

# GLIL Infrastructure LLP TCFD Product Report

For the period 01 January to 31 December 2023

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As at	31 December 2023
Fund size	£3.625 billion committed capita
LEI	2138007Y9UIN7PSY5380

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### Introduction

This TCFD product report has been produced by Local Pensions Partnership Investments (LPPI) as the appointed Alternative Investment Fund Manager for GLIL Infrastructure LLP (GLIL or the Fund) to inform and assist investors in the Fund with their climate-related financial disclosures.

#### Overview of the Fund

The Fund is an Alternative Investment Fund investing in core infrastructure assets predominantly in the United Kingdom. Investments pursue the following characteristics:

- · Long life and low risk of obsolescence.
- Identifiable and reliable cash flows which are explicitly or implicitly inflation linked.
- Returns that are largely isolated from the business cycle and competition.
- Returns that show limited correlation with other asset classes.

Further information on the Fund is accessible from the GLIL <u>website</u>.

#### **Background to TCFD product reports**

The recommendations of the Task Force on Climate-Related Financial Disclosures (TCFD) set out how organisations across sectors and geographies should disclose climate-related financial information. The recommendations are structured around four thematic pillars that represent core elements of how organisations operate:

- 1. Governance
- 2. Strategy
- 3. Risk Management
- 4. Metrics and targets

As required by our regulator, the Financial Conduct Authority, we have made detailed disclosures under each of the four pillars within our LPPI Entity TCFD Report.

We are additionally required to supply on-demand TCFD product reports and underlying data to clients who require this information to satisfy climate-related financial disclosure obligations.

This Product Report has been voluntarily produced by LPPI and pre-empts requests for information specific to the Fund which will assist clients with climate-related financial disclosures.

Our approach to Governance, Strategy, and Risk Management for the Fund does not deviate materially from LPPI's overarching approach, which is set out in our LPPI Entity TCFD Report, available at www.lppi. co.uk. Where there are differences, including aspects or arrangements specific to the Fund, these are outlined in the sections below.



### 1. Governance

The governance of climate-related risks and opportunities is incorporated into oversight and management arrangements specific to the Fund.

The GLIL Executive Committee comprises investment professionals from each of the Fund's founding members plus independent members with specialisms including renewable energy investments. This Committee has oversight of the Fund's environmental, social, and governance (ESG) Policy which sets the approach to integrating climate-related risks and opportunities as part of active stewardship. The Fund's ESG Policy is reviewed tri-annually and is due to be refreshed in 2024.

The GLIL Investment Committee is a committee of the LPPI Board and has overall responsibility for the Fund's investment management activities including procedures which implement the Fund's ESG Policy. Assessing and managing climate-related risks and opportunities forms part of pre-investment research and screening, investment due diligence, capital deployment decision-making, portfolio monitoring, and direct asset management.

The GLIL Investment Committee reviews all investment proposals brought forward by the Investment Team. Underwriting incorporates pre-investment screening and the consideration of relevant climate-related risks and opportunities at both sector and asset level, ensuring they are being identified and considered as part of decision-making and stewardship planning.

Assets are managed in accordance with plans agreed by the GLIL Investment Committee. Each investment is allocated to a senior member of the Investment Team who leads the asset management process which often involves taking a seat on the board of an investee company. Stewardship involves frequent interactions with investee companies and encompasses dialogue with operators and management teams around enhanced data availability, and appropriate metrics, targets, and disclosures for their business.

GLIL Investment Committee approval is required for all investment decisions, including responsible investment considerations, ESG priorities, and matters warranting specialist external expertise or focussed research and engagement.

The GLIL Investment Committee receives regular reporting from the Investment Team, with dedicated asset leads being responsible for delivering the relevant detail and insights at individual asset level. Climate-related risks and opportunities are also considered at whole fund level, over short, medium, and long-term horizons.

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### 2. Strategy

LPPI's approach to assessing and managing the risks and opportunities posed by climate change is explained in the LPPI Entity TCFD Report which sets out the broader climate-related risks and opportunities for our business and the assets under management by LPPI.

