



BY MARTEN & Cº

INVESTOR

JLEN Environmental Assets

Investment companies | Annual overview | 31 March 2023

Laying the foundations for NAV growth

In common with its peers, JLEN Environmental Assets (JLEN) experienced an eventful but fruitful 2022. Volatile power prices, rampant inflation, rising interest rates and new taxes buffeted the renewables sector but generally acted as a tailwind for net asset value (NAV) growth. Some of these issues will continue to affect the sector in 2023. We explore all of these from page 4 onwards.

JLEN's managers can have little influence on these big macroeconomic factors but they can, through their investment activity, lay the foundations for future NAV uplifts.

At the end of its last accounting year, JLEN had 6% of its portfolio in assets under construction or development, and a sizeable pipeline of new opportunities. As they reach maturity, these projects can act as an engine for capital growth.

Progressive dividend from investment in environmental infrastructure assets

JLEN aims to provide its shareholders with a sustainable, progressive dividend, paid quarterly, and to preserve the capital value of its portfolio. It invests in a diversified portfolio of environmental infrastructure projects generating predictable, wholly or partially index-linked cash flows. Investment in these assets is underpinned by a global commitment to support the transition to a low carbon economy and mitigate the effects of climate change.

Sector	Renewable energy infrastructure
Ticker	JLEN LN
Base currency	GBP
Price	116.4p
NAV	123.5p ¹
Premium/(discount)	(5.7%)
Yield	6.1% ²

Note 1) Morningstar estimate, last published 123.5p at end December 2022. 2) based on forecast dividend per share for FY23 of 7.14p



JLEN's NAV returns over the past 12 months have been very strong





Around 60% of JLEN's forecasted revenues on a net present value basis are linked to inflation as measured by the RPI





JLEN has a healthy pipeline of potential investments including in the area of controlled environments and hydrogen







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Domicile	Guernsey
Inception date	31 March 2014
Manager	Foresight Group LLP
Market cap	770.0
Shares outstanding (exc. treasury shares)	661,539,239
Daily vol. (1-yr. avg.)	1,214,220 shares
Net gearing	25.5%

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Click for JLEN's peer group analysis



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At a glance

Share price and premium/(discount)

JLEN is one of the larger funds within its peer group, and while it has derated recently, its discount to NAV is one of the narrowest in the sector. We think that this may reflect its good track record – ranking third in NAV terms over the past 12 months – and the comfort that investors may derive from the diversification of its portfolio and high-level of inflation linked income.

Performance over five years

JLEN's NAV returns over the past 12 months (to end February 2023) have been very strong, up 30.1%.

UK power prices have been falling from the extreme peak of summer 2022, helped by falling gas prices. However, they are still above pre-COVID levels. JLEN has been seeking to lock in these higher prices for longer. It is also benefiting from higher than forecast inflation.

Time period 28 February 2023 to 29 March 2023



Source: Morningstar, Marten & Co

Time period 28 February 2018 to 28 February 2023



Source: Morningstar, Marten & Co

12 months ending	Share price total return (%)	NAV total return (%)	Earnings per share (pence)	Adjusted EPS (pence)	Dividend per share (pence)
31/03/2018	(1.8)	6.0	5.7	6.5	6.31
31/03/2019	16.3	12.2	12.2	5.8	6.51
31/03/2020	6.3	(0.7)	(2.1)	6.5	6.66
31/03/2021	6.9	1.5	1.5	6.7	6.76
31/03/2022	7.3	34.1	30.6	7.0	6.80

Source: Morningstar, Marten & Co



Fund profile

Projects that use natural or waste resources or support more environmentally friendly approaches to economic activity JLEN invests in infrastructure projects that use natural or waste resources or support more environmentally-friendly approaches to economic activity, support the transition to a low carbon economy or which mitigate the effects of climate change.

JLEN's assets are broadly categorised as intermittent renewable energy generation, baseload (steady and predictable) renewable energy generation and non-energy generating assets that have environmental benefits. Intermittent energy generation investments include wind, solar and hydropower. Baseload renewable energy generation investments include biomass technologies, anaerobic digestion (AD) and bioenergy generated from waste. Non-energy generating projects include wastewater, waste processing, low carbon transport, battery storage, hydrogen and sustainable solutions for food production like agri- and aquaculture projects.

JLEN aims to build a portfolio that is diversified both geographically and by type of asset. This emphasis on diversification reduces the dependency on a single market or set of climatic conditions and helps differentiate JLEN from the majority of its peers, which tend to specialise in solar or wind.

Reflecting its objective of delivering sustainable, progressive dividends and preserving its capital, JLEN does not invest in new or experimental technology. A substantial proportion of its revenues is derived from long-term government subsidies.

JLEN's AIFM is Foresight Group LLP (Foresight). Foresight is one of the best-resourced investors in renewable infrastructure assets, with £12.3bn of assets under management as at 31 December 2022. This includes Foresight Solar Fund, which sits in JLEN's listed peer group. Foresight has a highly-experienced and well-resourced global infrastructure team with over 100 infrastructure professionals managing around 3.1GW of energy infrastructure. It is a global business, with 13 offices in seven countries. The co-lead managers to JLEN are Chris Tanner, Chris Holmes and Edward Mountney (see page 24).

Market background

Our last note was published six months ago. In it, we identified a number of factors that were influencing JLEN's chosen sectors – power prices, inflation, taxation, energy market reform, and rising discount rates. We revisit these below, beginning with discount rates, which seem to be weighing on the London-listed renewable energy sector, perhaps unfairly.

Discount rates

As Figure 1 illustrates, there has been a steep rise in government borrowing costs since the beginning of 2021. This was accelerated by the fallout from the 'mini budget' of September 2022, but gilt yields have not fallen back much since.

The discount rates that are used in the discounted cash flow calculations that inform the NAVs of many alternative assets funds, including those in the renewable energy



sector, can be broken down into the risk-free rate – derived from the yield on a government bond with equivalent duration – plus a risk premium. That might suggest that a steep rise in discount rates is warranted. However, the discount rates are also informed by the prices that assets change hands at in the secondary market. These are not much affected, suggesting that the risk premium has actually been falling.

