

# PGIM JENNISON CARBON SOLUTIONS EQUITY FUND

Rewriting the decarbonisation rulebook

Raj Shant Managing Director, Jennison Associates September 2023



For Professional Investors only. All investments involve risk, including the possible loss of capital. Not for further distribution. PI9025 3121708 Expiration Date: 31 December 2024



### A LOW CARBON FUTURE NEEDS WIDER CONTRIBUTIONS

Significant overlooked opportunities lie below the visible tip of typically-viewed carbon solutions

# Early stages of global energy transition creates untapped growth potential

- Requirement spans diverse industries and sub-segments, beyond clean energy
- Investing early in underappreciated contributors creates strong alpha opportunities



The Carbon Market Is Much Larger Than Many May Believe

Source: Jennison. There is no guarantee these objectives will be met. The views expressed herein are those of Jennison investment professionals at the time the comments were made. They may not be reflective of their current opinions, are subject to change without prior notice, and should not be considered investment advice. Addressable market size based on <u>Princeton Net Zero America Report, October 2021</u>.



### A HOLISTIC, ALPHA-BASED APPROACH TO CARBON SOLUTIONS

The pursuit of carbon reduction goals is altering industries and creating diverse but underappreciated opportunities



#### **Broad Decarbonisation Themes**

Unconstrained, benchmark-agnostic approach including carbon capture and storage, electrification, energy efficiency, renewables, infrastructure modernisation, and fuel decarbonisation



#### **Expanded emissions scope**

The fund considers emissions avoided (Scope 4) that overshadow operational emissions (Scopes 1-3) significantly. This analysis is crucial to the global emissions decline yet often overlooked by investors



#### **Clear Commitment to the Goal**

80% of our holdings must demonstrate at least 30% of CAPEX, revenue, or EBITDA must be used toward or stem from reducing global carbon emissions



#### Seasoned Multidisciplinary Team

Led by three multidisciplinary portfolio managers with a 20+ year track record of investing in related fields in the natural resources, global utilities & renewable energy, and infrastructure sectors through a forward-looking bottom-up approach

Source: Jennison. There is no guarantee these objectives will be met. The views expressed herein are those of Jennison investment professionals at the time the comments were made. They may not be reflective of their current opinions, are subject to change without prior notice, and should not be considered investment advice.



### **OUR FRAMEWORK FOR UNDERSTANDING THE OPPORTUNITY**

We believe the companies best-positioned for the new decarbonisation economy fall into three categories

### Three pillars of decarbonisation



### A wide spectrum of opportunities



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### **SCOPE 4: A BIG UNTAPPED PART OF THE DECARBONISATION JOURNEY**

Evolving opportunity set poised be larger than Scopes 1, 2 and 3 combined



Source: PGIM, for illustrative purposes only. Opinions expressed as of September 2023 and subject to change without notice.



### **OUR APPROACH TARGETS AVOIDANCE NOT JUST REDUCTION**

Carbon-counting strategies are preoccupied with reporting low or falling Scopes 1, 2 and 3 emissions



#### Avoided emissions happen outside of a product life cycle or value chain, and have significant impact

There is no guarantee these objectives will be met. For illustrative purposes only.

Source: Company Reports, Thunder Said Energy, US EPA, and Jennison, August 2022. Estimated only supply-side emissions, or almost 60% of the portfolio, to avoid double counting and to improve accuracy.



# CASE STUDY: AMERESCO

Carbon avoided has a significant ESG impact

#### **Investment Thesis**

- "One-stop shop" clean energy services provider, developer, owner and operator.
- Design, develop and construct clean energy systems that enable customers to meet emissions reduction goals and reduce costs in the process.
- Attractive multi-year revenue outlook driven by strong business momentum with a robust project backlog and energy asset pipeline.
- We believe that their value proposition will continue to resonate as higher energy prices lower the payback period on energy efficiency projects.

The company is selected based on their business model to contribution to carbon reduction or avoid carbon. Any reference to a specific company or security is for illustrative purposes and does not constitute a recommendation to buy, sell, hold or directly invest in the company or its securities, or an offer or invitation to anyone to invest in any fund.

# THE SCALE OF CARBON AVOIDED CAN DWARF OTHER EMISSION MEASURES

**From Energy Saving Retrofits to Microgrid Power Systems** Aggregate Metric Tons of CO<sub>2</sub> Avoided Per Year



Source: Jennison and Ameresco. Data estimates are based on Ameresco assets owned and operating as of 31/12/22 and customer projects as of 31/12/21. The annual carbon impact is calculated with these Ameresco estimates using the standards of the US EPA Greenhouse Gas Equivalencies calculator. For illustrative purposes only.



# CASE STUDY: CHENIERE ENERGY

Natural gas serves as a key coal replacement

#### **Investment Thesis**

- Provides countries access to clean, secure and affordable energy from the United States, helping reduce carbon emissions worldwide.
- Well-positioned in the tight global liquid natural gas markets and historically high natural gas price environment.
- Benefits from first-mover advantage and attractive fixed fee "take-or-pay" contract revenues, with roughly 80% of its capacity under long-term contracts.
- As global demand remains strong, we believe a future gap in supply & demand will provide tailwinds for Cheniere over the next several years.

