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About Us

We are dedicated to ensuring that everyone has access to clean energy and water





PFAS** patent pending

Water Business Line

(Strategic area of development)

^{*} Rating report can be found under https://www.photonenergy.com/en/photon-energy-group/our-esg-commitments.html

^{**} Per- and polyfluoroalkyl substances



Our Global Presence

Focus on Europe and Australia

Project development

- Project pipeline with a combined capacity of 900+ MWp
- Focus on Hungary, Poland, Romania and Australia

Electricity generation (91.9 MWp)

► 11 proprietary power plants in the Czechia (15.0 MWp), 11 in Slovakia (10.5 MWp), 63 in Hungary (51.8 MWp) and 3 in Australia (14.6 MWp)

O&M (~380 MWp)

- Full Operations and Maintenance services in Czechia, Slovakia,
 Romania, Hungary and Australia (~330 MWp)
- Specialised technical services for PV inverters (~50 MWp)

New Energy Division

- Energy trading licenses in 6 countries
 (Poland, Hungary, Czechia, Romania, Slovakia and Serbia)
- ▶ 290 MW of renewable assets aggregated in Europe, 134 MW of capacity contracted for 2023 and 157 MW for 2027 in Poland.



- Power Plants Owned by Photon Energy Group
- O&M Services for Power Plants
- Inverter Maintenance Services
- Energy Trading License
- Photon Energy Group Offices







Lerta – New Energy Division

We have completed the acquisition of the Polish company to **forward integrate into the energy value chain** in CEE and beyond.

About the transaction

- Photon Energy increased its stake from 24% to a controlling interest of 85.6% as of 31.12.2022 and to 100% on 1 February 2023 keeping the founders on board.
- Lerta's capabilities will help Photon Energy to better access the electricity markets with its own assets and beyond in the future.
- Lerta's experience will foster future **electricity trading**, **capacity market services** and **C&I business** within Photon Energy Group.

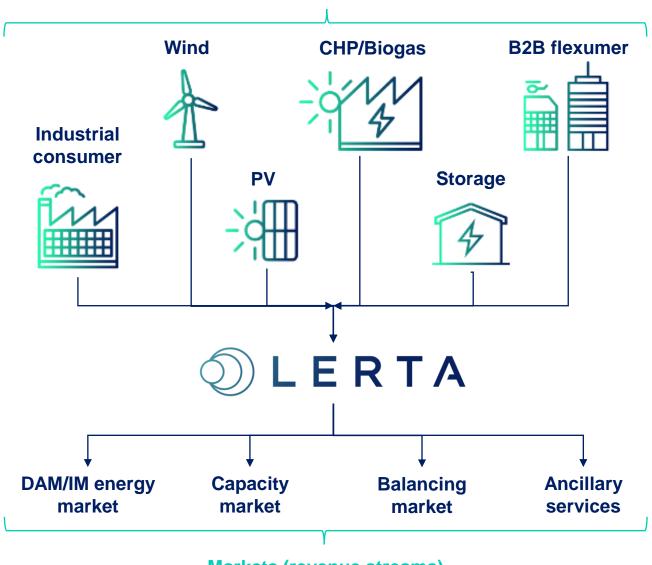


About Lerta



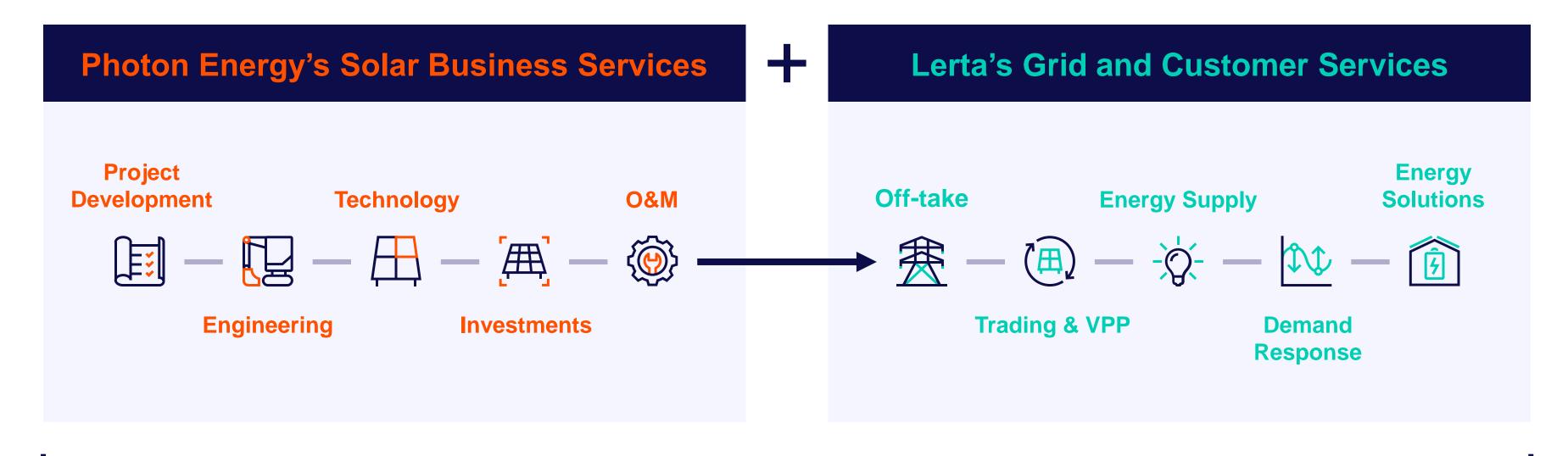
Lerta has energy trading licenses in six European markets, aggregates assets using Virtual Power Plant technology (approx. 290 MW under management), provide grid services including balancing, demand side response and capacity market.