Climate-related risks include adverse impact on the value of assets or income streams arising from transition risk and physical risk. Transition risk is the risk of adverse changes in the value of assets or income streams arising from the nature and speed of mitigation and adaptation to climate change resulting from policies and requirements by governments, influential global bodies, and regulators. Physical risk is the risk of adverse changes in the value of assets or income streams due to severe weather, either acting directly on physical assets or indirectly through business disruption, resource availability, or disruption to supply chains or service providers. Physical risks can be both acute and event driven, and chronic, through longer-term shifts in climate patterns, shifts in climate patterns.

Our evaluation of material climate-related issues for the Fund has included reviewing insights from models which frame risks and opportunities through the lens of physical and transitional hazards over time, for example the Shared Socioeconomic Pathways models used by the Intergovernmental Panel on Climate Change (IPCC).

The table below summarises the climaterelated risks and opportunities we have identified for the Fund over the short, medium, and long term. Our approach to identifying climate-related risks and opportunities is based on categories defined by the TCFD Recommendations and Recommended Disclosures and includes risks inherent in the Fund. We have also provided illustrative risk impacts to explain how these risks could potentially materialise and the impacts through increased costs, reduced valuations, write-offs, and the early retirement of existing assets. The final column describes the potential financial impacts to the Fund if the risks were to materialise.

Our short-term horizon looks at a threeyear period, our medium-term horizon looks forward up to 10 years, and our longterm horizon stretches to 2050. We have disclosed the primary timeframe within which we expect the risk could potentially materialise as many of these risks can be relevant to the short-, medium-, and longterm time horizons. GLIL Infrastructure LLP
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### Scenario analysis

#### Risks

Category	Description	Illustrative impacts	Primary timeframe	Impact on the Fund
Transition: Technology	Changes in technology, obsolescence, or new technology failure	Lower customer demand, greater operating costs, and higher investment requirements	Medium term	Lower returns on capital and increased costs
Transition: Policy and legal	Changes in laws, regulations, or policy guidance	Carbon pricing regulation, capping supply and use of resource, enhanced emissions reporting obligations	Short term	Lower returns on capital and potential asset
		Increased exposure to environmental litigation	Long term	write-offs
Transition: Changing demand for and supply of		Lower customer demand due to reputation of the investee company	Short term	Lower returns on capital
reputation	property	Reduced customer demand in favour of more energy efficient assets	Medium term	
Physical: Operational	Acute and chronic climate impact on physical operations	Lower production and reduced revenues, increased insurance premiums and increased capital costs due to need to replace damaged/unsuitable assets	Long term	Lower returns on capital and potential asset write-offs
		Increased capital costs, higher energy costs and asset write-offs/impairments, amongst other impacts, for corporates	Long term	

#### **Opportunities**

Category	Description	Illustrative impacts	Primary timeframe	Impact on the Fund
Products and services	Increased requirement for renewable energy generation	The potential performance of assets could exceed expectations creating further opportunity for GLIL and increasing revenues	Medium term	Increased returns on capital
Markets	Access to new and emerging markets	Opportunities that arise from markets impacted by the positive developments in climate adaptation increasing revenues	Medium term	Increased returns on capital

Our approach to climate change scenario analysis and our reflections on the practical challenges it presents are discussed in the LPPI Entity TCFD Report. We consider climate scenario analysis a valuable tool in prospect but recognise complexity, nascency and data gaps as market wide challenges needing to be overcome. To be truly useful, scenario analysis tools are needed which emerge actionable insights on portfolio risks and opportunities. We are continuing to develop both our thinking and practice in this area.

Our efforts to date have focussed on evaluating how the Fund's value may be affected by sectoral and geographical exposures. Whilst we have also calculated a portfolio climate value-at-risk (CVaR) metric, and recognise its potential for framing our views on climate-related risks, it is not without limitations. For instance, CVaR relies on assumptions about future climate scenarios and their impact on asset valuations. If these assumptions prove to be inaccurate, this will almost certainly misrepresent risk. Additionally, CVaR primarily considers long-term climate risks creating misalignment with investor needs for insights over shorter horizons (i.e. market fluctuations due to climate events).

These limitations prompt our decision not to disclose this metric until we have fully assessed its usefulness. We will continue to explore how scenario analysis models handle the complexity of factors through which the impact of climate change will materialise and to seek insights and prompts which are insightful for strategic and tactical decision-making.

