

Photon Energy NV

Netherlands | Renewables | MCap EUR 63.4m

15 January 2025

UPDATE



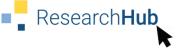
Next milestone in project with Eskom reached, Spec. BUY

What's it all about?

Photon Energy reported significant progress on its 250 MW concentrated solar power plant with 1.8 GWh (12 hours) of thermal hydro storage in KwaZulu-Natal, South Africa. The project has secured favorable grid connection terms, and advanced the environmental impact assessments and zoning processes, with ready-to-build status expected by Q2 2026. This project is strategically important as it expands Photon Energy's presence in emerging markets and could leverage Eskom's regional influence. It will be the largest deployment of RayGen technology, in which Photon Energy holds a 7.6% stake. Success could serve as a blueprint for future installations and boost the value of Photon's investment. We confirm our Spec. BUY rating with a price target of EUR 1.40.

Spec. BUY (Spec. BUY)

Target price EUR 1.40 (1.40)
Current price EUR 1.03
Up/downside 35.3%





MAIN AUTHOR

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Photon Energy NV

Netherlands | Renewables | MCap EUR 63.4m | EV EUR 230.8m

Spec. BUY (Spec. BUY)

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Next milestone in project with Eskom reached, Spec. BUY

South African project makes progress. Photon Energy has published its monthly report for December and issued a separate press release on the status of its PV plant planned in South Africa. The company has made significant progress in the development of the 250MW concentrated solar power plant with 1.8GWh (12 hours) of thermal hydro storage in KwaZulu-Natal, South Africa. Photon Energy has secured favorable grid connection terms and advanced the environmental impact assessment and zoning processes. Working with Eskom, the regional distribution system operator, Photon Energy aims to implement technical solutions for grid integration to ensure stability, optimized power distribution and essential services such as frequency regulation. The project is on track to achieve ready-to-build status by Q2 2026.

High strategic significance. The project is strategic for Photon Energy on several levels. It is an important step in expanding its presence in emerging markets with high solar potential and critical energy needs. The partner, Eskom, is Africa's largest electricity producer, operating most of South Africa's generation and transmission infrastructure and exporting electricity to a number of neighboring countries where reliable energy supply remains a challenge. If successful, the project could be the blueprint for future PV installations in the region, providing a scalable solution for grid stability, renewable energy integration and local economic development.

Largest RayGen project. The project also includes RayGen technology, which combines concentrated solar power and heat generation with a water-based thermal storage solution that can provide energy when the sun is not shining. To date, RayGen technology has been commercially deployed in a 4 MW / 50 MWh solar plant in Carwarp and a 160 MW / 1.2 GWh plant under development in Yadnarie, both in Australia. The South African project is the largest application of RayGen technology under development to date. Photon Energy holds a 7.6% stake in RayGen and a breakthrough in the technology would not only bode well for future projects but also for the value of Photon Energy's stake.

- continued next page -

Photon Energy NV	2021	2022	2023	2024E	2025E	2026E
Sales	36.4	94.2	70.6	89.6	104.2	114.4
Growth yoy	28.7%	159.1%	-25.0%	26.8%	16.3%	9.8%
EBITDA	9.6	24.1	6.8	9.8	13.9	16.2
EBIT	-0.9	14.5	-5.2	-2.8	1.1	3.4
Net profit	2.0	4.3	-0.5	-6.1	-2.5	-10.9
Net debt (net cash)	89.1	127.3	166.8	176.2	173.7	173.0
Net debt/EBITDA	9.3x	5.3x	24.4x	18.0x	12.5x	10.7x
EPS reported	0.04	0.07	-0.01	-0.10	-0.04	-0.18
DPS	0.00	0.00	0.00	0.00	0.00	0.00
Dividend yield	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Gross profit margin	65.0%	53.1%	47.8%	73.0%	71.2%	72.6%
EBITDA margin	26.4%	25.5%	9.7%	11.0%	13.3%	14.2%
EBIT margin	-2.3%	15.4%	-7.4%	-3.1%	1.1%	3.0%
ROCE	-0.4%	6.6%	-2.0%	-1.0%	0.4%	1.2%
EV/Sales	4.2x	2.0x	3.3x	2.7x	2.3x	2.1x
EV/EBITDA	15.9x	7.9x	33.8x	24.5x	17.1x	14.7x
EV/EBIT	-179.0x	13.1x	-44.4x	-85.4x	209.3x	69.4x
PER	28.8x	14.8x	-138.1x	-10.4x	-24.9x	-5.8x

Source: Company data, mwb research



Source: Company data, mwb research

High/low 52 weeks 2.06 / 0.83 Price/Book Ratio 0.9x

Ticker / Symbols

ISIN NL0010391108 WKN A1T9KW Bloomberg P7V:GR

Changes in estimates

		Sales	EBIT	EPS
2024E	old	89.6	-2.8	-0.10
	Δ	0.0%	na%	na%
2025E	old	104.2	1.1	-0.04
	Δ	0.0%	0.0%	na%
2026E	old	114.4	3.4	-0.18
	Δ	0.0%	0.0%	na%

Key share data

Number of shares: (in m pcs) 61.24 Book value per share: (in EUR) 1.14 Ø trading vol.: (12 months) 16,828

Major shareholders

Solar Future	35.5%
Solar Power to the People	32.2%
Tomala Investments	3.7%
Free Float	26.4%

Company description

Photon Energy NV is a solar energy and water treatment solutions company based in the Netherlands that covers the entire lifecycle of its technologies. The Company develops projects in Australia, Hungary, Poland and Romania, and provides operations and maintenance services worldwide. The Company has offices in Europe and Australia.