Virtual Power Plant (aggregated assets)





Expansion of Photon Energy's Business Model



The fusion of physical & digital energy to create a customer-centric renewable energy utility.

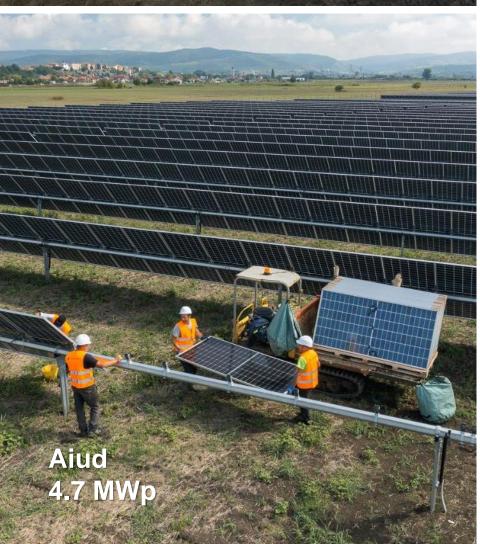




Highlights 2022

- Switch of Czech portfolio to market-linked "Green Bonus" support scheme as of January and switch of 43.5 MWp of our Hungarian PV portfolio to merchant electricity sales as of April.
- Commissioning of a 1.4 MWp power plant in Tolna, Hungary and construction start of our first 8 power plants in Romania, with a combined capacity of 31.5 MWp.
- Our share received three 'buy' recommendations from research houses AlsterResearch (Germany), WOOD & Company (Czech Republic) and IPOPEMA (Poland), respectively.
- EUR 28.1 million long-term refinancing secured for our Czech portfolio and tap of 6.50% Green EUR Bond 2021/2027 by EUR
 22.5 million to EUR 77.5 million in Q2 and Q4.
- Repayment of our 7.75% corporate bond 2017/2022 on 27 October 2022.
- Acquisition of a **9.8 MWp** and **10 MWh solar & battery storage project** in Australia.
- ▶ Increase of investment into LERTA to a 100% ownership.