In the meantime, reflecting FCA guidance, we have assessed whether the Fund has concentrated or high exposure to carbon intensive sectors. We used the Global Industry Classification Standard (GICS) system, which is widely used by finance firms and covers 11 economic sectors, to designate the carbon intensive sectors. For the purposes of our assessment Energy, Utilities, and Materials are designated carbon intensive sectors, and a high or concentrated exposure is when the Fund has an exposure exceeding 15% for that respective sector. In the reporting period, the Fund did not have a high or concentrated exposure to carbon intensive sectors.

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### 3. Risk Management

We describe LPPI's processes for identifying, assessing, and managing climate-related risks in the LPPI Entity TCFD Report. Processes specific to the Fund are outlined below.

### Identifying and assessing climate-related risks

The identification and assessment of climate-related risks is informed by a sectoral framing which considers how individual assets are exposed to physical and transition risk through their location, asset base, market position, area of activity, operating environment, and regulatory setting. Analysis is first undertaken as part of the underwriting process and forms part of both the proposal submitted to the GLIL Investment Committee for decisionmaking on capital deployment and the asset management plan developed for the asset. Post acquisition, climate change risk forms part of the ongoing monitoring and asset management undertaken by the Investment Team with responsibility for identifying and reporting changes to the risks identified in the asset management plan residing with the dedicated asset lead.

#### Managing climate-related risks

The Investment Team is responsible for identifying and addressing climate-related risks as part of ongoing asset management. Regular dialogue with investee company boards, operators, and management teams is a direct source of information and a route for posing questions, gathering information, and evaluating how companies are positioned. Considerations will include how they are approaching the identification of climate-related risks for the business, including collecting data, tracking metrics, creating plans, and setting targets, as well as how responsibilities for climate-related considerations are located, delegated, monitored, and managed as part of corporate governance arrangements.

The Fund seeks strong governance rights wherever possible ideally through representation on investee company boards. As required, these rights are used to guide portfolio companies in a direction consistent with the Fund's objective to generate strong risk adjusted returns on a sustainable basis by addressing material ESG considerations, operate as responsible businesses, retain their social licence to operate and transition towards net zero emissions through planning for the progressive decarbonisation of their operations and supply chains by 2050. We encourage boards to appoint members with recognised expertise and the experience to both aid in navigating sustainability and ESG challenges and increase the probability that climate-related risks will be properly addressed.



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## 4. Metrics and Targets

A range of metrics are used to assist the assessment of climate-related risks and opportunities for individual investee companies in the Fund. Investee companies are at different levels of maturity in their measurement, monitoring and reporting activities and work is ongoing to encourage improvements in coverage, quality, and disclosure.

Carbon emissions accounting by privately owned companies is less evolved than in publicly owned counterparties and is yet to become a universally recognised requirement for firms despite investor expectations being increasingly communicated through engagement with regulators, companies, and data providers.



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### Carbon footprint

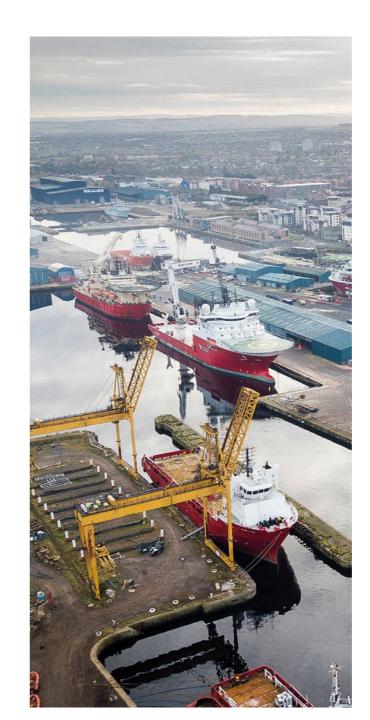
The metrics in this report reflect total emissions and emissions intensity (carbon footprint) based on estimated data, which offers a higher level of portfolio coverage than reported data where material gaps persist. Data is as of 31 December 2022 reflecting the financed emissions associated with the investments.

We are working with our portfolio companies to improve upon their current disclosures as a key aspect of expanded risk management capabilities and to better support informed decision-making and asset management around climate related risks.