December stats. December is the least productive PV month in the northern hemisphere and therefore production figures have little relevance for Photon Energy, particularly following the sale of almost all of its Australian assets. Of

Price Trends 12/2024	price (EUR)	price yoy	price mom	share revenues
Czech Rep.	639	5%	0%	43%
Slovakia	262	-1%	0%	12%
Hungary	119	45%	2%	32%
Romania	63	-38%	26%	13%
Australia	199	243%	-2%	0%

note is the development in Romania, where performance was exceptionally weak due to a temporary shutdown of 7.5 MWp (approximately 14.5% of Romanian capacity) ordered by the TSO, with grid connection now expected to be approved in March 2025. This was offset by a 26% mom increase in Romanian prices following the transition of 11.7 MWp to the merchant model.

Spec. BUY, PT EUR 1.40. As discussed in our last update, harmful measures in a proposed draft amendment to the Czech Republic's regulation have been removed in a revised version approved by parliament, removing a significant regulatory risk. We confirm our Spec. BUY rating with a price target of EUR 1.40.

The following table displays the quarterly performance of **Photon Energy NV**:

P&L data	Q4 2022	Q1 2023	Q2 2023	Q3 2023	Q4 2023	Q1 2024	Q2 2024	Q3 2024
Sales	26.4	19.3	21.0	19.2	14.9	17.4	23.9	22.9
yoy growth in %	125.3%	111.0%	-9.8%	-45.7%	-43.6%	-9.9%	14.1%	18.9%
Gross profit	9.3	6.2	11.9	11.8	10.8	9.3	15.2	14.7
Gross margin in %	35.3%	32.4%	56.9%	61.6%	72.4%	53.5%	63.4%	64.5%
EBITDA	1.2	0.3	2.5	1.9	0.4	0.8	5.3	3.8
EBITDA margin in %	4.6%	1.7%	11.9%	10.0%	2.4%	4.5%	22.1%	16.6%
EBIT	-0.4	-1.6	0.1	-1.0	-4.1	-1.4	2.3	0.4
EBIT margin in %	-1.3%	-8.1%	0.5%	-5.4%	-27.3%	-8.2%	9.5%	1.7%
EBT	-2.4	-4.2	-2.8	-4.0	-4.0	-2.3	-2.6	-2.5
taxes paid	-1.4	0.0	0.5	-1.8	0.8	-1.0	0.2	0.5
tax rate in %	58.4%	0.0%	-17.0%	46.0%	-20.0%	43.0%	-6.2%	-20.7%
net profit	-3.8	-4.2	-3.3	-2.1	-4.8	-1.3	-2.8	-3.0
yoy growth in %	na%	na%	na%	na%	na%	na%	-14.8%	37.6%
EPS	-0.07	-0.08	-0.06	-0.04	-0.08	-0.02	-0.05	-0.05





Investment case in six charts

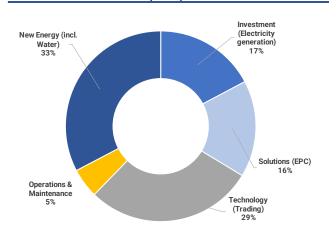
Business Model



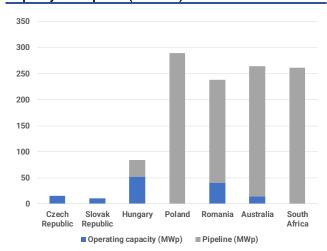
Geographical Presence



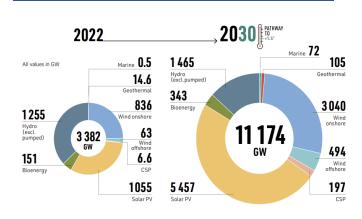
External Revenue Shares (2023)



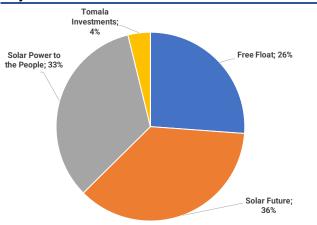
Capacity and Pipeline (H1 2024)



Fastest growing renewable energy



Major Shareholders







SWOT analysis

Strengths

- early mover in the PV market with expertise in the whole system life cycle
- unique focus on and understanding of CEE market
- · strong ESG credentials -> green bond
- transparent and detailed reporting and comprehensive capital market communications
- strong management team and high standards of corporate governance

Weaknesses

- still a relatively small player
- high leverage and capital needs to fulfill project pipeline
- strong seasonality in solar business
- analysis of underlying profitability complex due the nature of the business (FX and derivatives effects, strong contribution of OCI, capital gains on resale of projects and high share of internal revenues in business segments)

Opportunities

- solar power finally competitive without subsidies
- access to promising technology (RayGen) via equity participation
- catch up potential in CEE and a well filled project pipeline
- high prices for fossil energy and geopolitical tailwinds
- increasing interest in behind-the-meter projects
- increasing share of renewables leads to greater demand for grid flexibility and VPP services
- PFAS water remediation potentially huge market

Threats

- · water business line could distract focus
- volatile market prices
- large-scale project risk (cost overruns, change in market conditions during development etc.)
- regulatory risks, for example retroactive adjustments to feed-in tariffs or price caps





Valuation

DCF Model

The DCF model results in a fair value of EUR 1.41 per share:

Top-line growth: We expect Photon Energy NV to grow revenues at a CAGR of 8.1% between 2024E and 2031E. The long-term growth rate is set at 2.0%.

ROCE. Returns on capital are developing from -1.0% in 2024E to 6.3% in 2031E.

