GHG emissions reduction	72%
Renewable energy generated	71%
Energy demand reduced	93%
Materials recycled	94%
Waste-to-landfill avoided	94%
Energy storage capacity	100%

20th December 2023

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Independent Limited Assurance Report to the Directors of UK Green Investment Bank Limited on Green Impact Data within the Progress Report in relation to Green Impact Data reported for projects held on Green Investment Group's balance sheet

Independent Limited Assurance Report by Deloitte LLP to the Directors of UK Green Investment Bank Limited on the Selected Information within the Progress Report for the reporting period ended 31 March 2023.

What we found: Our assurance conclusion

Based on our procedures described in this report, and evidence we have obtained, nothing has come to our attention that causes us to believe that the Selected Information for the year ended 31 March 2023, as listed below and indicated with a \diamond in the Progress Report has not been prepared, in all material respects, in accordance with the Applicable Criteria defined by the directors, which can be found on the GIG website: <https://www.greeninvestmentgroup.com/en/who-we-are/green-impact-governance.html>.

Emphasis of matter

We draw your attention to Note 1 of General Notes to the Statements, which includes a table illustrating the proportion of GIG's Lifetime Green Impact attributable to exited investments. GIG's approach to accounting for exited investments is described on page 4 of GIG's Reporting Criteria. For assets acquired as Pre-construction or Construction assets, GIG continues to report the estimated future remaining lifetime Green Impact beyond the point of exit. Consequently, under GIG's Reporting Criteria, it is assumed that assets continue to perform in line with the estimations forecast at the point of exit. Our conclusion is not modified in this respect.

What we looked at: scope of our work

UK Green Investment Bank Limited has engaged us to perform an independent limited assurance in accordance with International Standard on Assurance Engagements 3000 (Revised) *Assurance Engagements Other than Audits or Reviews of Historical Financial Information* ("ISAE 3000 (Revised)"),

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issued by the International Auditing and Assurance Standards Board (“IAASB”) and our agreed terms of engagement.

The Selected Information in scope of our engagement for the period ended 31 March 2023, and as listed below and indicated with a ◊ in the Progress Report is as follows:

Green Impact Data for “Lifetime green impact from all investments made to date” and “Additional lifetime green impact from investments made in 2022/23”			
Selected Information	Unit of measurement	Applicable Criteria	Reported amount
Additional Green Impact from investments made in 2022-23			
GHG emissions reduction	kt CO ₂ e	Self-defined “Green Impact Reporting Criteria”	9,516
Renewable energy generated	GWh		16,222
Energy demand reduced	GWh		0
Materials recycled	kt		1,581
Waste-to-landfill avoided	kt		6,645
Energy storage capacity	MW / MWh		6/13
Lifetime impact from cumulative investments made to date			
GHG emissions reduction	kt CO ₂ e	Self-defined “Green Impact Reporting Criteria”	217,516
Renewable energy generated	GWh		599,153
Energy demand reduced	GWh		3,959
Materials recycled	kt		40,037
Waste-to-landfill avoided	kt		131,982
Energy storage capacity	MW / MWh		263/553

The Selected Information, as listed in the above table, needs to be read and understood together with the Applicable Criteria set out on the GIG website: <https://www.greeninvestmentgroup.com/en/who-we-are/green-impact-governance.html>.

Inherent limitations of the Selected Information

We obtained limited assurance over the preparation of the Selected Information in accordance with the Applicable Criteria. Inherent limitations exist in all assurance engagements.

Any internal control structure, no matter how effective, cannot eliminate the possibility that fraud, errors or irregularities may occur and remain undetected and because we use selective testing in our engagement, we cannot guarantee that errors or irregularities, if present, will be detected.

The self-defined Applicable Criteria, the nature of the Selected Information, and absence of consistent external standards allow for different, but acceptable, measurement methodologies to be adopted which may result in variances between entities. The adopted measurement methodologies may also impact comparability of the Selected Information reported by different organisations and from year to year within an organisation as methodologies develop.

Directors’ responsibilities

The Directors are responsible for:

Selecting and establishing the Applicable Criteria.

Preparing, measuring, presenting and reporting the Selected Information in accordance with the Applicable Criteria.

Publishing the Applicable Criteria publicly in advance of, or at the same time as, the publication of the Selected Information.