6
5
4
3
2
1
0
Mar/13 Mar/14 Mar/15 Mar/16 Mar/17 Mar/18 Mar/19 Mar/20 Mar/21 Mar/22

— 10-year — 30-year

Figure 1: Long term (10-year and 30-year) UK gilt yields

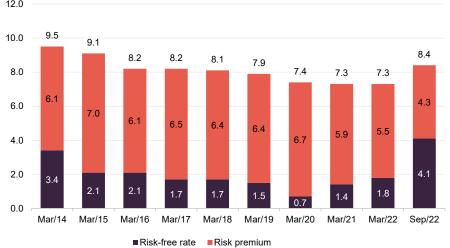
Source: Bloomberg, Marten & Co

At 30 September 2022, the directors decided that a 0.75% increase in the fund's weighted average discount rate was appropriate (increasing it to 8.4%) and that was factored into the NAV at the time. The decision took £36.1m or about 4.5% off the NAV.

Figure 2: Changes to the make up of JLEN's discount rate since IPO

12.0

10.0 9.5



Source: JLEN, Marten & Co



Figure 2 shows how the make up of JLEN's discount rate has changed since its IPO. Various other factors influence this including the composition of the portfolio. Investors' risk appetite for some sectors has increased over time as they have become more familiar with these assets, and this will also have an effect. Nevertheless, if investors feel that discount rates are likely to trend higher, as an indication JLEN estimates that, based on the portfolio at end-September 2022, a 0.5% increase in the discount rate would deduct £20.1m or 3.1p from its NAV.

Power prices

900 800 700 600 500 400 300 200 100 Jan/20 Apr/20 Jul/20 Oct/20 Jan/21 Apr/21 Jul/21 Oct/21 Jan/22 Apr/22 Jul/22 Oct/22

Figure 3: UK power prices

Source: Bloomberg - UK baseload

UK power prices have been falling from the extreme peak levels of summer 2022, helped by falling gas prices. However, they are still above pre-COVID levels. JLEN has been seeking to lock in these higher prices for longer as is shown in Figure 4.

Proportion of JLEN's generation sold at fixed Figure 4: prices as at 30 September 2022 Winter 22 Summer 23 Winter 23 Summer 24 Wind 82 98 98 79 Solar 100 100 100 73 **Biomass** 87 45 **Energy from waste** 100 **AD** electric 100 58 58 AD gas 79 71 71 8 Weighted average 74 32 84 66 Source: JLEN

The numbers in Figure 4 are of course almost six months out of date but we feel that they illustrate the approach the JLEN takes to de-risking its exposure to volatile



market prices. Based on the portfolio at end September 2022, a 10% fall in power prices over the remaining life of JLEN's assets would have taken off £43.6m or 6.7p from the NAV and a 10% increase would have added £44.1m or 6.8p to the NAV. To illustrate how the portfolio interacts with the electricity generator levy (see below), a 5 year +10% uplift in unhedged power and gas prices would increase NAV by 2.1 pence per share.

Taxation

The UK's electricity generator levy was announced on 17 November 2022. The levy applies from 1 January 2023 and runs until 31 March 2028. Non-fossil fuel generators producing electricity from nuclear, renewable, biomass, and energy from waste sources, are required to pay a tax of 45% of their excess revenue from sales of power generated in the UK above a level of £75/MWh from 2023 to April 2024, and thereafter adjusted each year in line with the change in inflation (as measured by CPI) on a calendar-year basis.

The definition of revenue includes the impact of any hedging or forward sales of power, and excludes income from FiTs, the sale of ROCs, and capacity market payments. The levy does not apply to revenues derived from battery storage, and sites that incorporate both renewable energy generation and battery storage will have to separate power generated from power re-exported to the grid for the purposes of calculating the levy.

JLEN had made provision for the likely effects of the levy in its end September interim results and adjusted its September NAV to reflect the announcement on 17 November 2022 just ahead of publication.

The managers note that 43% of JLEN's end September assets fell completely outside of the levy. They note that this is a strength of having a diversified portfolio that has a combination of assets that generate electricity (and fall in the scope of the levy) but also assets that generate gas (the anaerobic digestion plants), and also some assets that don't generate energy at all (for example, batteries, compressed natural gas (CNG) refuelling stations, and the controlled environment assets).

Inflation

A high degree of government backed subsidised revenues and long term contracts across the portfolio means that around 60% of JLEN's forecasted revenues on a net present value basis are linked to inflation as measured by the RPI.

UK inflation was expected to slow in February 2023, but that was not the case. JLEN's sensitivity to changes in the inflation rate is about +£18.2m or 2.8p on the NAV for every 0.5% increase in the forecast inflation rate. At the end of September 2022, JLEN was expecting an inflation rate of 10.4% in 2022, 4.6% in 2023, 3% for 2024-2030, and 2.25% thereafter. With RPI running at 13.4% at the end of December 2022 and 13.8% at the end of February, there could be substantial further upside to come from this factor.





Figure 5: UK RPI

Source: ONS Marten & Co

Energy market reform

REMA (the review of electricity market arrangements) that we discussed in our last note, is still progressing. The Department of Energy Security and Net Zero published a summary of responses to the consultation on 7 March 2023. While some approaches were ruled out, it is still far too early to draw any conclusions about the likely route forward.

The JLEN team recognises that there could be an effect on the basis on which its UK electricity-generating assets and battery storage assets receive their revenues. However, they feel that JLEN's diversified portfolio could put it in a strong position relative to its peers.

Investment process

Foresight selects projects for the portfolio based on its assessment of each project's risk and reward profile that fit within its defined investment policy. The group operates within a limited set of investment restrictions. New assets predominantly come from investments in the secondary market acquired from third parties.

The AIFM aims to maintain the balanced and diverse nature of the portfolio. Its approach is a cautious one. Although JLEN can invest across all OECD countries, to date investments have predominantly focused on the UK, with a small but growing exposure to European renewables. The managers say that they prefer to concentrate on countries and regulatory/subsidy regimes that they know well or where they have relationships with established partners.



Investment restrictions

- No more than 25% of the portfolio is to be invested in assets under construction
 or that are not yet operational, and within that, up to 5% of the portfolio may be
 invested in development stage assets. The board does expect to see an
 increase in the allocation to construction-ready assets, within the 25% limit.
- At least 50% invested in the UK and the balance invested in other OECD countries.
- No new investment to exceed 30% of NAV (or 25% of NAV based on the acquisition price, taking the value of existing assets into consideration).