The company is selected because it is the largest holding by weight as of 30/6/23. Holdings subject to change without notice. Any reference to a specific company or security is for illustrative purposes and does not constitute a recommendation to buy, sell, hold or directly invest in the company or its securities, or an offer or invitation to anyone to invest in any fund.

#### For Professional Investors only. All investments involve risk, including possible loss of capital.

### A KEY TRANSITION SOLUTION IN THE FOSSIL FUEL SUPPLY CHAIN

**Natural Gas and LNG Are Among The Cleanest Fossil Fuels** Average Emissions Factor by Fuel (gCO<sub>2</sub>e/MJ)



Source: <u>The impact of decarbonization on the gas and LNG industry</u>, McKinsey & Company, June 2021. Grams of carbon-dioxide equivalent per megajoule. Precombustion figures are estimates based on weighted average GHG emissions. Based on Nature; Sustainability; UK Government and US Department of Energy research.



# CASE STUDY: TRANE TECHNOLOGY

Carbon avoided has a significant ESG impact

#### **Investment Thesis**

- An innovative climate control leader in temperature-controlled transport solutions, HVAC and smart thermostat systems with commercial and residential applications
- Demand-driven mindset: committed to reducing 1 gigaton of carbon emissions from their customers' footprint by 2030
- 38% of Trane's revenue was estimated as clean revenue in 2022, replacing old and inefficient refrigerants to decrease downstream customer emissions
- Attractive sales growth outlook, driven by robust demand for commercial heating, ventilation and air-conditioning solutions

The company is selected based on their business model to contribution to carbon reduction or avoid carbon. Any reference to a specific company or security is for illustrative purposes and does not constitute a recommendation to buy, sell, hold or directly invest in the company or its securities, or an offer or invitation to anyone to invest in any fund.

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### CIRCULAR STRATEGIES DRIVE PRODUCT INNOVATION ACROSS SECTORS

From Linear "Take-Make-Waste" to Circularity + Less Waste Using circularity within the supply chain for energy-efficient products



Source: Trane Technologies 2022 ESG Report. For illustrative purposes only.



### **INVESTMENT PROCESS SUMMARY**

Analysis of a company's fundamentals drives our investment decisions



The views expressed herein are those of Jennison investment professionals at the time the comments were made. They may not be reflective of their current opinions, are subject to change without prior notice, and should not be considered investment advice. Characteristics are intended to provide a general illustration of the investment strategy and considerations used by Jennison in managing that strategy during normal market conditions and may change over time. Characteristics do not represent actual portfolio guidelines, which are negotiated with clients. See Portfolio Notes in the Appendix for index definition.



### CONTACT US BENELUX & NORDICS



#### **RAJ SHANT**

#### Managing Director, Jennison Associates

Raj Shant is a client portfolio manager and managing director who supports Jennison's distribution and client efforts across Europe, the Middle East and Africa. Raj joined Jennison in 2019. Prior to Jennison, he spent 17 years with Newton Investment Management, where he began as head of European equities and then became a global equity portfolio manager and portfolio specialist. In his final year at Newton, he was also head of sustainable investing. Previously, Raj spent five years with Credit Suisse Asset Management, most recently as head of European equities. He began his career in investment banking before moving to become an investment analyst and portfolio manager. Raj earned a BA with honours in economics and management from Leeds University.



#### YVO VAN DER POL Head of Benelux & Nordics, PGIM Investments Mobile: +31 (0)682 057 678 | yvo.vanderpol@pgim.com

Yvo van der Pol is responsible for intermediary distribution development with clients in the Benelux and Nordic region. Yvo develops and manages client relationships with banks, wealth managers, family offices, and insurance companies through which PGIM's investment strategies are distributed. His responsibilities include working with head office and research teams to identify partnership opportunities and to deliver PGIM Investments' asset management capabilities to prospects and clients.



# APPENDIX



### PGIM JENNISON CARBON SOLUTIONS

#### **Investment Objective**

Seek long-term capital appreciation by investing in opportunities related to the reduction of global carbon emissions and aid in the transition to a low carbon economy

Strategy inception 1 June 2021	UCITS fund inception 10 August 2023	Universe Global multi-cap
Portfolio Manager avg. experience <b>25 years</b>	Typical portfolio <b>45-65</b> companies	Typical Active Share 97%

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#### **Broader Approach**

- Unhindered by restrictive metrics: Unconstrained by style, market cap, labelling requirements, sector or industry as investment opportunities evolve as energy transition shifts over time
- Scope 4 emissions avoided: Goes beyond reported emissions to consider Scope 4 or emissions avoided, which is critical to achieving a low carbon future.

#### **Our differentiators**

- ✓ Long-term, alpha-driven strategy
- ✓ Scope 1, 2, 3 and 4
- Likely higher weighted average carbon intensity than benchmark
- **x** Paris-aligned
- × Net Zero metrics
- **x** Focus on companies' own emissions

There is no guarantee that targets will be achieved. Past performance does not guarantee future results. Source: Jennison Associates MSCI Characteristics are intended to provide a general illustration of the investme

Source: Jennison Associates, MSCI. Characteristics are intended to provide a general illustration of the investment strategy and considerations used by Jennison in managing that strategy during normal market conditions and may change over time. Characteristics do not represent actual portfolio guidelines. See Portfolio Notes in Important Information.