1.03

WACC. Starting point is a historical equity beta of 1.06. Unleverering and correcting for mean reversion yields an asset beta of 0.55. Combined with a risk-free rate of 2.0% and an equity risk premium of 6.0% this yields cost of equity of 10.3%. With pre-tax cost of borrowing at 7.5%, a tax rate of 25.0% and target debt/equity of 2.0 this results in a long-term WACC of 7.2%.

DCF (EURm) (except per share data and beta)	2024E	2025E	2026E	2027E	2028E	2029E	2030E	2031E	Terminal value
NOPAT	-2.1	0.9	2.6	3.0	3.4	3.8	4.6	12.3	
Depreciation & amortization	12.6	12.8	12.8	12.8	12.8	12.8	12.8	13.3	
Change in working capital	-4.3	-3.6	-2.6	-2.2	-2.2	-2.3	-2.5	-0.9	
Chg. in long-term provisions	0.6	0.2	1.4	1.2	1.2	1.3	1.4	0.4	
Capex	-12.1	1.7	0.0	0.0	0.0	0.0	-1.1	-12.6	
Cash flow	-5.3	12.0	14.2	14.8	15.2	15.5	15.1	12.5	246.2
Present value	-5.4	11.2	12.3	12.0	11.4	10.8	9.8	7.5	152.1
WACC	7.4%	7.4%	7.5%	7.5%	7.5%	7.5%	7.5%	7.5%	7.2%

DCF per share derived from	
Total present value	221.8
Mid-year adj. total present value	229.9
Net debt / cash at start of year	166.8
Financial assets	24.2
Provisions and off b/s debt	0.6
Equity value	86.7
No. of shares outstanding	61.2
Discounted cash flow / share	1.41
upside/(downside)	36.7%

DCF avg. growth and earnings assumptions	
Planning horizon avg. revenue growth (2024E-2031E)	8.1%
Terminal value growth (2031E - infinity)	2.0%
Terminal year ROCE	6.3%
Terminal year WACC	7.2%

Terminal WACC derived from	
Cost of borrowing (before taxes)	7.5%
Long-term tax rate	25.0%
Equity beta	1.06
Unlevered beta (industry or company)	0.55
Target debt / equity	2.0
Relevered beta	1.38
Risk-free rate	2.0%
Equity risk premium	6.0%
Cost of equity	10.3%

Sensitivity ana	lysis DCF							
		Long term g	ırowth				Share of present value	
Q		1.0%	1.5%	2.0%	2.5%	3.0%		
Change in WACC (%-points)	2.0%	0.2	0.3	0.4	0.5	0.7	2024E-2027E	13.6%
n V ints	1.0%	0.5	0.7	0.8	1.0	1.3	2028E-2031E	17.8%
ge i	0.0%	1.0	1.2	1.4	1.7	2.1	terminal value	68.6%
nau (%)	-1.0%	1.6	1.9	2.3	2.8	3.4		
<u>ਹ</u>	-2.0%	2.5	3.0	3.7	4.6	5.9		

Source: mwb research

Share price





FCF Yield Model

Due to the fact that companies rarely bear sufficient resemblance to peers in terms of geographical exposure, size or competitive strength and in order to adjust for the pitfalls of weak long-term visibility, an Adjusted Free Cash Flow analysis (Adjusted FCF) has been conducted.

The adjusted Free Cash Flow Yield results in a fair value between EUR -1.47 per share based on 2024E and EUR 0.64 per share on 2028E estimates.

The main driver of this model is the level of return available to a controlling investor, influenced by the cost of that investors' capital (opportunity costs) and the purchase price – in this case the enterprise value of the company. Here, the adjusted FCF yield is used as a proxy for the required return and is defined as EBITDA less minority interest, taxes and investments required to maintain existing assets (maintenance capex).

FCF yield in EURm	2024E	2025E	2026E	2027E	2028E
EBITDA	9.8	13.9	16.2	16.8	17.3
- Maintenance capex	10.1	10.2	10.2	10.2	10.2
- Minorities	0.0	0.0	0.0	0.0	0.0
- tax expenses	-4.0	-2.9	-3.6	-3.9	-4.3
= Adjusted FCF	3.8	6.6	9.6	10.5	11.4
Actual Market Cap	63.4	63.4	63.4	63.4	63.4
+ Net debt (cash)	176.2	173.7	173.0	172.9	174.0
+ Pension provisions	0.7	0.8	0.9	1.0	1.0
+ Off B/S financing	0.0	0.0	0.0	0.0	0.0
- Financial assets	24.2	24.2	24.2	24.2	24.2
 Acc. dividend payments 	0.0	0.0	0.0	0.0	0.0
EV Reconciliations	152.7	150.4	149.7	149.7	150.9
= Actual EV'	216.1	213.8	213.1	213.1	214.3
Adjusted FCF yield	1.7%	3.1%	4.5%	4.9%	5.3%
base hurdle rate	7.0%	7.0%	7.0%	7.0%	7.0%
ESG adjustment	1.0%	1.0%	1.0%	1.0%	1.0%
adjusted hurdle rate	6.0%	6.0%	6.0%	6.0%	6.0%
Fair EV	62.5	109.5	160.0	175.2	190.0
- EV Reconciliations	152.7	150.4	149.7	149.7	150.9
Fair Market Cap	-90.2	-40.8	10.3	25.5	39.1
No. of shares (million)	61.2	61.2	61.2	61.2	61.2
Fair value per share in EUR	-1.47	-0.67	0.17	0.42	0.64
Premium (-) / discount (+)	-242.3%	-164.4%	-83.7%	-59.8%	-38.4%
Sensitivity analysis FV					
4.0%	-1.0	0.2	1 5	1 0	2.2
			1.5	1.8	
Adjuste 5.0%	-1.3	-0.3	0.7	1.0	1.3
d hurdle 6.0%	-1.5	-0.7	0.2	0.4	0.6
rate 7.0%	-1.6	-0.9	-0.2	0.0	0.2
8.0%	-1.7	-1.1	-0.5	-0.3	-0.1

Source: Company data; mwb research

Simply put, the model assumes that investors require companies to generate a minimum return on the investor's purchase price. The required after-tax return equals the model's hurdle rate of 7.0%. Anything less suggests the stock is expensive; anything more suggests the stock is cheap. **ESG adjustments might be applicable.** A high score indicates high awareness for environmental, social or governance issues and thus might lower the overall risk an investment in the company might carry. A low score on the contrary might increase the risk of an investment and might therefore trigger a higher required hurdle rate.