Purchases from third parties in the secondary market

Deals can be introduced by the wider Foresight team

The managers have built up good working relationships with project developers. Some opportunities are brought to the managers for appraisal by specialist consultancy firms operating in the area. Deals may also be introduced by the wider Foresight team.

Prices are negotiated at arm's length and reflect the managers' assessment of the potential risks and rewards from each project. This includes a review of the project's capital structure.

Environmental, social and governance (ESG) assessment

Environmental criteria are embedded in the structure of JLEN's investment and portfolio management activities.

With Foresight, JLEN considers environmental criteria against the UN Sustainable Development Goals during due diligence of a potential acquisition and thereafter the ongoing monitoring of its assets.

In order to inform its environmental objective, JLEN considers the following environmental key performance indicators (KPIs) and associated measurements:

- Renewable energy generated (MWh renewable electricity, MWh renewable heat)
- Greenhouse gas emissions avoided (tCO2e avoided for each investment)
- Waste treatment (waste recycled, waste diverted from landfill, in tonnes)
- Water treatment (wastewater treated in litres)
- Environmental incidents (reportable environmental incidents)
- Purchased energy originating from renewable sources (% of total purchased energy in the portfolio originating from renewable sources)
- Management of biodiversity (% of assets with biodiversity plans, number of assets engaged with on biodiversity issues)
- Assessment of major contractors against ESG criteria (% of major new and existing suppliers assessed against ESG criteria)



The day-to-day facilities management, operations and maintenance of the projects is contracted to third parties

Ongoing management

The day-to-day facilities management, operations and maintenance of JLEN's projects are contracted to third parties, and part of the managers' role is overseeing these arrangements, including approving payments.

The managers seek to identify opportunities for efficiency enhancements and capacity increases.

The managers also aim to optimise the financial structures of the project special purpose vehicles that hold the assets.

Disposals

JLEN will usually hold its assets for the long term, but the company will sell assets when the managers feel the sale price justifies it or when there are other valid reasons for doing so. As an example, JLEN sold its French wind portfolio early in 2022 and has since redeployed the proceeds into new investments.

Hedging

When they invest in assets in currencies other than sterling, the managers may choose to hedge the currency exposure back to sterling. The managers may also hedge interest rate risk, inflation risk, power, and commodity prices. All hedging is entirely at the board's discretion.

Sustainability

There are obvious environmental benefits that derive from JLEN's investment strategy, and the company is an Article 9 fund under SFDR, which means that it has a sustainable investment objective. It has also been awarded the London Stock Exchange's Green Economy Mark. In our March 2022 note (see page 14 of that note) we showed how JLEN's activities map onto the UN Sustainable Development Goals.

In terms of measurable outcomes, over the course of the six months ended 30 September 2022, the portfolio generated 655GWh of renewable energy (sufficient to meet the electricity demand of about 125,000 households). It treated more than 14.5bn litres of wastewater and its actions resulted in more than 351,500 tonnes of waste being diverted from landfill, with 69,500 tonnes of waste recycled.

Foresight is a signatory of the United Nations' Principles for Responsible Investment (UNPRI) and as we noted above ESG analysis is built into JLEN's investment process. It is also incorporated into the ongoing monitoring programme for JLEN's portfolio.

JLEN devoted 19 pages of its annual report to TCFD last year (49–67) and TCFD is now a standing agenda point on the board-level ESG sub-committee. Foresight has been working with an external consultant to assess the portfolio's scope 3 greenhouse gas emissions (the result of activities from assets not owned or



controlled by the reporting organisation, but that the organisation indirectly affects in its value chain).

Asset allocation

The following charts show the shape of JLEN's portfolio as at 30 September 2022, and therefore exclude the Thierbach green hydrogen project discussed on page 15. The 5% outside the UK is accounted for by JLEN's Italian and Norwegian investments.

Figure 6: Portfolio value split by sector, as at 30 September 2022

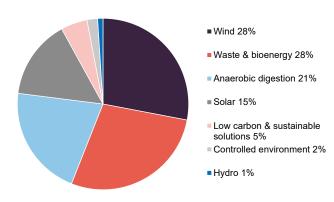
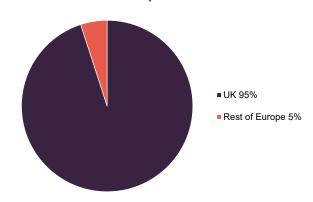


Figure 7: Portfolio value split by geography, as at 30 September 2022



Source: JLEN, Marten & Co

Source: JLEN, Marten & Co

As at 30 September 2022, the weighted average remaining asset life of the portfolio was 16.9 years.

Figure 8: Portfolio split by operational status as at 30 September 2022

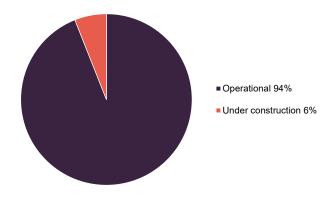
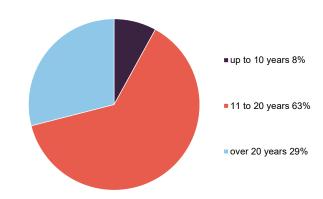


Figure 9: Portfolio split by remaining asset life as at 30 September 2022

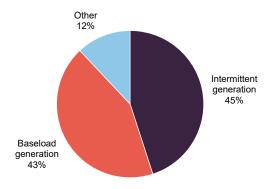


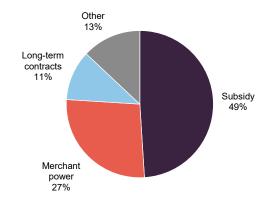
Source: JLEN, Marten & Co Source: JLEN, Marten & Co

At 6%, JLEN's construction exposure is not excessive, but it is materially higher than it was a year ago. These projects offer the potential for NAV uplifts as the projects become operational and the discount rate applied to them can be reduced as they become de-risked.