## **EXPERIENCED MULTI-DISCIPLINARY** TEAM

#### Leveraging Intellectual Capital Across Multiple Specialists



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#### 3 PORTFOLIO MANAGERS(AVERAGE EXPERIENCE: 25 YEARS)

**Bobby Edemeka** 

Senior Portfolio Manager

26 years of experience



Neil Brown, CFA Senior Portfolio Manager 26 years of experience

#### **9 RESEARCH ANALYSTS**



Brannon P. Cook Infrastructure, transport, industrials





Stephen J. Maresca, CFA

Midstream Infrastructure

Christopher Pelinsky Consumer/Autos

Eric Sartorius, CFA

Technology



Owuraka Koney, CFA Industrials, Consumer



Insoo Kim, CFA U.S. Utilities



Infrastructure, transport, industrials



Albert Kwok, CFA **Emerging Markets** 

#### 4 ESG SPECIALISTS



Michael LaBella Head of Sustainability

Nicholas Iraci

ESG Research



Abigail Panitz ESG Research



Jennifer Sero ESG Research



**Jay Saunders** Senior Portfolio Manager 23 years of experience



### **WHY JENNISON**

#### A leading active fundamental manager since 1969

#### AuM by investment capabilities



Source: Jennison Associates as of 30/6/23. Equity customized solutions compose \$2B of the firm's AUM. Blended portfolios are shown in their respective underlying capabilities. Due to rounding, individual product assets may not sum to total AUM.

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 Active management of ~\$5 billion focused on utilities, natural resources, and infrastructure **FUNDAMENTAL** • Extensive fundamental experience allow for deep coverage of underrepresented/mispriced sectors in the carbon market • An ability and commitment to adapt as ESG-related policies, **FORWARD**practices and prices change Investment considerations not just based on revenue but also ٠ **APPROACH** on forward-looking capital expenditures and earnings • 80+ investment professionals and institutional-quality **DEPTH AND** investing infrastructure **BREADTH OF** 

ACTIVE

MANAGER

LOOKING

RESOURCES

 Long-term track record of running portfolios in related fields and uncovering companies at nascent stages of growth



There is no guarantee that targets will be achieved. As of 31/3/23. Source: Jennison. There is no guarantee these objectives will be met. The views expressed herein are those of Jennison investment professionals at the time the comments were made. They may not be reflective of their current opinions, are subject to change without prior notice, and should not be considered investment advice.



### **PORTFOLIO HOLDINGS**

PGIM Jennison Carbon Solutions Equity as of 30 June 2023

SUPPLY	
NextEra Energy	3.4
TotalEnergies – ADR	3.2
Equinor – ADR	2.5
Constellation Energy	2.4
Iberdrola	2.4
EDP Renovaveis	2.2
Darling Ingredients	1.9
SSE	1.8
Orsted	1.5
Drax	1.5
NextEra Energy Partners LP	1.4
Enel	1.3
Sunnova Energy International	1.2
CenterPoint Energy	1.2
Neste	1.1
PG&E	1.0
ReNew Energy Global	0.9
Tidewater Renewables	0.4

DEMAND	%
Trane Technologies	3.4
Johnson Controls International	3.4
Linde	2.8
Schneider Electric	2.0
Mueller Water Products	1.3
Universal Display	1.2
Itron	1.2
Eaton	1.1
Hexcel	1.1
Smart Metering Systems	0.4

ENABLE	%
Cheniere Energy	3.9
ON Semiconductor	3.3
Prysmian	3.2
ERO Copper	2.7
SolarEdge Technologies	2.4
Tesla	2.4
Aptiv	2.3
Targa Resources	2.1
Albemarle	2.1
Ameresco	1.9
Enphase Energy	1.9
Array Technologies	1.6
Williams Companies	1.6
Alfen	1.6
NEXTracker	1.5
FREYR Battery	1.5
Livent	1.4
Vestas Wind Systems	1.4
Chart Industries	1.3
New Fortress Energy	1.2
MasTec	1.2
NXP Semiconductors	1.1
Sociedad Quimica y Minera de Chile – ADR	1.1
First Quantum Minerals	0.8
Hannon Armstrong Sustainable Infrastructure	0.5
Umicore	0.5
Ivanhoe Mines	0.5

As of 30/6/23. Source: Jennison Associates.

Information is supplemental to the Carbon Solutions Equity Composite presentation. Please visit https://www.jennison.com/gips-carbon-solutions-composite for the Carbon Solutions Equity Composite presentation. Source: Jennison. Names in bolded blue represent a top ten holdings position. The above classifications were created by Jennison professionals to illustrate allocations across the various categories of Carbon Solutions investments. See Portfolio Notes in the Appendix for holdings information.