Metrics	Scope	Unit of Measurement	31/12/2022	Coverage (estimated)
Total Carbon Emissions	Scope 1	tCO <sub>2</sub> e	153,520.7	98.2%
	Scope 2	tCO <sub>2</sub> e	27,947.5	98.2%
	Scope 3	tCO <sub>2</sub> e	223,981.7	98.2%
	Scope 1 & 2	tCO <sub>2</sub> e	181,468.2	98.2%
	Scope 1, 2 & 3	tCO <sub>2</sub> e	405,449.9	98.2%
Total Carbon Footprint	Scope 1 & 2	tCO <sub>2</sub> e/\$m invested	68.8	98.2%
	Scope 1, 2 & 3	tCO <sub>2</sub> e/\$m invested	153.8	98.2%
Weighted Average Carbon Intensity	Scope 1 & 2	tCO <sub>2</sub> e/\$m revenue	206.0	98.2%
	Scope 1, 2 & 3	tCO <sub>2</sub> e/\$m revenue	460.3	98.2%

**Note:** Within the reporting period, two GLIL assets were under construction and not included in portfolio emissions metrics calculation.

### **Targets**



The Fund's ESG Policy sets an ambition to progressively transition portfolio companies into alignment with net zero by 2050. This will involve the GLIL Executive Committee approving a high-level net zero framework for evaluating the alignment of existing and potential investments with a net zero future, which aims to include climate-related risks. Setting targets for net zero is consistent with the mitigation of climate-related risks within the portfolio.

As an open-ended fund with a changing portfolio of private companies, it is challenging to establish a baseline at portfolio level. However, GLIL already works directly with companies to devise and implement carbon reduction plans focussed on emissions efficiency and transitioning towards net zero at an asset level. We expect to incorporate an appropriate framework to quantify, monitor and demonstrate the effect of net zero target setting and the status of alignment at portfolio level as asset level disclosures improve within the industry. The guidance we will be implementing is the IIGCC's Net Zero Framework for infrastructure assets.

# Appendix

### **Carbon emissions metrics explained**

We use the following metrics to measure the collective carbon impact of the Fund's holdings, calculated according to TCFD standards, which in turn are based on the internationally accepted GHG Protocol:

Metric	TCFD definition, based on GHG Protocol
Scope 1	Direct emissions from owned or controlled sources, for example from combustion in vehicles or boilers. Refrigerants are also included in Scope 1.
Scope 2	Indirect emissions from the generation of purchased energy, this can be taken from the grid emissions or specific energy tariff intensity.
Scope 3	All indirect emissions (not included in Scope 2) that occur in the value chain of the reporting company, including both upstream and downstream emissions. GHG Protocol's Scope 3 scheme contains 15 sources of emissions.
Total carbon emissions	Total GHG emissions associated with the portfolio, expressed in tons $\mathrm{CO}_2\mathrm{e}$ .
Total Carbon Footprint	Total GHG emissions for a portfolio normalised by the market value of the portfolio, expressed in tons CO <sub>2</sub> e / Millions of local currencies invested.
Weighted average carbon intensity (WACI)	Portfolio's exposure to carbon-intensive companies, expressed in tons CO <sub>2</sub> e/ million revenue (local currency).
Portfolio alignment metric - net zero or Paris aligned	Percentage of their total assets with declared net zero or Paris aligned targets. Only top-level figure for whole fund.
Climate value-at-risk (CVaR)	The Climate VaR is a forward-looking financial quantification of climate risk in an investment portfolio. It measures the potential future loss a portfolio may experience in a given time horizon, at a particular probability.



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### Glossary

#### **AUM**

Assets under management.

#### Baselining

Establishing the starting point against which targets will be set and progress measured.

#### Benchmark-relative approach

Uses the emissions of a comparator benchmark at a point in time to reference an emissions reduction target against and measure progress.

#### **CDP**

CDP (previously the Carbon Disclosure Project). <u>Visit the website.</u>

#### **EVIC**

Enterprise Value including Cash.

#### **FCA**

Financial Conduct Authority. Regulates financial services firms and financial markets in the UK.

#### Financed emissions

The emissions associated with our assets under management based on attributing a share of the total emissions produced by underlying companies in proportion to the size of the investment we hold.