Figure 10: Portfolio split by generation type as Figure 11: Net present value of future revenues by type as at 30 September 2022

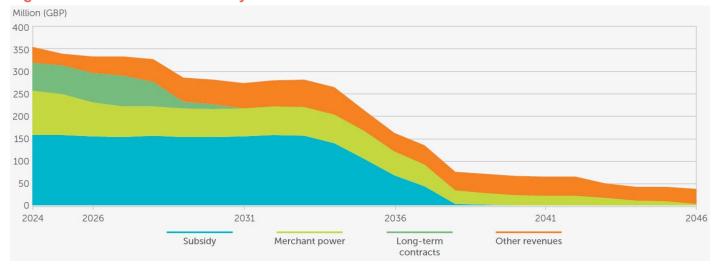




Source: JLEN, Marten & Co Source: JLEN, Marten & Co

Whilst subsidies make up almost half of JLEN's future revenues, they are time-limited. The chart in Figure 12 is taken from JLEN's interim report and shows how the make-up of its future revenues between 2024 and 2046 changes over the life of the projects in its portfolio.

Figure 12: JLEN's revenue analysis



Source: JLEN

As at 30 September 2022, JLEN's portfolio comprised interests in 41 project vehicles. These are listed in Figure 13.



Figure 13: JLEN portfolio of projects by type, as at 30 September 2022

Asset	Location	Туре	Ownership	Capacity (MW)	Commercial operations date
Bilsthorpe	UK (Eng)	Wind	100%	10.2	Mar 2013
Burton Wold Extension	UK (Eng)	Wind	100%	14.4	Sep 2014
Carscreugh	UK (Scot)	Wind	100%	15.3	Jun 2014
Castle Pill	UK (Wal)	Wind	100%	3.2	Oct 2009
Dungavel	UK (Scot)	Wind	100%	26.0	Oct 2015
Ferndale	UK (Wal)	Wind	100%	6.4	Sep 2011
Hall Farm	UK (Eng)	Wind	100%	24.6	Apr 2013
Llynfi Afan	UK (Wal)	Wind	100%	24.0	Mar 2017
Moel Moelogan	UK (Wal)	Wind	100%	14.3	Jan 2003 & Sep 2008
New Albion	UK (Eng)	Wind	100%	14.4	Jan 2016
Wear Point	UK (Wal)	Wind	100%	8.2	Jun 2014
Bio Collectors	UK (Eng)	Waste management	70%	11.7	Dec 2013
Codford Biogas	UK (Eng)	Waste management	100%	3.8	2014
Cramlington Renewable Energy Developments	UK (Eng)	Biomass combined heat and power	100%	32.0	2018
ELWA	UK (Eng)	Waste management	80%	n/a	2006
Energie Tecnologie Ambiente ("ETA")	Italy	Energy-from-waste	45%	16.8	2012
Тау	UK (Scot)	Wastewater	33%	n/a	Nov 2001
Biogas Meden	UK (Eng)	Anaerobic digestion	100%	5.0	Mar 2016
Egmere Energy	UK (Eng)	Anaerobic digestion	100%	5.0	Nov 2014
Grange Farm	UK (Eng)	Anaerobic digestion	100%	5.0	Sep 2014
Icknield Farm	UK (Eng)	Anaerobic digestion	53%	5.0	Dec 2014
Merlin Renewables	UK (Eng)	Anaerobic digestion	100%	5.0	Dec 2013
Peacehill Farm	UK (Scot)	Anaerobic digestion	49%	5.0	Dec 2015
Rainworth Energy	UK (Eng)	Anaerobic digestion	100%	2.2	Sep 2016
Vulcan Renewables	UK (Eng)	Anaerobic digestion	100%	13.0	Oct 2013
Warren Energy	UK (Eng)	Anaerobic digestion	100%	5.0	Dec 2015
Amber	UK (Eng)	Solar	100%	9.8	Jul 2012
Branden	UK (Eng)	Solar	100%	14.7	Jun 2013
CSGH	UK (Eng)	Solar	100%	33.5	Mar 2014 & Mar 2015
Monksham	UK (Eng)	Solar	100%	10.7	Mar 2014
Panther	UK (Eng)	Solar	100%	6.5	2011-2014
Pylle Southern	UK (Eng)	Solar	100%	5.0	Dec 2015
Clayfords Energy Storage	UK (Scot)	Battery storage	50%	n/a	Under construction
CNG Foresight	UK (Eng)	Low carbon transport	25%	n/a	Various
Lunanhead	UK (Scot)	Battery storage	50%	n/a	Under construction



Asset	Location	Туре	Ownership	Capacity (MW)	Commercial operations date
Sandridge Battery Storage	UK (Eng)	Battery storage	50%	n/a	Under construction
West Gourdie	UK (Scot)	Battery storage	100%	n/a	Under construction
Glasshouse	UK (Eng)	Controlled environment	Minority stake	n/a	Under construction
Rjukan	Norway	Controlled environment	Minority stake	n/a	Under construction
Northern Hydropower	UK (Eng)	Hydropower	100%	1.8	Oct 2011 & Oct 2017
Yorkshire Hydropower	UK (Eng)	Hydropower	100%	2.0	Oct 2015 & Nov 2016

Source: JLEN, Marten & Co. Note) excludes projects in FEIP's portfolio

JLEN has a healthy pipeline of potential investments including in the area of controlled environments and hydrogen. The managers are conscious that the market environment is challenging at present for raising additional equity and are factoring that into their decision-making.

It may be opportune to recycle capital from more mature assets within the portfolio, as they already have done with the fund's French windfarm investments.

New investments

In our last note, we discussed JLEN's two new controlled-environment projects – the Rjukan aquaculture plant and the glasshouse that is co-located with a JLEN anaerobic digestion plant. Since then, the Norwegian government has proposed a tax on sea-based fish farms. Whereas land-based facilities, such as JLEN's recirculating aquaculture facility, would remain unaffected by the new tax; improving the relative economics of land-based investments. The managers say that the co-located glasshouse project is progressing well. It may be possible to develop similar projects alongside other anaerobic digestion plants, but there is a land-availability constraint to this.

Gigabox No. 4

Just after we published our last note, JLEN announced that it was spending up to £16.4m to buy a 50% equity stake in Gigabox No 4 Limited, which holds the development rights to construct a 49.9MW lithium-ion battery energy storage plant based in Lunanhead, Angus, Scotland. JLEN's partner in the deal was Foresight Solar Fund.

The announcement said that the project is fully consented and construction-ready and is expected to start commercial operations in early 2024. Initially, the project's grid connection will be limited to 45MW, increasing to the full 49.9MW capacity by early 2025.