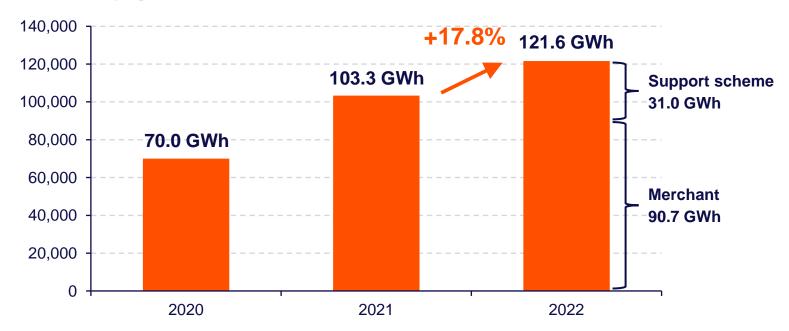


Business Development

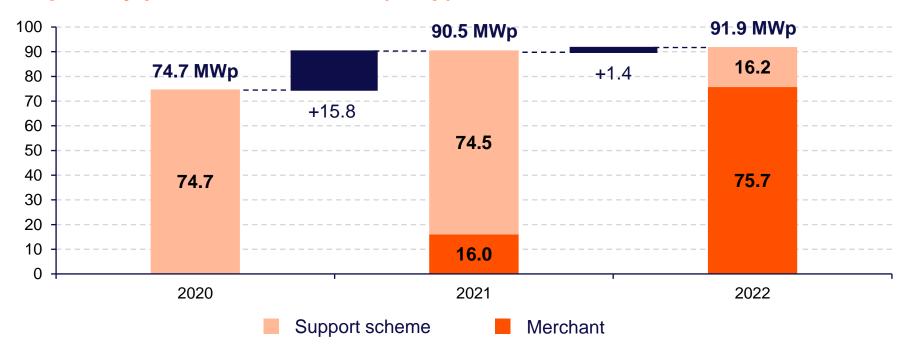
Continued progress across all segments

- ▶ 121.6 GWh of electricity (+17.8% YoY) generated by our proprietary power plant portfolio in 2022.
- Connection of 1.4 MWp in Tolna, Hungary in May; a fully merchant project.
- First ground-breaking in Romania. 8 projects with a combined capacity of 31.5 MWp built and undertaking the commissioning process.

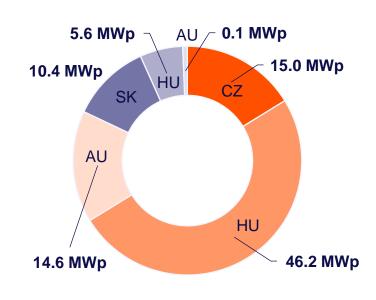
Electricity generation total portfolio



Proprietary portfolio, cumulated (MWp)



Market exposure



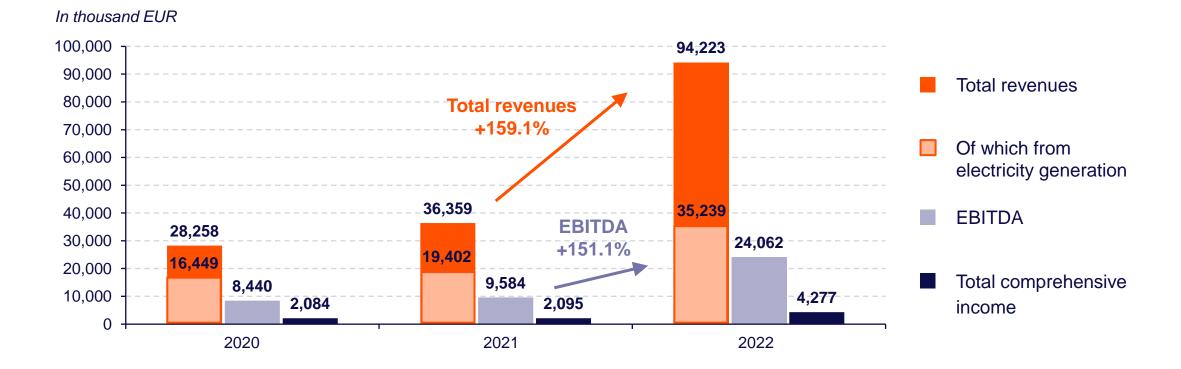
| Country | Revenue model | Realized Revenue per MWh |
|----------------|------------------------|--------------------------|
| Czech Republic | Green Bonus + Merchant | EUR 805 |
| Hungary | Merchant | EUR 288 |
| Australia | Merchant | EUR 107 |
| Slovakia | FIT | EUR 263 |
| Hungary | FIT | EUR 94 |
| Australia | FIT | EUR 237 |



Q4 2022 and FY 2022 Financial Results

Income Statement

| In thousand EUR | Q4 2021 | Q4 2022 | Change in % | FY 2021 | FY 2022 | Change in % |
|--------------------------------------|---------|---------|-------------|---------|---------|-------------|
| Total revenues | 11,734 | 26,438 | 125.3% | 36,359 | 94,223 | 159.1% |
| of which from electricity generation | 3,008 | 3,820 | 27.0% | 19,402 | 35,239 | 81.6% |
| EBITDA | 1,030 | 1,209 | 17.3% | 9,584 | 24,062 | 151.1% |
| EBIT | -621 | -355 | nm | -712 | 14,549 | nm |
| Net profit/Net loss | -991 | -3,768 | nm | -6,433 | 2,785 | nm |
| Total comprehensive income (TCI) | 977 | -2,081 | nm | 2,096 | 4,277 | 104.1% |