#### **GHG**

Greenhouse Gas emissions.

#### **IIGCC**

Institutional Investors Group on Climate Change.

#### Investment universe

A selection of assets which reflect an investable universe, generally grouped based on the preferences of an investment strategy in terms of, for example, sector, industry, or regional exposure.

#### **IPCC**

Intergovernmental Panel on Climate Change IPCC Special Report on the impacts of global warming of 1.5°C. MSCI All Country World Index (ACWI) A stock index designed to track broad global equity market performance. The LPPI Global Equities Fund's comparator benchmark.

#### ITR

Implied Temperature Rise.

#### **IPV**

Investment Pooling Vehicle.

#### NACE

A statistical classification in use within the European Community. NZAM Net Zero Asset Manager Commitment. NZIF Net Zero Investment Framework.

#### Net zero

Achieving an overall balance between man-made emissions (GHG) produced and those taken out of the atmosphere, in order to neutralise the impact of any source of residual emissions that remains unfeasible to be eliminated by permanently removing an equivalent amount of atmospheric carbon dioxide.

#### NZAM

Net Zero Asset Managers initiative. An international group of asset managers committed to supporting the goal of net zero greenhouse gas emissions by 2050 or sooner, in line with global efforts to limit warming to 1.5 Degrees Celsius; and to supporting investing aligned with net zero emissions by 2050 or sooner.

#### NGFS

Network for Greening the Financial System. A group of central banks and supervisors willing, on a voluntary basis, to share best practices and contribute to the development of environment and climate risk management in the financial sector and to mobilise mainstream finance to support the transition toward a sustainable economy.

#### **Paris Agreement**

United Nations agreement which includes commitments from all countries to reduce their emissions and work together to adapt to the impacts of climate change and calls on countries to strengthen their commitments over time. The Agreement provides a pathway for developed nations to assist developing nations in their climate mitigation and adaptation efforts while creating a framework for the transparent monitoring and reporting of countries' climate goals.

#### **PCAF**

The Partnerships for Carbon Accounting Financials.

#### Portfolio self-decarbonisation

Using portfolio emissions at a point in time to reference an emissions reduction target against and measure progress.

#### SBTi

The Science Based Targets initiative defines and promotes best practice in science-based target setting. Offering a range of target-setting resources and guidance, the SBTi independently assesses and approves companies' targets in line with its criteria.

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#### **Scope 1, 2 and 3**

Scope 1, 2 and 3 emissions are a way of categorizing business emissions, accounting for both direct and indirect emitted GHGs. In more details:

- Scope 1 emissions are GHGs released directly from owned or controlled sources of the company.
- Scope 2 emissions are indirect GHGs released from the energy purchased by the company (generation of electricity, heat or steam purchased).
- Scope 3 emissions are indirect GHGs released by the value chain of the company, excluding the Scope 1 and 2 emissions, for both upstream and downstream emissions.

#### **Stewardship**

The responsible allocation, management and oversight of capital to create long-term value for clients and beneficiaries leading to sustainable benefits for the economy, the environment and society (UK Stewardship Code 2020).

#### **Total carbon emissions**

The sum of all the emissions in the portfolio based on the investor's ownership share. Calculated as follows:

$$\sum_{i}^{i} \left( \frac{\textit{Current value of investment}_{i}}{\textit{Issuer's market capitalization}_{i}} \times \frac{\textit{Issuer's Scope 1 and Scope 2 GHG emissions}_{i}}{\textit{Scope 2 GHG emissions}_{i}} \right)$$

#### TPI

Transition Pathway Initiative. Visit the website.

#### Universal global benchmark

A benchmark stock index which is representative of the global economy, for example the MSCI All Country World Index.

Weighted Average Carbon Intensity (WACI)
Weighted Average Carbon Intensity is the
measure of a portfolio's exposure to carbon-

measure of a portfolio's exposure to carbonintensive companies, expressed as tCO<sub>2</sub>e/\$m company revenue. Calculated as follows:

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\sum\nolimits_{n}^{i} \left( \frac{\textit{Current value of investment}_{i}}{\textit{Current portfolio value}} \times \frac{\textit{Issuer's Scope 1 and}}{\textit{Issuer's $M$ revenue}_{i}} \right)
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