Thierbach - JLEN's first green hydrogen project

The existing market for hydrogen is estimated to be worth \$175bn annually

In aggregate, the potential market for green hydrogen is estimated to be \$2trn

Significant subsidies for green hydrogen

Projects are being built

There is already demand beyond the one-for-one substitution of grey hydrogen

The case for Green hydrogen

Hydrogen is used in many industrial processes including oil refining, the production of ammonia for fertiliser, chemicals, artificial fibres, glass, electronics and metallurgy. This existing market for hydrogen is estimated to be worth \$175bn annually. Almost all of this is grey hydrogen, which is produced by steam methane reforming (SMR) of natural gas and generates about 830m tonnes a year of greenhouse gases. Governments recognise the urgent need to decarbonise this sector. Additionally, in Europe in particular, the war in Ukraine created a new imperative to find alternatives to Russian natural gas.

Blue hydrogen – hydrogen produced from SMR but with associated carbon capture and storage – is unlikely to provide a long-term or complete solution. However, green hydrogen – produced from the electrolysis of water using renewable energy – is increasingly cost-competitive and produces no greenhouse gases.

Green hydrogen offers a route to decarbonising a wide range of industries, particularly those that are heavy consumers of energy. It can also fuel heavy transport – HGVs and ships, for example. The diversion of excess production of renewable energy at times of peak supply (when intraday power prices are exceptionally cheap) into hydrogen generation also offers another form of energy storage that can be held indefinitely (unlike traditional battery storage) and used to fuel peaking power plants. In aggregate, the annual potential market for green hydrogen is estimated to be \$2trn.

Government support is delivering on the promise of green hydrogen

Globally, governments have accepted the need to accelerate the transition to green hydrogen and are providing significant support to this. In the US, the Inflation Reduction Act contained \$9.5bn of funding for hydrogen to subsidise production tax credits of up to \$3 per kilogramme. In Europe, the EU strategy on hydrogen was adopted in 2020. In May 2022, the EU published its REPowerEU plan, which is designed to find alternatives to Russian fossil fuels. Its ambition is to produce 10m tonnes and import 10m tonnes of renewable hydrogen in the EU by 2030.

The upshot of these and other initiatives is that the false dawns for the hydrogen sector over recent years should now be behind us. While the operational base of green hydrogen is just 0.8GW today, 6.0GW is under development and 1.2TW of projects are proposed.

For the next few years, there is more than enough demand from customers looking to switch away from grey hydrogen to justify the construction of these new plants. However, the alternative use cases are already being developed. For example, in the UK, National Gas's Future Grid project is testing the effect of blending hydrogen with natural gas in the existing transmission network. Snam in Italy has already tested a 10% blend and in Germany, the town of Oehringen in the southwest of the country is trialling a 30% blend.



JLEN's partnership with HH2E

On 26 January 2023, JLEN, announced that it was making first use of its 5% development allowance with its first investment into the green hydrogen sector. It has acquired a 33% equity stake in Foresight Hydrogen Holdco GmbH. JLEN has some additional underlying exposure through its investment in Foresight Energy Infrastructure Partners, which also bought a 33% stake, The balance is owned by Foresight ITS.

Foresight Hydrogen Holdco owns a 75% stake in HH2E Werk Thierbach GmbH, an SPV which, in turn, owns 100% of the development rights to HH2E's Thierbach green hydrogen project, a large green hydrogen production plant near Borna in Germany.

Thierbach is being developed by HH2E, a German specialist in developing projects to decarbonise industry, using green hydrogen. Foresight Hydrogen Holdco also holds a 7.6% stake in HH2E.

The design of HH2E's plants uses alkaline electrolysis powered by green energy (based on the procurement of green energy supplied through the national grid rather than a direct supply). The plant incorporates battery storage, allowing it to deliver constant hydrogen production with a variable power supply – meaning that it can target buying power at intraday low prices.

Initially, the plant will have a 100MW electrolyser capable of producing around 6,000 tonnes (over 200GWh) of green hydrogen per year. The plant is designed to be scalable to 1GW by 2030.

Thierbach is in Saxony and its prospective customers are said to include large-scale energy and industrial consumers such as the chemical industry and commercial air and road transport operators.

The JLEN team says that Thierbach is very similar to a traditional infrastructure investment – a collection of long-term contracts covering both input costs and offtake agreements, most likely on a take or pay arrangement.

Thierbach is just the start; Foresight Hydrogen Holdco also has priority funding rights over further projects. In addition, each site could potentially expand to several times its size.

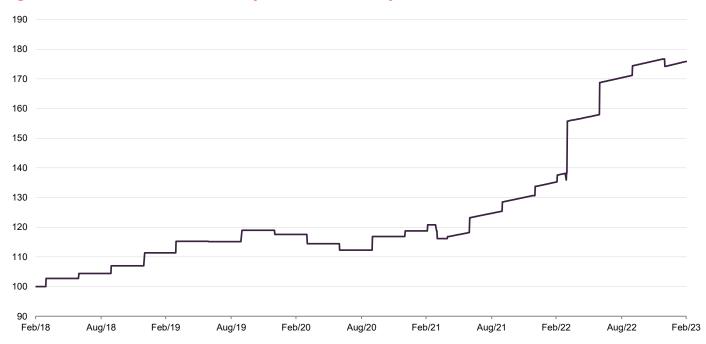
JLEN's initial investment is €5.7m, part of a c.€13m capital injection into the project to bring Thierbach to a construction-ready stage (funding front-end engineering and design, and the purchase of the land and key equipment). The balance of the project funding could come either all from the equity backers (perhaps with a later refinancing) or it may be that banks are ready to lend to the project.

The JLEN team says that Thierbach offers an attractive return profile, including the prospect of NAV uplifts as the project progresses through to operations. Additionally, the discount rates on these projects should fall as investors become more familiar with these projects. The team believes that JLEN's priority rights may prove valuable.



Performance

Figure 14: JLEN NAV TR over five years to 28 February 2023



Source: Morningstar, Marten & Co. NB with effect from 1 May 2021, Morningstar's NAV estimate includes an estimate of accrued income

Figure 15: JLEN cumulative performance to 28 February 2023

	3 months (%)	6 months (%)	1 year (%)	3 years (%)	5 years (%)	Since launch (%)
JLEN NAV total return	(0.1)	3.2	30.1	49.6	75.9	119.6
JLEN share price total return	(3.5)	(8.6)	15.1	21.6	54.8	94.7

Source: Morningstar, Marten & Co

JLEN's NAV returns over the past 12 months have been very strong. We explore the drivers of this over the next few pages. Unfortunately, the share price has not kept pace with the NAV, as we discuss on page 22.