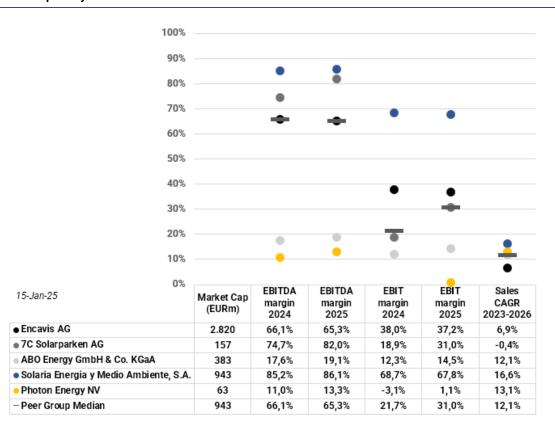




Peer group analysis

A peer group or comparable company ("comps") analysis is a methodology that calculates a company's relative value — how much it should be worth based on how it compares to other similar companies. Given that **Photon Energy NV** differs quite significantly in terms of size, focus, financial health and growth trajectory, we regard our peer group analysis merely as a support for other valuation methods. The peer group of Photon Energy NV consists of the stocks displayed in the chart below. As of 15 January 2025 the median market cap of the peer group was EUR 943.4m, compared to EUR 63.4m for Photon Energy NV. In the period under review, the peer group was more profitable than Photon Energy NV. The expectations for sales growth are lower for the peer group than for Photon Energy NV.

Peer Group - Key data



Source: FactSet, mwb research

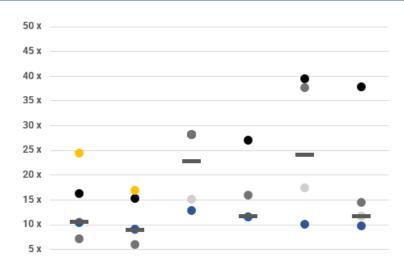




Comparable company analysis operates under the assumption that similar companies will have similar valuation multiples. We use the following multiples: EV/EBITDA 2024, EV/EBITDA 2025, EV/EBIT 2024, EV/EBIT 2025, P/E 2024 and P/E 2025.

Applying these to Photon Energy NV results in a range of fair values from EUR 0.01 to EUR -0.49.

Peer Group - Multiples and valuation



15-Jan-25 (0 x								
	EV/EBITDA 2024	EV/EBITDA 2025	EV/EBIT 2024	EV/EBIT 2025	P/E 2024	P/E 2025			
Encavis AG	16,3x	15,5x	28,4x	27,1x	39,6x	37,9x			
 7C Solarparken AG 	7,2x	6,1x	28,4x	16,0x	37,7x	14,5x			
 ABO Energy GmbH & Co. KGaA 	10,6x	9,0x	15,2x	11,8x	17,5x	11,9x			
 Solaria Energia y Medio Ambiente, 	S.A. 10,4x	9,2x	12,9x	11,7x	10,2x	9,9x			
Photon Energy NV	24,5x	17,1x	-85,4x	209,3x	-10,4x	-24,9x			
– Peer Group Median	10,6x	9,0x	23,0x	11,8x	24,2x	11,9x			
Fair Value (EUR)	-1,19	-0,86	-3,94	-2,67	-2,40	-0,49			

Source: FactSet, mwb research

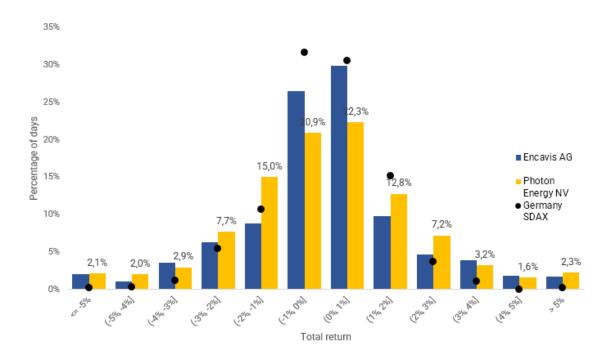




Risk

The chart displays the **distribution of daily returns of Photon Energy NV** over the last 3 years, compared to the same distribution for Encavis AG. We have also included the distribution for the index Germany SDAX. The distribution gives a better understanding of risk than measures like volatility, which assume that log returns are normally distributed. In reality, they are skewed (down moves are larger) and have fat tails (large moves occur more often than predicted). Also, volatility treats up and down moves the same, while investors are more worried about down moves. For Photon Energy NV, the worst day during the past 3 years was 02/09/2022 with a share price decline of -13.1%. The best day was 07/09/2022 when the share price increased by 14.1%.