### **PORTFOLIO HIGHLIGHTS**

#### PGIM JENNISION CARBON SOLUTIONS EQUITY (AS OF 30 JUNE 2023)

#### **Portfolio Statistics**

	Portfolio	MSCI ACWI IMI
EPS Growth 5Y Historical	24%	15%
EPS Growth 3-5Y Estimated	17%	10%
2023 P/E Estimate	15	16
Weighted Average Market Cap	\$60.1B	\$370.5B
No. of holdings	55	
Top 10	31.8%	
Active Share	97%	

#### **Geographic Allocation (%)**





Information is supplemental to the Carbon Solutions Equity Composite presentation. Please visit <u>https://www.jennison.com/gips-carbon-solutions-composite</u> for the Carbon Solutions Equity Composite presentation. Source: Jennison, FactSet, and MSCI. EPS Historical Growth is the average annualized earnings per share growth for the holdings within the portfolio or the index as of the date shown and does not reflect historical EPS for the portfolio itself. **Characteristics are intended to provide a general illustration of the investment strategy and considerations used by Jennison in managing that strategy during normal market conditions and may change over time. Characteristics do not represent actual portfolio guidelines. Regional breakdowns are defined by Jennison using Bloomberg country of risk classifications. Certain holdings have been reclassified by Jennison investment professionals. Bloomberg does not endorse Jennison's country and region classification process. While the Benchmark (MSCI All Country World IMI Index) does not include Frontier Market exposure within Jennison's Carbon Solutions strategy, if any, is included in the Emerging Markets breakdown. See Portfolio Notes in the Appendix for index definitions, region descriptions, and holdings information.** 



### PERFORMANCE

PGIM Jennison Carbon Solutions Equity Strategy Composite (As of 30 June 2023)

Returns (%)	2Q23	YTD	1 Year	Annualised since Inception
Carbon Solutions Equity Composite (Gross)	2.3	3.6	9.0	-1.0
Carbon Solutions Equity Composite (Net)	2.1	3.2	8.2	-1.7
MSCI All Country World IMI Index (Net)	5.9	13.2	16.1	-0.9
Excess Returns (Net)	-3.8	-10.1	-7.9	-0.8

Inception date of Carbon Solutions Equity Composite: 1/6/21. Source: Jennison's actual advisory fees and transaction costs. Net of fee performance is presented net of Jennison's actual advisory fees and transaction costs. Performance results are calculated in US dollars and reflect reinvestment of dividends and other earnings. Periods greater than 1 year are annualized unless otherwise noted. The Carbon Solutions Exclusions were applied to the strategy beginning in August 2022. Visit <a href="https://www.jennison.com/gips-carbon-solutions-composite">https://www.jennison.com/gips-carbon-solutions Exclusions were applied to the strategy beginning in August 2022. Visit <a href="https://www.jennison.com/gips-carbon-solutions-composite">https://www.jennison.com/gips-carbon-solutions Exclusions were applied to the strategy beginning in August 2022. Visit <a href="https://www.jennison.com/gips-carbon-solutions-composite">https://www.jennison.com/gips-carbon-solutions Exclusions were applied to the strategy beginning in August 2022. Visit <a href="https://www.jennison.com/gips-carbon-solutions-composite">https://www.jennison.com/gips-carbon-solutions Exclusions were applied to the strategy beginning in August 2022. Visit <a href="https://www.jennison.com/gips-carbon-solutions-composite">https://www.jennison.com/gips-carbon-solutions Exclusions were applied to the strategy beginning in August 2022. Visit <a href="https://www.jennison.com/gips-carbon-solutions">https://www.jennison.com/gips-carbon-solutions Exclusions were applied to the strategy beginning in August 2022. Visit <a href="https://www.jennison.com/gips-carbon-solutions">https://www.jennison.com/gips-carbon-solutions</a>. Performance information, index definitions, and term definitions. Past performance does not guarantee future results.



### JENNISON'S BREADTH OF GLOBAL CAPABILITIES

PGIM JENNISON ACTIVE EQUITY UCITS FUNDS

	Carbon Solutions	Global Equity Opportunities	U.S. Growth	Emerging Market Equity	NextGeneration Opportunities	
Strategy	Long-term alpha strategy investing in companies that aid in the global energy transition	Unconstrained global large-cap strategy seeking diverse sources of growth	High conviction U.S. large-cap growth strategy seeking long- term growth potential	Long-term alpha strategy capitalising on growth opportunities in emerging markets	Unconstrained small and mid-cap strategy focused on nascent growers	
Fund Inception (I A USD)	10 August 2023	20 March 2017	19 October 2016	30 November 2016	31 August 2021	
Strategy AuM	n/a	\$6.2b	\$70.9b	\$0.7b	\$3.5b	
Fund AuM	\$20m	\$660m	\$96m	\$73m	\$16m	
Regional Focus	Global	Global	U.S.	Emerging Markets	Global	
Benchmark	MSCI ACWI IMI	MSCI All Country World Index	Russell 1000 Growth® Index	MSCI Emerging Markets Index	MSCI All Country World SMID Cap Index	
SFDR Classification	Article 8	Article 8	Article 8	Article 8	Article 8	
Typical Holdings	45-65	35-45	45-70	35-45	30-40	

Fund AuM as of 31 August 2023, except for Carbon Solutions, as of fund inception date. Strategy AuM as of 30 June 2023. Source: PGIM, Inc. **Target objectives cannot be guaranteed. Past performance is not a guarantee of future results**. Not all share classes are available in all jurisdictions. Please contact your relationship manager for available share classes. An investor must read the Company's Prospectus (the "Prospectus"), Supplement (the "Supplement") and Key Investor Information Document (the "KIID") (collectively the "Fund Documents") before making a decision to invest in the fund. The Fund Documents are available at: <u>www.pgimfunds.com</u>. **Investing in this Fund puts your capital at risk. You may lose some or all of your investment**.