Operations – H1 FY23

Wind

UK wind assets continue to be affected by a lower than budgeted wind resource, this is not unique to JLEN. In its case, generation for the six months ended 30 September 2022 was 13% below target. In addition, a planned grid outage affected output from Llynfi.



Solar

By contrast, solar generation was above budget, demonstrating the benefits of pairing wind and solar in a portfolio – generally low wind resource is associated with higher solar resource and vice versa.

Anaerobic digestion

Output from the anaerobic digestion (AD) portfolio over the first half of its financial year ending in 2023 was ahead of budget, once again. The manager notes that the 2022 UK maize harvest (used as a feedstock for AD plants) was impacted by high gas prices affecting the cost of fertiliser and a lack of rainfall over the summer of 2022, which reduced crop yields. The manager has responded by securing additional sources of feedstock for next year.

Waste and bioenergy

Technical issues at the Bio Collectors food waste plant and ETA energy-from-waste plant detracted from the overall performance. The manager has been working with the asset operators to remedy these issues.

Cramlington's unplanned shutdown was discussed in the half-year report. A similar plant developed a fault with a rotor on the turbine and operations were suspended while the manufacturer investigated whether Cramlington was similarly affected. It turned out that the part needed to be replaced, but this remedial work has since been completed and the plant is back up and running. The manager took advantage of the shutdown to accelerate other planned maintenance.

Battery storage

The manager says that JLEN's battery storage projects secured some capacity market revenues in the last auction, but these are not material to the company's revenue. JLEN's first battery project, West Gourdie, is now energised and going through the commissioning process. We think that this may have a positive impact on the end-March NAV as this project becomes de-risked.

Hydro

The hydropower portfolio was severely affected by low rainfall over the six months ended 30 September 2022, generation was 48.7% below target. However, the effect on JLEN's overall result was not material as hydro represents just 1% of the portfolio.

Recent NAV announcements

Q4 2022

The end December NAV was £816.7m or 123.5p per share. This was a little lower than the 124.4p recorded for the end of September (after adjusting for the Electricity Generator Levy).

The main drivers of this return were said to be:

 a decline in near- and medium-term power price forecasts provided by independent third-party consultants (-3.4p);



- operational gains from investments performing above expectations for the period (+0.7p); and
- an increase to the 2023 forecast rate of RPI to 6.5% reflecting an average of recent independent economic forecasts (+1.7p).

Q3 2022

The NAV figure at end September 2022 was 125.4p, but this was subsequently adjusted to 124.4p to reflect the impact of the UK government's Electricity Generator Levy, announced in the Autumn Statement in November 2022. This figure was up on the end June figure of 123.1p

Apart from the levy, the main influences on the third quarter 2022 NAV were forecast power prices, changes to economic assumptions (including inflation), and an increase in weighted average discount rates (by 0.75% as discussed on page 4). We have not broken these down in terms of pence per share as JLEN only reported the changes over the six months ended 30 September, rather than the three-month period ending on the same date.

Peer group

Up to date information on JLEN and its peers is available on the QuotedData website JLEN has one of the broadest remits of the 22 companies that comprise the members of the AIC's renewable energy sector. Most of these funds are focused on solar or wind or some combination of the two. Three of these funds are focused solely on energy storage.

There is variation of geographic exposure within the peer group too, with a number of funds that are heavily exposed to the North American market (which has a different risk/reward structure) and one focused on Asia.

JLEN is one of the larger funds within this peer group, and while it has de-rated recently, its share price discount to NAV is one of the narrowest in the sector. We think that this may reflect its good track record – ranking third in NAV terms over the past 12 months – and the comfort that investors may derive from the diversification of its portfolio and high-level of inflation linked income.

Wide discounts have distorted dividend yields across the sector. Nevertheless, JLEN's dividend yield is attractive. Its ongoing charges ratio ranks about middle of the pack.



Figure 16: AIC renewable energy infrastructure sector comparison table, as at 29 March 2023

	Market cap (£m)	Premium/ (discount) (%)	Yield (%)	Ongoing charge (%)
JLEN	770	(5.7)	6.1	1.19
Aquila Energy Efficiency	77	(19.3)	6.5	0.90
Aquila European Renewables Income	323	(15.5)	5.9	1.10
Atrato Onsite Energy	120	(13.6)	6.2	1.40
Bluefield Solar Income	822	(5.5)	6.3	1.02
Downing Renewables & Infrastructure	192	(12.2)	5.2	1.60
Ecofin US Renewables Infrastructure	89	(16.7)	7.1	1.47
Foresight Solar	666	(13.7)	6.9	1.14
Gore Street Energy Storage Fund	460	(15.6)	7.3	1.57
Greencoat Renewables	1,095	(2.5)	5.9	1.21
Greencoat UK Wind	3,567	(8.0)	5.7	0.93
Gresham House Energy Storage	859	6.3	4.4	1.23
Harmony Energy Income	262	(7.7)	6.9	-
HydrogenOne Capital Growth	59	(52.8)	0.0	2.06
NextEnergy Solar	612	(14.1)	7.2	1.09
Octopus Renewables Infrastructure	520	(16.0)	6.3	1.15
Renewables Infrastructure Group	3,049	(8.8)	5.9	0.93
SDCL Energy Efficiency Income	914	(22.3)	7.3	1.00
Thomas Lloyd Energy Impact	158	8.5	1.8	-
Triple Point Energy Efficiency Infrastructure	64	(35.3)	8.7	1.38
US Solar Fund	218	(16.5)	7.0	1.37
VH Glob Sustainable Energy Opps	420	(8.1)	5.6	1.30
Peer group median	440	(13.7)	6.2	1.20
JLEN rank	7/22	5/22	13/22	10/20

Source: Morningstar, Marten & Co



Figure 17: AIC renewable energy infrastructure sector performance comparison table, periods ending 28 February 2023