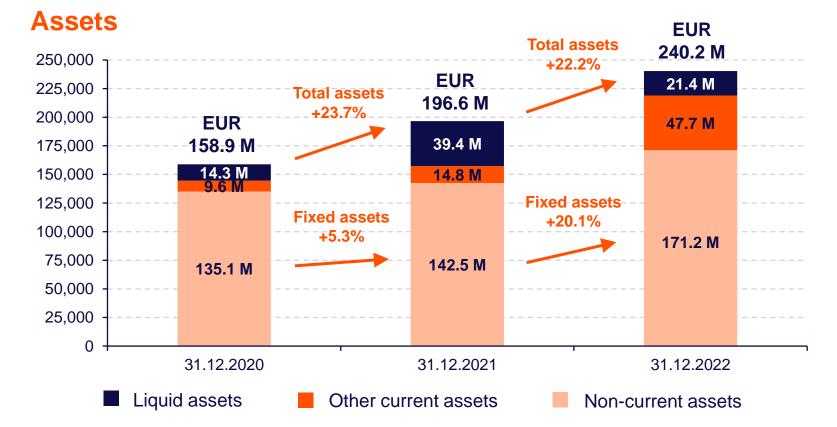
- ► In 2022, the Company exceeding its guidance for revenues of EUR 85.0 million and met its guidance for EBITDA of EUR 24.0 million.
- ➤ Year to date, the Company's net profit came in at EUR 2.785 million, compared to a EUR –6.433 million loss for the same period last year.



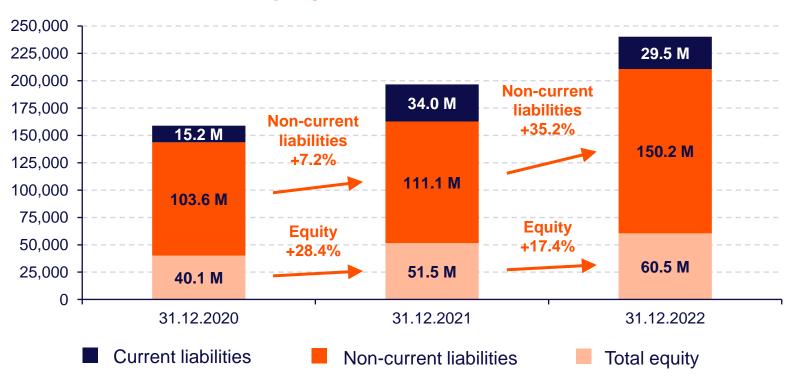
Q4 2022 and FY 2022 Financial Results

Balance Sheet

- Increase of Fixed assets: mainly resulting from the increase of our assets in progress in Romania by EUR 24.7 million, and the recording of EUR 12.5 million intangible assets reflecting the acquisition of Lerta.
- Increase of Current assets connected to our business growth, and our procurement strategy.
- **Equity** increase reflecting the TCI for the period and the transfer of treasury shares in line with the Lerta acquisition.
- Long term liabilities increased due to an increased placement of our EUR Green bond amounting (EUR 10.0 million in Q2 and EUR 12.5 million in Q4), a long-term project refinancing agreement for our Czech portfolio for EUR 28.1 million.
- ▶ Decrease of Current liabilities due to the repayment of the Group's EUR bond 2017/22, offset by an increase in trade and other payables and the reclassification of our CZK bond 2016/23 to be repaid on 13 December 2023.