Designing, implementing, and maintaining internal processes and controls over information relevant to the preparation of the Selected Information to ensure that they are free from material misstatement, including whether due to fraud or error.

Providing sufficient access and making available all necessary records, correspondence, information and explanations to allow the successful completion of the Services.

Confirming to us through written representations that you have provided us with all information relevant to our Services of which you are aware, and that the measurement or evaluation of the underlying subject matter against the Applicable Criteria, including that all relevant matters, are reflected in the Selected Information.

Our responsibilities

We are responsible for:

Planning and performing procedures to obtain sufficient appropriate evidence in order to express an independent limited assurance conclusion on the Selected Information.

Communicating matters that may be relevant to the Selected Information to the appropriate party including identified or suspected non-compliance with laws and regulations, fraud or suspected fraud, and bias in the preparation of the Selected Information.

Reporting our conclusion in the form of an independent limited Assurance Report to the Directors.

Our independence and competence

In conducting our engagement, we complied with the independence and other ethical requirements of the ICAEW Code of Ethics. The ICAEW Code is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

We applied the International Standard on Quality Management (UK) 1 (“ISQM(UK) 1”), issued by the Financial Reporting Council. Accordingly, we maintained a comprehensive system of quality including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

What we did: key procedures

We are required to plan and perform our work to address the areas where we have identified that a material misstatement of the description of activities undertaken in respect of the Selected Information is likely to arise. The procedures we performed were based on our professional judgment. In carrying out our limited assurance engagement on the description of activities undertaken in respect of the Selected Information, we performed the following procedures:

- Performed analytical review procedures and consider the risks of material misstatement of the Selected Information.
- Through inquiries of management, obtained an understanding of the Company, its environment, processes and information systems relevant to the preparation of the Selected Information sufficient to identify and assess risks of material misstatement in the Selected Information, and provide a basis for designing and performing procedures to respond to assessed risks and to obtain limited assurance to support a conclusion.
- Through inquiries of management, obtained an understanding of internal controls relevant to the Selected Information, the quantification process and data used in preparing the Selected Information, the methodology for gathering qualitative information, and the process for preparing and reporting the Selected Information. We will not evaluate the design of particular internal control activities, obtain evidence about their implementation or test their operating effectiveness.

- Through inquiries of management, documented whether an external expert has been used in the preparation of the Selected Information, then evaluate the competence, capabilities and objectivity of that expert in the context of the work performed and also the appropriateness of that work as evidence.
- Inspected documents relating to the Selected Information, including board committee minutes and where applicable internal audit outputs to understand the level of management awareness and oversight of the Selected Information.
- Performed procedures over the Selected Information, including recalculation of relevant formulae used in manual calculations and assessment whether the data has been appropriately consolidated.
- Performed procedures over underlying data on a statistical sample basis to assess whether the data has been collected and reported in accordance with the Applicable Criteria, including verifying to source documentation. We reviewed information supplied by GIB clients, projects or fund managers, or collected within GIB and information supplied by the Funds, fund managers or collected from the Funds' portfolio companies. We did not carry out any work to verify that information, and nor did we carry out any work over its completeness or accuracy. We also did not conduct any site visits.
- Performed procedures over the Selected Information including assessing management's assumptions and estimates.
- Accumulated misstatements and control deficiencies identified, assessing whether material.
- Read the narrative accompanying the Selected Information with regard to the Applicable Criteria, and for consistency with our findings.

The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.

Use of our report

This report is made solely to the Directors of UK Green Investment Bank Limited in accordance with ISAE 3000 (Revised) and our agreed terms of engagement. Our work has been undertaken so that we might state to the Directors of UK Green Investment Bank Limited those matters we have agreed to state to them in this report and for no other purpose.

Without assuming or accepting any responsibility or liability in respect of this report to any party other than UK Green Investment Bank Limited and the Directors of UK Green Investment Bank Limited, we acknowledge that the Directors of UK Green Investment Bank Limited may choose to make this report publicly available for others wishing to have access to it, which does not and will not affect or extend for any purpose or on any basis our responsibilities. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than UK Green Investment Bank Limited and the Directors of UK Green Investment Bank Limited as a body, for our work, for this report, or for the conclusions we have formed.



Deloitte LLP
London, UK
20 December 2023

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