	3 months (%)	6 months (%)	1 year (%)	3 years (%)	5 years (%)
JLEN	(0.1)	3.2	30.1	49.6	75.9
Aquila Energy Efficiency	(1.0)	(0.1)	1.6	n/a	n/a
Aquila European Renewables Income	2.9	8.8	18.5	26.5	n/a
Atrato Onsite Energy	1.3	(1.7)	(0.1)	n/a	n/a
Bluefield Solar Income	2.2	4.4	23.1	45.4	79.5
Downing Renewables & Infrastructure	1.8	4.5	13.0	n/a	n/a
Ecofin US Renewables Infrastructure	(1.4)	(4.2)	12.4	n/a	n/a
Foresight Solar	1.4	5.0	24.0	50.4	64.9
Gore Street Energy Storage Fund	5.7	9.0	16.5	49.8	n/a
Greencoat Renewables	4.6	6.0	18.1	33.2	57.7
Greencoat UK Wind	9.2	11.5	30.7	64.1	101.1
Gresham House Energy Storage	1.1	5.3	34.3	78.7	n/a
Harmony Energy Income	0.9	9.2	28.3	n/a	n/a
HydrogenOne Capital Growth	1.1	(0.9)	1.4	n/a	n/a
NextEnergy Solar	(0.1)	2.4	23.3	41.1	61.9
Octopus Renewables Infrastructure	0.4	0.9	12.3	26.9	n/a
Renewables Infrastructure Group	1.5	2.9	19.1	40.4	76.0
SDCL Energy Efficiency Income	1.4	0.7	7.2	30.3	n/a
Thomas Lloyd Energy Impact	(1.2)	(4.5)	15.9	n/a	n/a
Triple Point Energy Efficiency Infrastructure	(0.8)	4.9	9.9	n/a	n/a
US Solar Fund	0.9	0.2	16.5	20.8	n/a
VH Glob Sustainable Energy Opps	(2.7)	(2.1)	7.7	n/a	n/a
Peer group median	1.1	3.0	16.5	41.1	75.9
JLEN rank	16/22	11/22	3/22	5/13	4/7

Source: Morningstar, Marten & Co

Dividend

JLEN has a progressive dividend policy. For the accounting year ended 31 March 2023, the board said that it was targeting a total dividend of 7.14p, which implies a fourth-quarter dividend of 1.9p.

At the half-year stage (30 September 2022), JLEN said that its cash dividend cover was running at 1.64x, up from 1.10x for the financial year ended in March 2022.



6 1.78 1.69 1.70 1.67 1.63 1.79 1.69 1.70 1.67 1.63 2 1.78 1.63 1.67 1.69 1.70 y/e 31 Mar 20 y/e 31 Mar 22 y/e 31 Mar 19 y/e 31 Mar 21 y/e 31 Mar 23 ■Sep ■Dec ■Mar ■Jun

Figure 18: JLEN five-year dividend history, pence per share

Source: JLEN, Marten & Co. Note: financial years to 31 March. *forecast

Premium/(discount)

Over the year to 28 February 2023, JLEN's shares traded in range of a 13.9% discount to NAV to a 12.1% premium, and averaged a premium of 0.5%. At 29 March 2023, JLEN was trading on a discount of 5.7%.



Figure 19: JLEN premium/(discount) (%) over five years to 28 February 2023

Source: Morningstar, Marten & Co



At the company's annual general meeting (AGM) on 1 September 2022, shareholders granted permission for both the repurchase of up to 14.99% of JLEN's then-issued share capital and the issuance of up to 10% of JLEN's then-issued share capital without pre-emption.

Fees and costs

JLEN's ongoing charges ratio for the year ended 31 March 2022 was 1.19%, down from 1.24% for the prior year.

The managers are entitled to a base fee of 1% on the first £500m of adjusted portfolio value and 0.8% on the balance. There is no performance fee and the manager's contract can be terminated on one year's notice.

For the year ended 31 March 2022, in addition to the investment management/advisory fees, directors' fees and expenses totalled about £297,000 and the administration fee was about £110,000.

Capital structure

JLEN has 661,531,229 ordinary shares in issue and no other classes of share capital. There are no shares held in treasury.

JLEN is domiciled in Guernsey and is listed on the main market of the London Stock Exchange. Investments are carried out through JLEN Environmental Assets Group (UK) Limited, a subsidiary in which JLEN may own both equity and loan notes.

JLEN has an indefinite life, but a discontinuation vote may be triggered if its shares trade at a discount for a prolonged period. The company's financial year-end is 31 March and AGMs are typically held in August or September.

Gearing

The reliable and predictable cash flows associated with most renewable energy generation support the incorporation of gearing within the capital structures of these funds and/or their projects. Reflecting this, gearing is intrinsic to the investment models applied by JLEN and the majority of its listed peers. JLEN is permitted to borrow up to 30% of its NAV, at the fund level.

JLEN has a £170m committed multi-currency revolving credit facility (RCF) as well as an uncommitted 'accordion' facility (which lets you expand the amount that you can borrow) of £30m, for borrowing purposes. The facility is provided by National Australia Bank, Royal Bank of Scotland International, ING, HSBC, and NIBC. The RCF matures in May 2024 but has an uncommitted option to allow it to be extended for a further year at JLEN's discretion. The loan bears interest of SONIA + 195 to 205 basis points (1.95% to 2.05%) as the interest charged is linked to JLEN's ESG performance. JLEN's interest rate will rise or fall based on performance against defined targets. Those targets include:

- Environmental: increase in the volume of clean energy produced;
- · Social: the value of contributions to community funds; and



Governance: maintaining a low number of work-related accidents, as defined under the Reporting of Injuries, Diseases and Dangerous Occurrences (RIDDORS) by the Health and Safety Executive.

As at 30 September 2022, drawings under the RCF were £71.4m.

At the project level, JLEN is constrained to a maximum of 65% gearing on gross project value for renewable energy generation projects and a maximum of 85% gearing on gross project value for PFI/PPP type projects. In practice, actual project gearing is much lower than this.

Figure 20: Leverage in different parts of JLEN's portfolio as at 30 September 2022 % of Leverage as a % portfolio of gross portfolio value Wind 28 32 28 17 Waste and bioenergy **Anaerobic digestion** 21 15 9 Solar Low carbon and sustainable solutions 5 **Controlled environment** 2 50 Hydro 1 31 **Total** 21 Source: JLEN

Major shareholders

JLEN disclosed that its largest shareholders as at 31 March 2022 were Gravis Capital Management (7.46%), Newton Investment Management (7.11%) and Evelyn Partners (5.48%).