Total liabilities and equity



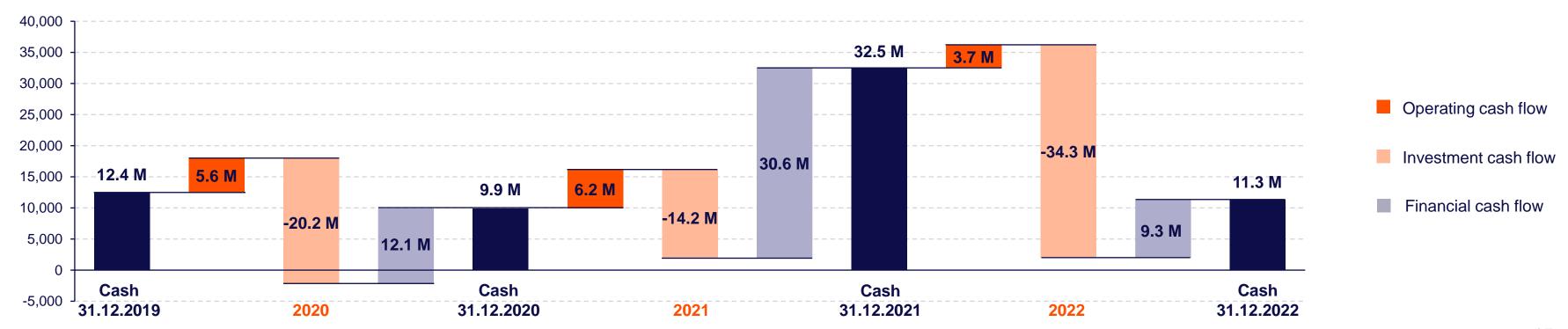


Q4 2022 and FY 2022 Financial Results

Cash Flow

| In thousand EUR | 2020 | 2021 | 2022 |
|----------------------|---------|---------|---------|
| Operating cash flow | 5,562 | 6,221 | 3,737 |
| Investment cash flow | -20,171 | -14,233 | -34,290 |
| Financial cash flow | 12,097 | 30,625 | 9,314 |
| Net change in cash | -2,512 | 22,613 | -21,239 |

- Positive Operating cash flow driven by operating result adjusted by negative net working capital, including increased inventories in line with the strong growing Technology sales and our procurement strategy.
- Increased investment cash flow related to work in progress for our proprietary portfolio in Romania and Hungary, and the acquisition of Lerta S.A..
- Financial cash flow impacted by our long-term project refinancing in the Czech Republic, the additional placement of our EUR Green bond 2021/27, scheduled repayments, and the repayment of our EUR Bond 2017/22.