### **KEY FACTS**

PGIM Jennison Carbon Solutions Equity Fund

Investment Manager	PGIM, Inc
Fund Structure & Domicile	Ireland domiciled UCITS Fund; a sub-fund of PGIM Funds plc (the "Company")
Objective	The Fund seeks long-term capital appreciation by investing in opportunities related to the reduction of global carbon emissions and aid in the transition to a low carbon economy
Benchmark	MSCI All Country World IMI Index (USD)
Inception Date (USD I Acc)	10 <sup>th</sup> August 2023
Share Classes <sup>1</sup>	I, P, W, A
Share Class Currencies	EUR, GBP, USD

ISIN	Currency Share Class <sup>1</sup>	Management Fee (%) <sup>2</sup>	Ongoing Charges (%) <sup>2</sup>
IE000GULVEY8	EUR I Acc	0.75	0.85
IE000GM9N531	GBP I Acc	0.75	0.85
IE000XS6Z773	GBP I Dist (Q)	0.75	0.85
IE0007AU3IW8	GBP W Acc	0.40	0.45
IE000WQGMFL6	USD I Acc	0.75	0.85

Jennison Associates has determined that the Fund is classified as an Article 6 fund for the purposes of SFDR. There can be no guarantee this objective will be met. <sup>1</sup> Not all share classes are available in all jurisdictions. Please contact your relationship manager for available share classes. <sup>2</sup> Charges vary based on all share classes. Refer to the supplement and KIID for additional information, including latest pricing. Investing in this Fund puts your capital at risk. You may lose some or all of your investment. An investor must read the Company's latest Prospectus (the "Prospectus"), Supplement (the "Supplement") and Key Investor Information Document (the "KIID") (collectively the "Fund Documents") before making a decision to invest in the fund. The Fund Documents are available at the following address: www.pgimfunds.com and from the information agents / paying agents as detailed in the notice pages.



## KEY RISKS

PGIM Jennison Carbon Solutions Equity Fund

Risks

An investment in the Fund involves a high degree of risk, including the risk that the entire amount invested may be lost. The Fund is primarily designed to purchase certain investments, which will introduce significant risk to the Fund, including asset performance, price volatility, administrative risk and counterparty risk. No guarantee or representation is made that any Fund's investment program will be successful, or that such Fund's returns will exhibit low correlation with an investor's traditional securities portfolio.

The Fund may be deemed to be a speculative investment and is not intended as a complete investment program. Investment in the Fund is suitable only for persons who can bear the economic risk of the loss of their investment and who meet the conditions set forth in the Fund Documents. There can be no assurances that the Fund will achieve its investment objective. Prospective and existing Shareholders should carefully consider the risks involved in an investment in the Fund, including, but not limited to, those discussed in the Fund Documents. Prospective and existing Shareholders should consult their own legal, tax and financial advisors about the risks of an investment in the Fund. Any such risk could have a material adverse effect on the Fund and its Shareholders. The return may increase or decrease as a result of currency fluctuations. The use of financial derivative instruments may result in increased gains or losses within the Fund.

Where an investor's own currency is different from the currency of the Fund, the return on investment may be affected by fluctuations in the currency exchange rate. The NAV of the Fund is calculated on a daily basis and published on the Fund's website at the following address: www.pgimfunds.com.

Currency Risk: The value of investments in the Fund that are designated in a currency other than the base currency for the Fund may rise and fall due to exchange rate fluctuations.

Custodial Risk: Assets which are traded in markets where custodial and/or settlement systems are not fully developed, may be exposed to risk in circumstances where the custodian will have no liability.

Emerging Market Risk: The Fund invests in emerging markets, which may experience political, market, social, regulatory, and/or economic instabilities. These instabilities may reduce the value of the Fund's investments. Growth Style Risk: The Fund's growth style may subject the Fund to above average fluctuations. There is the risk that the growth investment style may be out of favour for a period of time, and when the style is out of favour the Fund may underperform the market in general.

Political Risk: The value of the Fund's investments may be affected by uncertainties such as international policy developments, social instability and changes in government policies. This can result in more pronounced risks where conditions have a particular impact on one or more countries or regions.

Principal Investment Strategies: There are risks associated with the Fund's principal investment strategies, including that because the Fund may invest a large portion of its assets in a single country or region of the world, the Fund's investments may be geographically concentrated, which can result in more pronounced risks based upon **economic conditions that impact one or more countries or regions**.



All non-performance portfolio data provided is based on a representative Jennison Carbon Solutions Equity portfolio. The representative portfolio was selected because it is in the composite and we believe the holdings, characteristics and risk profile are representative of this strategy.

These materials may not take into account all individual client circumstances, objectives or needs. Jennison makes no representations regarding the suitability of any securities, financial instruments or strategies described in these materials for particular clients or prospects.