Lead managers

Chris Tanner

Chris has been the co-lead investment manager to JLEN since IPO. He joined Foresight in 2019 as a partner and currently works in the London office. He has over 20 years' of industry experience. Chris is a member of the Institute of Chartered Accountants in England and Wales and has an MA in Politics, Philosophy and Economics from Oxford University.

Chris Holmes

Chris has been co-lead investment manager to JLEN since January 2018. He joined Foresight in 2019 as a partner in the London office. He has over 23 years' experience in infrastructure investment and financing in PFI/PPP and renewable energy projects. Chris has a BA (Hons) in Business Economics from the University of Durham.



Edward Mountney

Edward joined the JLEN management team in 2022. Prior to this, he was head of valuations for Foresight Group and John Laing Capital Management before that. He has over 13 years' experience in infrastructure and renewable energy projects.

Edward is a qualified Chartered Accountant and holds a BA (Hons) in Business and Management from Oxford Brookes University.

Board

JLEN's board is currently composed of seven directors, but that will fall back to six very shortly when Richard Ramsay retires from the board. All of the directors are non-executive and considered to be independent of the investment manager.

As we discuss below, a new phase of the board refresh has taken place in recent months.

Richard Morse, the former chair, stepped down from the board on 15 July 2022 and Ed Warner, OBE, replaced him.

Ed brings extensive financial services experience from his time spent in senior positions at several investment banks and financial institutions, including IFX Group, Old Mutual, NatWest Markets, and Dresdner Kleinwort Benson. He also has considerable investment trust experience, having been chair of both Standard Life Private Equity Trust Plc and Blackrock Energy and Resources Income Trust. He is currently chair of HarbourVest Global Private Equity Limited. Ed has also previously served as chair of Air Partner Plc and non-executive director and interim chair of Clarkson Plc.

Richard Ramsay, the last of the directors appointed at IPO, will step down as a non-executive director and senior independent director with effect from 1 April 2023. Following this, Stephanie Coxon will assume the role of senior independent director.

Nadia Sood was appointed to the board on 10 February 2023. Nadia brings extensive experience of executing and managing complex infrastructure investments ranging in size across multiple international markets. She has held a senior role within a Joint Venture with Tata Power, has been a director at Nestlé and is a member of the Governing Council of the IFC/World Bank SME Finance Forum. She is currently the CEO of CreditEnable, an award-winning global credit insights and technology solutions company.

Nadia holds a Bachelor of Science in Foreign Service from The Edmund A. Walsh School of Foreign Service at Georgetown University in Washington DC, and a Masters in International Affairs from Columbia University, New York. She is fluent in English, French and Norwegian.



Figure 21: Board member – length of service and shareholdings

Director	Position	Date of appointment	Length of service (years)	Annual fee (GBP)	Shareholding
Ed Warner	Chairman	2 August 2022	0.6	75,000	60,000
Stephanie Coxon	Audit committee chair	11 June 2020	2.8	55,000	15,000
Richard Ramsay	Senior independent director	12 December 2013	9.3	50,600	53,813
Alan Bates	Director	10 June 2021	1.8	46,000	12,500
Jo Harrison	ESG committee chair	10 June 2021	1.8	48,000	8,066
Hans Rieks	Risk committee chair	13 June 2019	3.8	48,000	95,000
Nadia Sood	Director	10 February 2023	0.1	46,000	-

Source: JLEN Environmental Assets, Marten & Co. The information is taken from JLEN's 2022 annual report

Previous publications

Readers interested in further information about JLEN may wish to read our previous notes. You can read the notes by clicking on them in Figure 22 below or by visiting our website.

Figure 22: QuotedData's previously published notes on JLEN

Diverse renewables exposureInitiation6 September 2017Anaerobic diversificationUpdate6 March 2018Diversification benefits shine throughAnnual overview12 September 2018Life extensions to boost NAV?Update15 March 2019Battery storage potentialAnnual overview9 September 2019Reliable source of incomeUpdate14 May 2020Increasingly diversified as green-led recovery loomsAnnual overview16 February 2021On the front footUpdate4 August 2021It's all about renewablesAnnual overview29 March 2022Further portfolio diversificationUpdate29 September 2022	Title	Note type	Date
Diversification benefits shine throughAnnual overview12 September 2018Life extensions to boost NAV?Update15 March 2019Battery storage potentialAnnual overview9 September 2019Reliable source of incomeUpdate14 May 2020Increasingly diversified as green-led recovery loomsAnnual overview16 February 2021On the front footUpdate4 August 2021It's all about renewablesAnnual overview29 March 2022	Diverse renewables exposure	Initiation	6 September 2017
Life extensions to boost NAV? Battery storage potential Annual overview 9 September 2019 Reliable source of income Update 14 May 2020 Increasingly diversified as green-led recovery looms Annual overview 16 February 2021 On the front foot Update 4 August 2021 It's all about renewables Annual overview 29 March 2022	Anaerobic diversification	Update	6 March 2018
Battery storage potentialAnnual overview9 September 2019Reliable source of incomeUpdate14 May 2020Increasingly diversified as green-led recovery loomsAnnual overview16 February 2021On the front footUpdate4 August 2021It's all about renewablesAnnual overview29 March 2022	Diversification benefits shine through	Annual overview	12 September 2018
Reliable source of incomeUpdate14 May 2020Increasingly diversified as green-led recovery loomsAnnual overview16 February 2021On the front footUpdate4 August 2021It's all about renewablesAnnual overview29 March 2022	Life extensions to boost NAV?	Update	15 March 2019
Increasingly diversified as green-led recovery looms Annual overview 16 February 2021 On the front foot Update 4 August 2021 It's all about renewables Annual overview 29 March 2022	Battery storage potential	Annual overview	9 September 2019
On the front foot Update 4 August 2021 It's all about renewables Annual overview 29 March 2022	Reliable source of income	Update	14 May 2020
It's all about renewables Annual overview 29 March 2022	Increasingly diversified as green-led recovery looms	Annual overview	16 February 2021
	On the front foot	Update	4 August 2021
Further portfolio diversification Update 29 September 2022	It's all about renewables	Annual overview	29 March 2022
	Further portfolio diversification	Update	29 September 2022

Source: Marten & Co





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