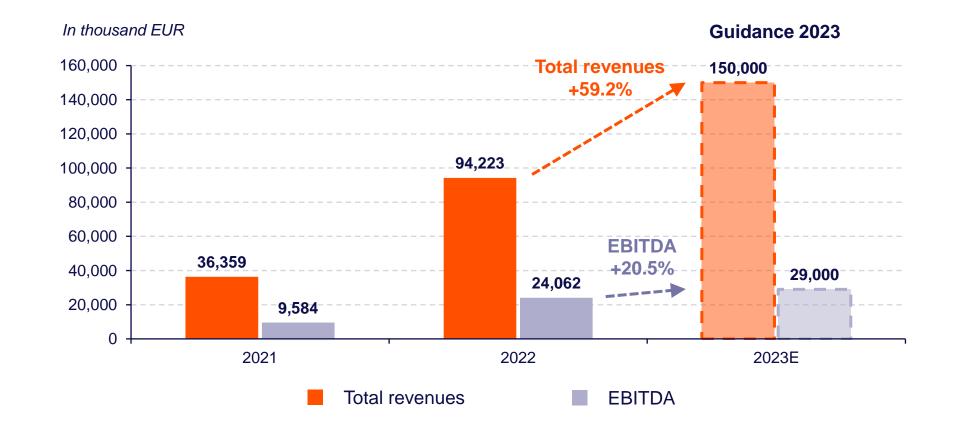




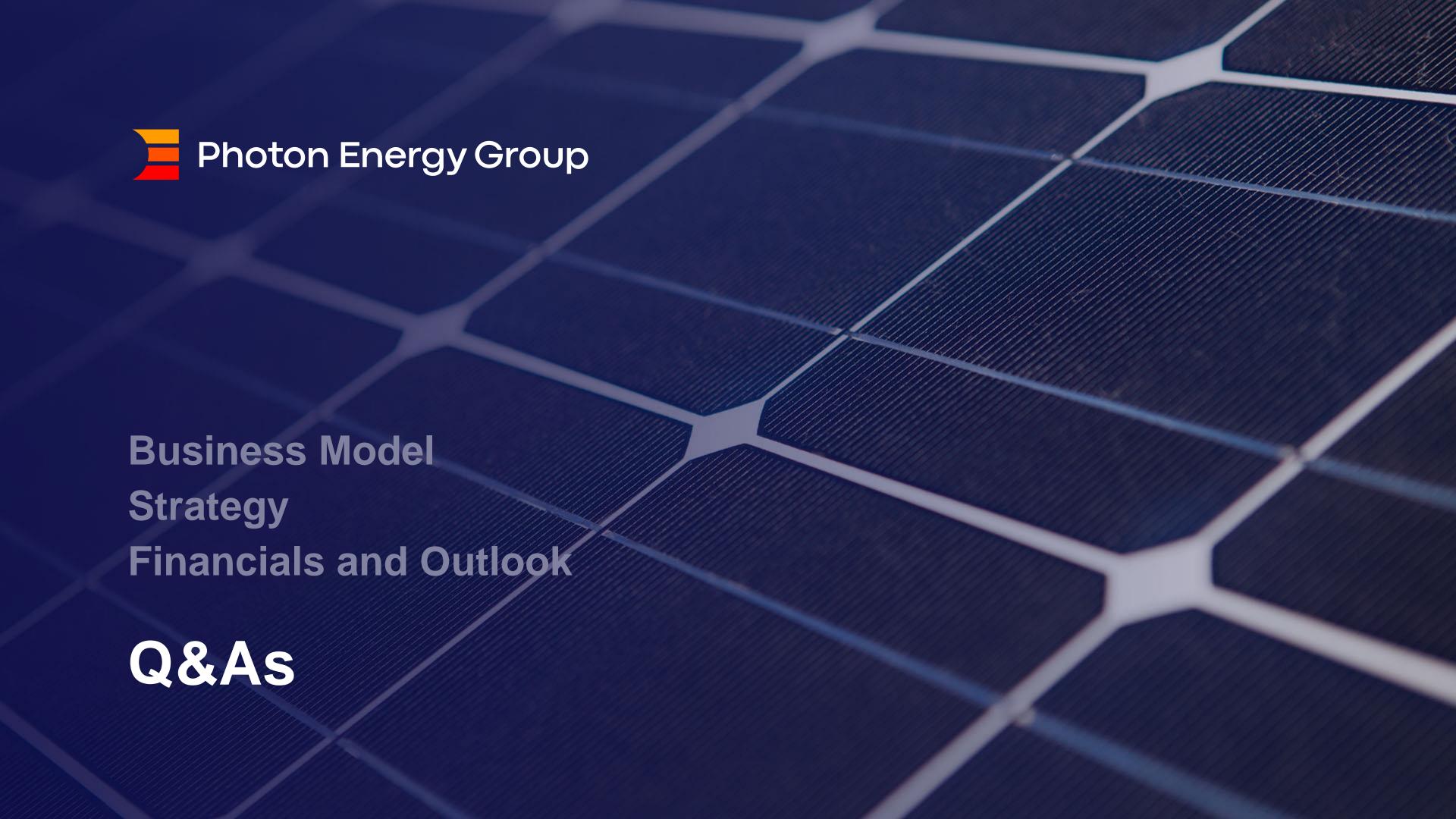
Photon Energy: Outlook for 2023

Revenue and EBITDA Guidance

- Revenues projected to reach EUR 150.0 million representing a 59.2% increase YoY.
- Leading to a 20.5% YoY **EBITDA** increase to **EUR 29.0** million.
- With the expansion of our business model by the recent acquisition of Lerta, our mid-term guidance is under revision.









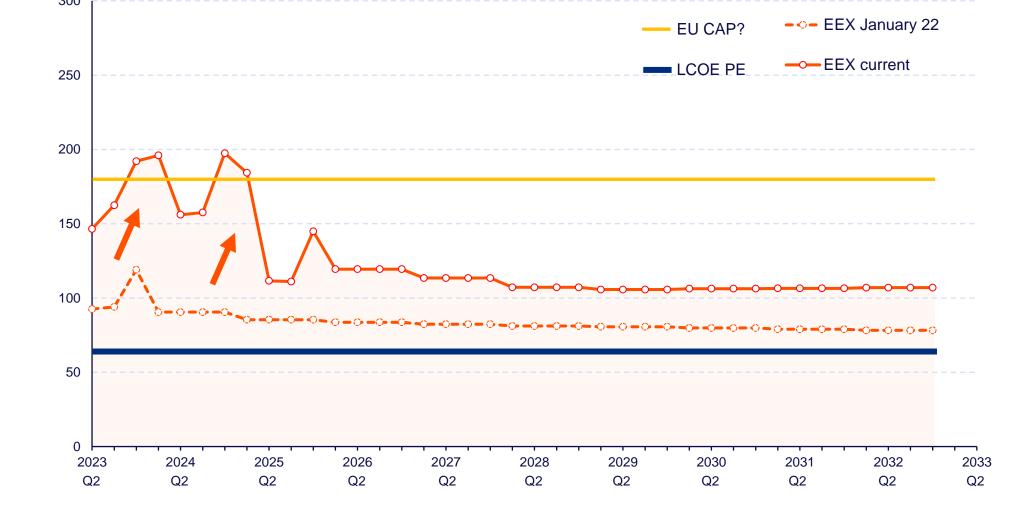
Annex



The Future of Our Business is the Energy Market

High energy prices in our key markets

| Key Figures | Electricity spot price / daily average 31 January 2023 | Electricity Forward price 2024 |
|----------------|--|--------------------------------|
| Romania | ~153 EUR per MWh | ~180 EUR per MWh |
| Poland | ~123 EUR per MWh | ~166 EUR per MWh |
| Hungary | ~152 EUR per MWh | ~187 EUR per MWh |
| Czech Republic | ~144 EUR per MWh | ~179 EUR per MWh |
| Slovakia | ~153 EUR per MWh | ~184 EUR per MWh |
| Australia | ~84 EUR per MWh | ~110 EUR per MWh |