Risk - Daily Returns Distribution (trailing 3 years)

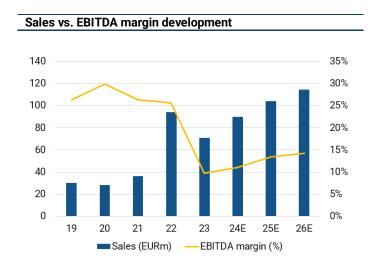


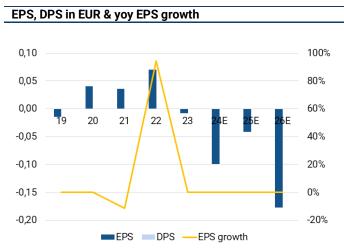
Source: FactSet, mwb research

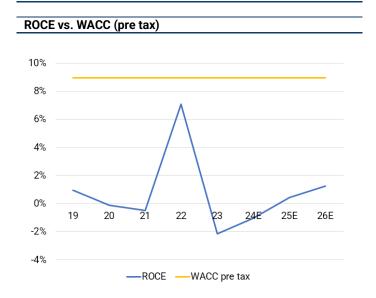


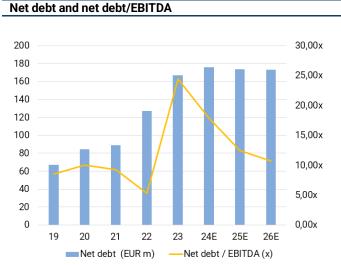


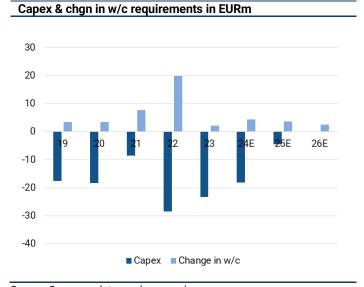
Financials in six charts

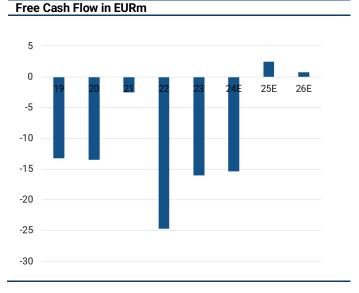
















Financials

Profit and loss (EURm)	2021	2022	2023	2024E	2025E	2026E
Net sales	36.4	94.2	70.6	89.6	104.2	114.4
Sales growth	28.7%	159.1%	-25.0%	26.8%	16.3%	9.8%
Change in finished goods and work-in-process	0.0	0.0	0.0	0.0	0.0	0.0
Total sales	36.4	94.2	70.6	89.6	104.2	114.4
Material expenses	12.7	44.1	36.9	24.2	30.0	31.3
Gross profit	23.6	50.1	33.8	65.4	74.2	83.1
Other operating income	0.6	0.6	4.1	5.1	5.9	6.5
Personnel expenses	6.7	9.5	18.5	42.8	47.5	58.5
Other operating expenses	7.7	17.0	12.5	17.9	18.8	14.9
EBITDA	9.6	24.1	6.8	9.8	13.9	16.2
Depreciation	10.7	9.0	12.0	12.6	12.8	12.8
EBITA	-1.1	15.1	-5.2	-2.8	1.1	3.4
Amortisation of goodwill and intangible assets	-0.2	0.6	0.0	0.0	0.0	0.0
EBIT	-0.9	14.5	-5.2	-2.8	1.1	3.4
Financial result	-5.2	-8.3	-11.1	-13.4	-12.7	-17.9
Recurring pretax income from continuing operations	-6.1	6.2	-16.3	-16.2	-11.5	-14.5
Extraordinary income/loss	0.0	0.0	0.0	0.0	0.0	0.0
Earnings before taxes	-6.1	6.2	-16.3	-16.2	-11.5	-14.5
Taxes	0.5	3.5	-0.6	-4.0	-2.9	-3.6
Net income from continuing operations	-6.6	2.8	-15.8	-12.1	-8.6	-10.9
Result from discontinued operations (net of tax)	8.5	1.5	15.3	6.0	6.1	0.0
Net income	2.0	4.3	-0.5	-6.1	-2.5	-10.9
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0
Net profit (reported)	2.0	4.3	-0.5	-6.1	-2.5	-10.9
Average number of shares	54.36	61.24	61.24	61.24	61.24	61.24
EPS reported	0.04	0.07	-0.01	-0.10	-0.04	-0.18

Profit and loss (common size)	2021	2022	2023	2024E	2025E	2026E
Net sales	100%	100%	100%	100%	100%	100%
Change in finished goods and work-in-process	0%	0%	0%	0%	0%	0%
Total sales	100%	100%	100%	100%	100%	100%
Material expenses	35%	47%	52%	27%	29%	27%
Gross profit	65%	53%	48%	73%	71%	73%
Other operating income	2%	1%	6%	6%	6%	6%
Personnel expenses	19%	10%	26%	48%	46%	51%
Other operating expenses	21%	18%	18%	20%	18%	13%
EBITDA	26%	26%	10%	11%	13%	14%
Depreciation	29%	10%	17%	14%	12%	11%
EBITA	-3%	16%	-7%	-3%	1%	3%
Amortisation of goodwill and intangible assets	-1%	1%	0%	0%	0%	0%
EBIT	-2%	15%	-7%	-3%	1%	3%
Financial result	-14%	-9%	-16%	-15%	-12%	-16%
Recurring pretax income from continuing operations	-17%	7%	-23%	-18%	-11%	-13%
Extraordinary income/loss	0%	0%	0%	0%	0%	0%
Earnings before taxes	-17%	7%	-23%	-18%	-11%	-13%
Taxes	1%	4%	-1%	-5%	-3%	-3%
Net income from continuing operations	-18%	3%	-22%	-14%	-8%	-10%
Result from discontinued operations (net of tax)	23%	2%	22%	7%	6%	0%
Net income	5%	5%	-1%	-7%	-2%	-10%
Minority interest	0%	0%	0%	0%	0%	0%
Net profit (reported)	5%	5%	-1%	-7%	-2%	-10%