These materials are not intended as an offer or solicitation with respect to the purchase or sale of any security or other financial instrument or any investment management services. These materials do not constitute investment advice and should not be used as the basis for any investment decision. There is no assurance that any securities discussed herein will remain in an account's portfolio at the time you receive this report or that securities sold have not been repurchased. It should not be assumed that any of the securities transactions or holdings discussed were or will prove to be profitable, or that the investment recommendations or decisions we make in the future will be profitable or will equal the investment performance of the securities discussed herein.

These materials do not purport to provide any legal, tax or accounting advice. In providing these materials, Jennison is not acting as your fiduciary.

#### Portfolio

The MSCI ACWI Investable Market Index (IMI) captures large, mid and small cap representation across 23 Developed Markets (DM) and 27 Emerging Markets (EM) countries. With 8,906 constituents, the index is comprehensive, covering approximately 99% of the global equity investment opportunity set. The MSCI ACWI Low Carbon Target Index is based on the MSCI ACWI Index, its parent index, and includes large and mid-cap stocks across 23 Developed Markets (DM) and 24 Emerging Markets (EM) countries. The Index is a benchmark for investors who wish to manage potential risks associated with the transition to a low carbon economy. The index aims for a tracking error target of 0.3% (30 basis points) while minimizing the carbon exposure. By overweighting companies with low carbon emissions (relative to sales) and those with low potential carbon emissions (per dollar of market capitalization), the index reflects a lower carbon exposure than that of the broad market. It uses MSCI ESG CarbonMetrics data from MSCI ESG Research Inc. The financial indices referenced herein are provided for informational purposes only. When comparing the performance of a manager to its benchmark(s), please note that the manager's holdings and portfolio characteristics may differ from those of the benchmark(s). Additional factors impacting the performance of displayed herein may include portfolio-rebalancing, the timing of cash flows, and differences in volatility, none of which impact the performance of the financial indices. Financial indices requested trade names or trademark/service marks of third parties. References to such trade names or trademark/service marks and data is proprietary and confidential and cannot be redistributed without Jennison's prior consent. Investors cannot directly invest in an index. MSCI information may only be used for your internal use, may not be reproduced or redisseminated in any form and may not be used as a basis for or a component of any financial instruments or products or indices. None of the MSCI information i

Holdings Information: The securities discussed do not represent an account's entire portfolio and in the aggregate may represent only a small percentage of an account's portfolio holdings. Please see Portfolio Holdings page for a complete list of the securities held in the portfolio.

Due to rounding, percentages may not sum to 100% or totals shown. If shown, the cash percentage represents trade date cash and cash equivalents. Certain third party information in this document has been obtained from sources that Jennison believes to be reliable as of the date presented; however, Jennison cannot guarantee the accuracy of such information, assure its completeness, or warrant such information will not be changed. Jennison has no obligation to update any or all such third party information.

GICS Classification: The Global Industry Classification Standard ("GICS") was developed by and is the exclusive property and a service mark of MSCI, Inc. ("MSCI") and Standard & Poor's Financial Services LLC ("S&P") and is licensed for use by Jennison Associates LLC ("as is". As of October 1, 2009, Jennison Associates LLC ("Jennison") does not reclassify securities classified by S&P/MSCI GICS. Only securities not classified by S&P/MSCI GICS will be classified by Jennison. Therefore, this report may include companies that have been classified by S&P/MSCI GICS or classified by Jennison. Companies classified by Jennison are not sponsored by the S&P/MSCI GICS classification system.

Performance results are calculated in US dollars and reflect reinvestment of dividends and other earnings. Due to rounding, calculations based on the returns provided may not result exactly in Excess Returns shown. Excess Return is the additional return generated by the portfolio or composite relative to the market index. Free cash-flow (FCF) represents the cash a company generates after accounting for cash outflows to support operations and maintain its capital assets. Unlike earnings or net income, free cash flow is a measure of profitability that excludes the non-cash expenses of the income statement and includes spending on equipment and assets as well as changes in working capital from the balance sheet.



All non-performance portfolio data provided is based on a representative Jennison Carbon Solutions Equity portfolio. The representative portfolio was selected because it is in the composite and we believe the holdings, characteristics and risk profile are representative of this strategy.

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#### Portfolio

The MSCI ACWI Investable Market Index (IMI) captures large, mid and small cap representation across 23 Developed Markets (DM) and 27 Emerging Markets (EM) countries. With 8,906 constituents, the index is comprehensive, covering approximately 99% of the global equity investment opportunity set. The MSCI ACWI Low Carbon Target Index is based on the MSCI ACWI Index, its parent index, and includes large and mid-cap stocks across 23 Developed Markets (DM) and 24 Emerging Markets (EM) countries. The Index is a benchmark for investors who wish to manage potential risks associated with the transition to a low carbon economy. The index aims for a tracking error target of 0.3% (30 basis points) while minimizing the carbon exposure. By overweighting companies with low carbon emissions (relative to sales) and those with low potential carbon emissions (per dollar of market capitalization), the index reflects a lower carbon exposure than that of the broad market. It uses MSCI ESG CarbonMetrics data from MSCI ESG Research Inc. The financial indices referenced herein are provided for informational purposes only. When comparing the performance of a manager to its benchmark(s), please note that the manager's holdings and portfolio characteristics may differ from those of the benchmark(s). Additional factors impacting the performance displayed herein may include portfolio-rebalancing, the timing of cash flows, and differences in volatility, none of which impact the performance of the financial indices. Financial indices regretered trade names or trademark/service marks of third parties. References to such trade names or trademark/service marks and data is proprietary and confidential and cannot be redistributed without Jennison's prior consent. Investors cannot directly invest in an index. MSCI information may only be used for your internal use, may not be reproduced or redisseminated in any form and may not be used as a basis for or a component of any financial instruments or products or indices. None of the MSCI information is