Comparison German Base Load Price EEX in EUR/MWh

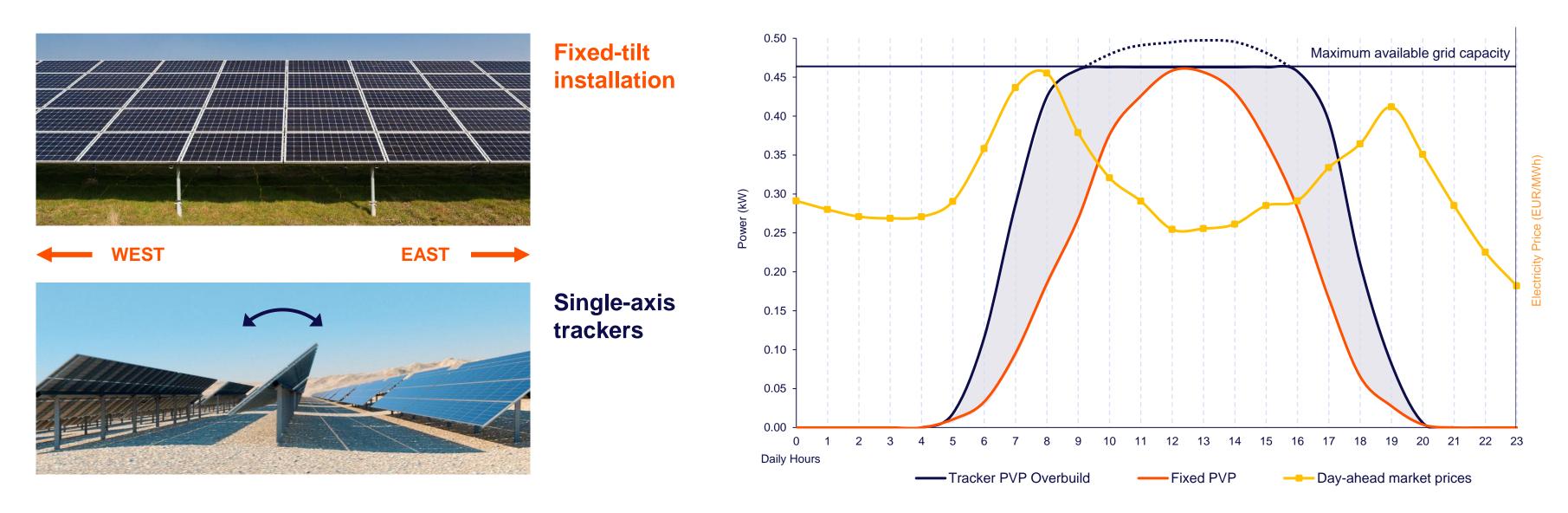
Current Levelized Cost of Electricity (LCOE) is between 60 and 70 EUR per MWh.

Increasing energy prices and declining LCOE give a chance of operating on mentioned PV markets **independently of support schemes** – similarly to conventional energy sources through "**market approach**". This fact may significantly boost further development of local solar markets.



Overbuilding and Using Trackers Makes the Investment More Attractive

Daily production profile (fixed and trackers) vs HUPX DAM hourly electricity prices



Higher electricity production during morning and evening hours when electricity prices are more attractive => higher total revenues

Source: Company, www.hupx.hu/en



Business Model: Solar Services

Our services cover the entire lifecycle of photovoltaic systems.



Project Development

We develop projects in-house and acquire them at all stages of development.

Operations and Maintenance

We provide a full range of O&M services, including **monitoring** and **inverter maintenance**.



Engineering (EPC)

We design and build on- and off-grid installations, including energy storage solutions.



We invest in PV power plants for the **sustainable** production and sale of **solar energy.**



Technology

We procure and trade **PV components** to fit any project's location, design and budget.





Business Model: Water Services

Our comprehensive services and solutions help to make clean water accessible to everyone.



Treatment

We deliver treatment solutions including potable and wastewater treatment, hazardous liquid waste and industrial water treatment.

Remediation

We offer a range of remediation services, including our unique nanoremediation solution (including PFAS*), to eliminate contaminants from water and soil.



Wells and Resources

We provide complete services for wells and water resources, from planning and design to maintenance and decommissioning.



Research and Development

We work with leading academic institutions and participate in governmental research programmes to develop cutting-edge clean water solutions.