Balance sheet (EURm)	2021	2022	2023	2024E	2025E	2026E
Intangible assets (exl. Goodwill)	8.0	13.0	8.1	8.1	8.1	8.1
Goodwill	0.0	0.0	15.3	15.3	15.3	15.3
Property, plant and equipment	127.5	145.3	177.5	183.0	174.7	161.9
Financial assets	14.1	12.8	24.2	24.2	24.2	24.2
FIXED ASSETS	142.5	171.2	225.0	230.5	222.2	209.4
Inventories	2.2	15.8	14.1	5.3	6.6	6.9
Accounts receivable	9.1	27.8	17.0	22.1	25.7	28.2
Other current assets	2.9	3.2	7.1	7.1	7.1	7.1
Liquid assets	39.4	21.4	13.0	13.8	6.3	37.0
Deferred taxes	0.3	0.0	0.0	0.0	0.0	0.0
Deferred charges and prepaid expenses	0.3	0.9	1.3	0.7	0.8	0.9
CURRENT ASSETS	54.2	69.1	52.4	49.0	46.5	80.1
TOTAL ASSETS	196.6	240.2	277.4	279.5	268.7	289.5
SHAREHOLDERS EQUITY	51.7	60.7	69.8	69.7	67.2	56.3
MINORITY INTEREST	-0.1	-0.2	-0.3	-0.3	-0.3	-0.3
Long-term debt	100.0	138.2	164.8	175.0	165.0	195.0
Provisions for pensions and similar obligations	0.0	0.0	0.6	0.7	0.8	0.9
Other provisions	11.1	12.0	13.0	13.4	13.5	14.9
Non-current liabilities	111.1	150.2	178.3	189.1	179.4	210.8
short-term liabilities to banks	28.5	10.4	15.0	15.0	15.0	15.0
Accounts payable	2.3	12.4	14.6	6.0	7.4	7.7
Advance payments received on orders	0.0	0.0	0.0	0.0	0.0	0.0
Other liabilities (incl. from lease and rental contracts)	3.2	4.4	0.0	0.0	0.0	0.0
Deferred taxes	0.0	2.3	0.0	0.0	0.0	0.0
Deferred income	0.0	0.0	0.0	0.0	0.0	0.0
Current liabilities	34.0	29.5	29.6	21.0	22.4	22.7
TOTAL LIABILITIES AND SHAREHOLDERS EQUITY	196.6	240.2	277.4	279.5	268.7	289.5
Balance sheet (common size)	2021	2022	2023	2024E	2025E	2026E
Intangible assets (excl. Goodwill)	0%	5%	3%	3%	3%	3%
Goodwill	0%	0%	6%	5%	6%	5%
Property, plant and equipment	65%	60%	64%	65%	65%	56%
Financial assets	7%	5%	9%	9%	9%	8%
FIXED ASSETS	72%	71%	81%	82%	83%	72%
Inventories	1%	7%	5%	2%	2%	2%
Accounts receivable	5%	12%	6%	8%	10%	10%
Other current assets	1%	1%	3%	3%	3%	2%
Liquid assets	20%	9%	5%	5%	2%	13%
Deferred taxes	0%	0%	0%	0%	0%	0%
Deferred charges and prepaid expenses	0%	0%	0%	0%	0%	0%
CURRENT ASSETS	28%	29%	19%	18%	17%	28%
TOTAL ACCETS	100%	100%	100%	100%	100%	100%
IUIAL ASSEIS						
TOTAL ASSETS SHAPEHOLDERS FOLLITY		25%	25%	25%	25%	
SHAREHOLDERS EQUITY	26%	25%	25%	25%	25%	
SHAREHOLDERS EQUITY MINORITY INTEREST	26% -0%	-0%	-0%	-0%	-0%	-0%
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt	26% -0% 51%	-0% 58%	-0% 59%	-0% 63%	-0% 61%	-0% 67%
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt Provisions for pensions and similar obligations	26% -0% 51% 0%	-0% 58% 0%	-0% 59% 0%	-0% 63% 0%	-0% 61% 0%	-0% 67% 0%
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt Provisions for pensions and similar obligations Other provisions	26% -0% 51% 0% 6%	-0% 58% 0% 5%	-0% 59% 0% 5%	-0% 63% 0% 5%	-0% 61% 0% 5%	-0% 67% 0% 5%
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt Provisions for pensions and similar obligations Other provisions Non-current liabilities	26% -0% 51% 0% 6% 57%	-0% 58% 0% 5% 63%	-0% 59% 0% 5% 64%	-0% 63% 0% 5% 68%	-0% 61% 0% 5% 67%	-0% 67% 0% 5% 73%
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt Provisions for pensions and similar obligations Other provisions Non-current liabilities short-term liabilities to banks	26% -0% 51% 0% 6% 57% 14%	-0% 58% 0% 5% 63% 4%	-0% 59% 0% 5% 64% 5%	-0% 63% 0% 5% 68% 5%	-0% 61% 0% 5% 67% 6%	-0% 67% 0% 5% 73% 5%
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt Provisions for pensions and similar obligations Other provisions Non-current liabilities short-term liabilities to banks Accounts payable	26% -0% 51% 0% 6% 57% 14%	-0% 58% 0% 5% 63% 4% 5%	-0% 59% 0% 5% 64% 5%	-0% 63% 0% 5% 68% 5% 2%	-0% 61% 0% 5% 67% 6% 3%	-0% 67% 0% 5% 73% 5%
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt Provisions for pensions and similar obligations Other provisions Non-current liabilities short-term liabilities to banks Accounts payable Advance payments received on orders	26% -0% 51% 0% 6% 57% 14% 1%	-0% 58% 0% 5% 63% 4% 5% 0%	-0% 59% 0% 5% 64% 5% 5% 0%	-0% 63% 0% 5% 68% 5% 2% 0%	-0% 61% 0% 5% 67% 6% 3% 0%	-0% 67% 0% 5% 73% 5% 3%
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt Provisions for pensions and similar obligations Other provisions Non-current liabilities short-term liabilities to banks Accounts payable Advance payments received on orders Other liabilities (incl. from lease and rental contracts)	26% -0% 51% 0% 6% 57% 14% 1% 0% 2%	-0% 58% 0% 5% 63% 4% 5% 0% 2%	-0% 59% 0% 5% 64% 5% 5% 0%	-0% 63% 0% 5% 68% 5% 2% 0%	-0% 61% 0% 5% 67% 6% 3% 0%	-0% 67% 0% 5% 73% 5% 0% 0%
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt Provisions for pensions and similar obligations Other provisions Non-current liabilities short-term liabilities to banks Accounts payable Advance payments received on orders Other liabilities (incl. from lease and rental contracts) Deferred taxes	26% -0% 51% 0% 6% 57% 14% 1% 0% 2%	-0% 58% 0% 5% 63% 4% 5% 0% 2%	-0% 59% 0% 5% 64% 5% 0% 0% 0%	-0% 63% 0% 5% 68% 5% 2% 0% 0%	-0% 61% 0% 5% 67% 6% 3% 0% 0%	-0% 67% 0% 5% 73% 5% 0% 0%
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt Provisions for pensions and similar obligations Other provisions Non-current liabilities short-term liabilities to banks Accounts payable Advance payments received on orders Other liabilities (incl. from lease and rental contracts) Deferred taxes Deferred income	26% -0% 51% 0% 6% 57% 14% 1% 0% 2% 0%	-0% 58% 0% 5% 63% 4% 5% 0% 2% 1%	-0% 59% 0% 5% 64% 5% 0% 0% 0%	-0% 63% 0% 5% 68% 5% 2% 0% 0% 0%	-0% 61% 0% 5% 67% 6% 3% 0% 0% 0%	19% -0% 67% 0% 5% 73% 5% 0% 0% 0%
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt Provisions for pensions and similar obligations Other provisions Non-current liabilities short-term liabilities to banks Accounts payable Advance payments received on orders Other liabilities (incl. from lease and rental contracts) Deferred taxes Deferred income Current liabilities	26% -0% 51% 0% 6% 57% 14% 1% 0% 2% 0% 0% 17%	-0% 58% 0% 5% 63% 4% 5% 0% 2% 1% 0%	-0% 59% 0% 5% 64% 5% 0% 0% 0% 0%	-0% 63% 0% 5% 68% 5% 2% 0% 0% 0% 0%	-0% 61% 0% 5% 67% 6% 3% 0% 0% 0%	-0 67 0 5 73 5 3 0 0 0
SHAREHOLDERS EQUITY MINORITY INTEREST Long-term debt Provisions for pensions and similar obligations Other provisions Non-current liabilities short-term liabilities to banks Accounts payable Advance payments received on orders Other liabilities (incl. from lease and rental contracts) Deferred taxes Deferred income	26% -0% 51% 0% 6% 57% 14% 1% 0% 2% 0%	-0% 58% 0% 5% 63% 4% 5% 0% 2% 1%	-0% 59% 0% 5% 64% 5% 0% 0% 0%	-0% 63% 0% 5% 68% 5% 2% 0% 0% 0%	-0% 61% 0% 5% 67% 6% 3% 0% 0% 0%	-09 679 09 59 739 59 09 09