Holdings Information: The securities discussed do not represent an account's entire portfolio and in the aggregate may represent only a small percentage of an account's portfolio holdings. Please see Portfolio Holdings page for a complete list of the securities held in the portfolio.

Due to rounding, percentages may not sum to 100% or totals shown. If shown, the cash percentage represents trade date cash and cash equivalents. Certain third party information in this document has been obtained from sources that Jennison believes to be reliable as of the date presented; however, Jennison cannot guarantee the accuracy of such information, assure its completeness, or warrant such information will not be changed. Jennison has no obligation to update any or all such third party information.

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Performance results are calculated in US dollars and reflect reinvestment of dividends and other earnings. Due to rounding, calculations based on the returns provided may not result exactly in Excess Returns shown. Excess Return is the additional return generated by the portfolio or composite relative to the market index. Free cash-flow (FCF) represents the cash a company generates after accounting for cash outflows to support operations and maintain its capital assets. Unlike earnings or net income, free cash flow is a measure of profitability that excludes the non-cash expenses of the income statement and includes spending on equipment and assets as well as changes in working capital from the balance sheet.



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Return on Equity (ROE) is a measure of financial performance calculated by dividing net income by shareholders' equity. Because shareholders' equity is equal to a company's assets minus its debt, ROE could be thought of as the return on net assets. ROE is considered a measure of how effectively management is using a company's assets to create profits.

Return on Assets (ROA) is an indicator of how profitable a company is relative to its total assets. ROA gives a manager, investor, or analyst an idea as to how efficient a company's management is at using its assets to generate earnings. Return on assets is displayed as a percentage.

Jennison Regional Definitions: Developed North America includes countries classified by Bloomberg as developed markets in North America. Developed Europe & Middle East includes countries classified by Bloomberg as developed markets in Europe and the Middle East. Developed Asia/Pacific includes countries classified by Bloomberg as developed markets in Asia and Australia. Emerging Markets includes all countries classified by Bloomberg as emerging and frontier markets.

Volatility/Risk is measured by Annualized Standard Deviation. Annualized Standard Deviation is a statistical measure of the degree to which an individual value in a probability distribution tends to vary from the mean of the distribution. The annualized standard deviation shows how far away numbers on a list are from their averages and takes that number and multiplies it by the square root of the frequency. For example, monthly frequency would multiply the standard deviation \* the square root of 12 ( 3.4641). The greater degree of dispersion, the greater degree of risk. Tracking Error is the standard deviation of the difference in monthly returns between the composite and the market index. Hit Rates represent the percent of monthly periods that the composite outperformed the respective benchmark. Beta is used to measure the volatility of a manager relative to the chosen risk market index. Sharpe Ratio is the measure of risk adjusted returns. It is a risk-adjusted measure developed by Professor William F. Sharpe, which measures reward per unit of risk. The higher the Sharpe Ratio, the better. The numerator is the difference between the portfolio's annualized return and the annualized return of the risk-free instrument (T-Bills). The denominator is the portfolio's annualized standard deviation. It is the performance of the portfolio less the performance of the risk-free instrument divided by the standard deviation of the portfolio. Upside Capture is calculated by taking the portfolio's monthly return during periods when the benchmark had a positive return and dividing it by the benchmark return. Downside Capture is a statistical measure of an investment manager's overall performance in down-markets. Downside capture ratios is calculated by taking the portfolio's monthly return during the periods of negative benchmark performance and dividing it by the benchmark return. Correlation is a statistical measure of the degree to which the movements of two variables are related.

The portfolio and MSCI All Country World IMI Index EPS Growth and P/E are based on I/B/E/S estimates. Market Capitalization ranges are determined by Jennison investment professionals. Certain information contained in this product or report is derived by Jennison in part from MSCI's MSCI All Country World IMI Index (the "Index Data"). However, MSCI has not reviewed this product or report, and MSCI does not endorse or express any opinion regarding this product or report or any analysis or other information contained herein or the author or source of any such information or analysis. Neither MSCI nor any third party involved in or related to the computing or compiling of the Index Data makes any express or implied warranties, representations or guarantees concerning the Index Data or any information or data derived therefrom, and in no event shall MSCI or any third party have any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) relating to any use of this information. Any use of the Index Data requires a direct license from MSCI. None of the Index Data is intended to constitute investment advice or a recommendation to make (or refrain from making) any kind of investment decision and may not be relied on as such.