Cash flow statement (EURm)	2021	2022	2023	2024E	2025E	2026E
Net profit/loss	-5.9	6.2	-16.3	-6.1	-2.5	-10.9
Depreciation of fixed assets (incl. leases)	10.7	8.9	11.9	12.6	12.8	12.8
Amortisation of goodwill	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	0.0	0.7	0.0	0.0	0.0	0.0
Others	9.0	7.8	13.7	0.6	0.2	1.4
Cash flow from operations before changes in w/c	13.7	23.6	9.3	7.1	10.5	3.3
Increase/decrease in inventory	-1.2	-13.4	5.9	8.8	-1.3	-0.3
Increase/decrease in accounts receivable	-1.6	-10.9	1.5	-5.1	-3.6	-2.5
Increase/decrease in accounts payable	-2.4	5.0	-4.0	-8.6	1.4	0.3
Increase/decrease in other w/c positions	-2.5	-0.5	-5.4	0.6	-0.1	-0.1
Increase/decrease in working capital	-7.6	-19.9	-2.1	-4.3	-3.6	-2.6
Cash flow from operating activities	6.1	3.7	7.2	2.8	6.9	0.7
CAPEX	-8.6	-28.4	-23.3	-18.1	-4.4	0.0
Payments for acquisitions	0.0	-6.2	-3.4	0.0	0.0	0.0
Financial investments	-5.6	0.4	0.0	0.0	0.0	0.0
Income from asset disposals	0.0	0.0	0.0	6.0	0.0	0.0
Cash flow from investing activities	-14.2	-34.3	-26.7	-12.2	-4.4	0.0
Cash flow before financing	-8.1	-30.6	-19.5	-9.4	2.5	0.7
Increase/decrease in debt position	29.8	18.0	14.1	10.2	-10.0	30.0
Purchase of own shares	0.0	0.0	0.0	0.0	0.0	0.0
Capital measures	0.0	0.0	0.0	0.0	0.0	0.0
Dividends paid	0.0	0.0	0.0	0.0	0.0	0.0
Others	-6.9	-8.7	0.0	0.0	0.0	0.0
Effects of exchange rate changes on cash	0.0	0.0	0.0	0.0	0.0	0.0
Cash flow from financing activities	22.9	9.3	14.1	10.2	-10.0	30.0
Increase/decrease in liquid assets	14.8	-21.2	-5.4	0.8	-7.5	30.7
Liquid assets at end of period	32.5	11.3	5.8	6.7	-0.9	29.9

Source: Company data; mwb research

Regional sales split (EURm)	2021	2022	2023	2024E	2025E	2026E
Domestic	0.0	0.0	0.0	0.0	0.0	0.0
Europe (ex domestic)	29.3	89.1	68.9	87.4	101.7	111.6
The Americas	0.0	0.0	0.0	0.0	0.0	0.0
Asia	0.0	0.0	0.0	0.0	0.0	0.0
Rest of World	7.1	5.1	1.7	2.2	2.5	2.8
Total sales	36.4	94.2	70.6	89.6	104.2	114.4

Regional sales split (common size)	2021	2022	2023	2024E	2025E	2026E
Domestic	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Europe (ex domestic)	80.6%	94.6%	97.6%	97.6%	97.6%	97.6%
The Americas	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Asia	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Rest of World	19.4%	5.4%	2.4%	2.4%	2.4%	2.4%
Total sales	100%	100%	100%	100%	100%	100%





Ratios	2021	2022	2023	2024E	2025E	2026E
Per share data						
Earnings per share reported	0.04	0.07	-0.01	-0.10	-0.04	-0.18
Cash flow per share	0.11	0.06	0.12	-0.12	-0.05	-0.15
Book value per share	0.95	0.99	1.14	1.14	1.10	0.92
Dividend per share	0.00	0.00	0.00	0.00	0.00	0.00
Valuation						
P/E	28.8x	14.8x	-138.1x	-10.4x	-24.9x	-5.8x
P/CF	9.2x	17.0x	8.8x	-8.7x	-19.1x	-6.7x
P/BV	1.1x	1.0x	0.9x	0.9x	0.9x	1.1x
Dividend yield (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
FCF yield (%)	10.9%	5.9%	11.4%	-11.5%	-5.2%	-15.0%
EV/Sales	4.2x	2.0x	3.3x	2.7x	2.3x	2.1x
EV/EBITDA	15.9x	7.9x	33.8x	24.5x	17.1x	14.7x
EV/EBIT	-179.0x	13.1x	-44.4x	-85.4x	209.3x	69.4x
Income statement (EURm)						
Sales	36.4	94.2	70.6	89.6	104.2	114.4
yoy chg in %	28.7%	159.1%	-25.0%	26.8%	16.3%	9.8%
Gross profit	23.6	50.1	33.8	65.4	74.2	83.1
Gross margin in %	65.0%	53.1%	47.8%	73.0%	71.2%	72.6%
EBITDA	9.6	24.1	6.8	9.8	13.9	16.2
EBITDA margin in %	26.4%	25.5%	9.7%	11.0%	13.3%	14.2%
EBIT	-0.9	14.5	-5.2	-2.8	1.1	3.4
EBIT margin in %	-2.3%	15.4%	-7.4%	-3.1%	1.1%	3.0%
Net profit	2.0	4.3	-0.5	-6.1	-2.5	-10.9
Cash flow statement (EURm)						
CF from operations	6.1	3.7	7.2	2.8	6.9	0.7
Capex	-8.6	-28.4	-23.3	-18.1	-4.4	0.0
Maintenance Capex	0.0	0.0	0.0	10.1	10.2	10.2
Free cash flow	-2.5	-24.7	-16.1	-15.4	2.5	0.7
Balance sheet (EURm)						
Intangible assets	0.8	13.0	23.3	23.3	23.3	23.3
Tangible assets	127.5	145.3	177.5	183.0	174.7	161.9
Shareholders' equity	51.7	60.7	69.8	69.7	67.2	56.3
Pension provisions	0.0	0.0	0.6	0.7	0.8	0.9
Liabilities and provisions	139.6	160.6	193.4	204.2	194.4	225.8
Net financial debt	89.1	127.3	166.8	176.2	173.7	173.0
w/c requirements	9.0	31.2	16.5	21.4	24.9	27.4
Ratios						
ROE	3.8%	7.0%	-0.7%	-8.7%	-3.8%	-19.3%
ROCE	-0.4%	6.6%	-2.0%	-1.0%	0.4%	1.2%
Net gearing	172.4%	209.6%	239.1%	252.8%	258.7%	307.4%
Net debt / EBITDA	9.3x	5.3x	24.4x	18.0x	12.5x	10.7x





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Company	Disclosure
Photon Energy NV	2, 8





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- Share prices may fluctuate significantly. This is particularly true for shares with low liquidity (market breadth). Even small orders can have a significant impact on the share price.
- In the case of shares in narrow markets, it may also happen that there is no
 or very little actual trading there and that published prices are not based on
 actual trading but have only been provided by a stockbroker.
- In such markets a shareholder cannot expect to find a buyer for his shares at all and/or at reasonable prices. In such narrow markets there is a very high possibility of manipulating prices and in such markets there are often considerable price fluctuations.
- An investment in shares with low liquidity and low market capitalization is therefore highly speculative and represents a very high risk.
- There is no regulated market for unlisted shares and securities and a sale is not possible or only possible on an individual basis.
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