Active Share is the proportion of stock holdings in a portfolio's composition that is different from the composition found in its benchmark. The greater the difference between the asset composition of the portfolio and its benchmark, the greater the active share.

Average Weight is the dollar value (price times the shares held) of the security or group, divided by the total dollar value of the entire portfolio displayed as a percentage. It is calculated as the simple arithmetic average of daily values. Contribution to Return is the contribution of a security or group to the overall portfolio return. It is calculated as the security weight multiplied by the daily security return linked daily across the reporting period. Allocation Effect is the portfolio excess return that is attributable to taking different group bets from the benchmark. (If either the portfolio or the benchmark has no position in a given group, allocation effect is the lone effect.) A group's allocation effect equals the average percent capitalization of the portfolio's group minus the average percent cap of the benchmark's group times the total return of the benchmark group minus the total return of the benchmark's group times the total return of the portfolio's group minus the total return of the benchmark's group times the total return of the portfolio's group minus the total return of the benchmark's group times the total return of the portfolio's group minus the total return of the benchmark's group. It is calculated as the security weight multiplied by the daily security return linked daily across the reporting period. Total Effect is the sum of Allocation Effect and Stock Selection. The total effect represents the opportunity cost of what was done in a group relative to the overall portfolio. It is not just the difference between percent contribution in the portfolio and benchmark. At the overall portfolio level, the two numbers are equal. At the group level, they can be different. This information should not be considered as a recommendation to purchase or sell a particular security and there is no assurance that certain securities will remain in or out of the portfolio. These sectors, stock selections and holdings may change at any time and may not represent current or future sectors or stock s



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### **CARBON SOLUTIONS COMPOSITE**

May 31, 2021 to December 31, 2022

YEAR ENDED	COMPOSITE GROSS OF FEE RETURNS (%)	COMPOSITE NET OF FEE RETURNS (%)	MSCI ACWI IMI INDEX (NET) RETURNS (%)	COMPOSITE GROSS OF FEE 3-YR STD DEV (%)	MSCI ACWI IMI Index (net) 3- yr std dev (%)	COMPOSITE Assets (\$ IN Millions)	# OF Accounts	INTERNAL Dispersion (Equal-Weighted)	TOTAL FIRM Assets (\$ In Millions)
INCEPTION TO		6.03	6.19 <sup>1</sup>	N/A	N/A	5.4	1	N/A	245,584.9
12/31/21 2022	-11.23	-11.85	-18.40	N/A	N/A	4.8	1	N/A	164,123.0

<sup>1</sup>. Prior to June 30, 2022, the MSCI ACWI IMI Net Return was shown as 6.57%

- 1. Jennison Associates LLC (Jennison or the Firm) claims compliance with the Global Investment Performance Standards (GIPS®) and has prepared and presented this report in compliance with the GIPS standards. Jennison has been independently verified for the period from January 1, 1993 through December 31, 2022. A firm that claims compliance with the GIPS Standards must establish policies and procedures for complying with all applicable requirements of the GIPS Standards. Verification provides assurance on whether the firm's policies and procedures related to composite and pooled fund maintenance, as well as the calculation, presentation, and distribution of performance, have been designed in compliance with the GIPS Standards and have been implemented on a firm-wide basis. The Carbon Solutions Composite (Composite) has been examined for the period May 31, 2021 through December 31, 2022. The verification and performance examination reports are available upon request.
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- 4. The net of fee return for 1 year and Inception to Date periods ending 12/31/2022: -11.85% and -4.17% respectively. The benchmark return for 1 year and since composite inception date periods ending 12/31/2022: -18.40% and -8.64% respectively
- 5. The Composite inception date was May 31, 2021 and the creation date under the GIPS standards was June 2021. The Carbon Solutions strategy seeks to provide long-term growth of capital by taking a holistic approach to promoting and advancing a reduction in global carbon emissions and aiding in the transition to a clean energy future. A list of Jennison's composite and limited distribution pooled fun descriptions are available upon request. Policies for valuing investments, calculating performance, and preparing GIPS Reports available upon request.
- 6. Performance results are calculated in US dollars and reflect reinvestment of dividends and other earnings. Gross of fee performance is presented before custodial and Jennison's actual advisory fees but after transaction costs. Net of fee performance is presented net of Jennison's actual advisory fees and transaction costs. Returns are gross of reclaimable withholding taxes, if any, and net of non-reclaimable withholding taxes. For a carbon solutions separate account the fee schedule offered to institutional clients is as follows: 0.70% on first \$50 million of assets managed; 0.60% on next \$150 million; 0.50% on the balance. Actual advisory fees charged and actual account minimum size may vary by account due to various conditions described in Jennison Associates LLC's Form ADV.
- 7. The data presented represents past performance and does not guarantee future results. Performance results fluctuate, and there can be no assurances that objectives will be achieved. Client's principal may be at risk under certain market conditions.
- 8. The annual composite dispersion presented is an equal weighted standard deviation calculated for the accounts in the composite for the entire year. For annual periods with less than 6 accounts included for the entire year, dispersion is not presented. The three-year annualized ex-post standard deviation is not required to be presented prior to 2011 or when 36 monthly composite returns are not available.
- 9. The Benchmark for the Strategy is the MSCI ACWI IMI Index (Net).