Water Resource Management

We help our customers make the best, most efficient use of their water resources, such as lakes, ponds and industrial water bodies.

* Per- and polyfluoroalkyl substances.



RayGen Technology to Accelerate Further Capacity Growth



About the technology

- RayGen has combined its proprietary solar technology,
 PV Ultra, with its unique storage system, Thermal Hydro.
- ► The PV Ultra system generates both electricity and heat by focusing sunlight onto tower-mounted PV receivers.
- ► Thermal Hydro uses hot- and cold-water reservoirs to store the thermal and electrical energy generated by PV Ultra.
- The storage system can then be used to drive a heat-to-power engine, which provides reliable, on-demand power.

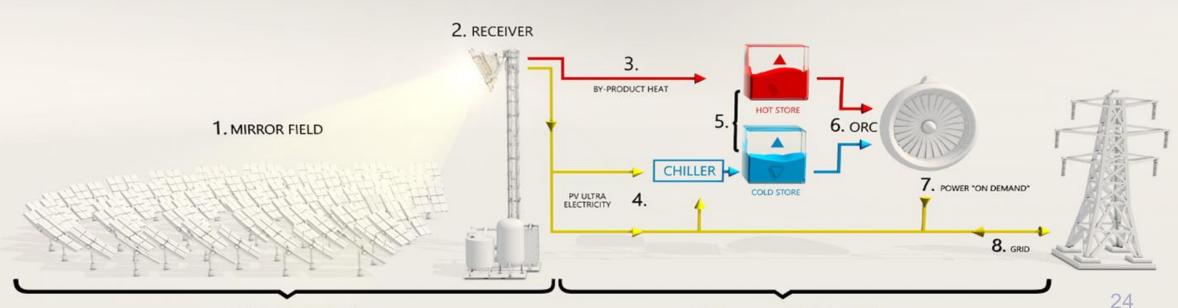
About our partnership

PV ULTRA SYSTEM

- Photon Energy made a minority equity investment in the company in April 2020 and participated in second financing round with AGL, Schlumberger, Chevron, Equinor and others in April 2021.
- Photon Energy will act as a project developer and EPC contractor and an potential equity investor.
- Photon Energy is currently working on the development of a 300 MWp / 3.6 GWh solar-plus-storage project, which will exceed the 3 GWh capacity of the Ouarzazate Solar Power Station in Morocco, which currently has the world's largest energy storage capacity of any type, excluding pumped hydro.

THERMAL HYDRO SYSTEM







Photon Water – Business Opportunity Still Not Priced In

Nano-remediation is our answer to the global problem of PFAS contamination in ground water

Definition of Global Hazard

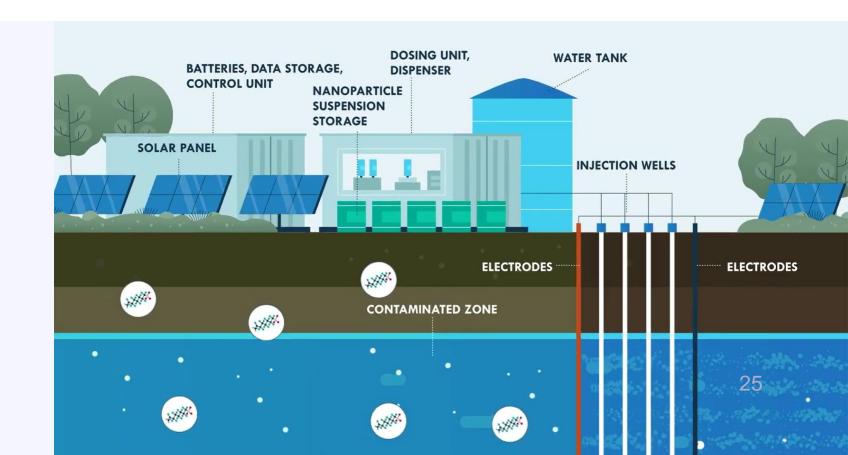
Per- and polyfluorinated substances (PFAS) – group of chemicals used to make various industrial and household products. PFASs can migrate into liquids in the landfill, further moving into leachate collection systems and/or directly into the natural environment. PFAS do not break down naturally, and they pose a serious risk to people health and environment.

Our Nano-remediation solution

It is a **proprietary patent-pending solution**, which enables in-site removal of PFAS from groundwater without the need for pumping and surface treatment or disposal processes. The Company signed **an agreement with the Australian Department of Defense**, on the basis of which the trial is performed to confirm the efficacy of this technology.

Perspective Markets:

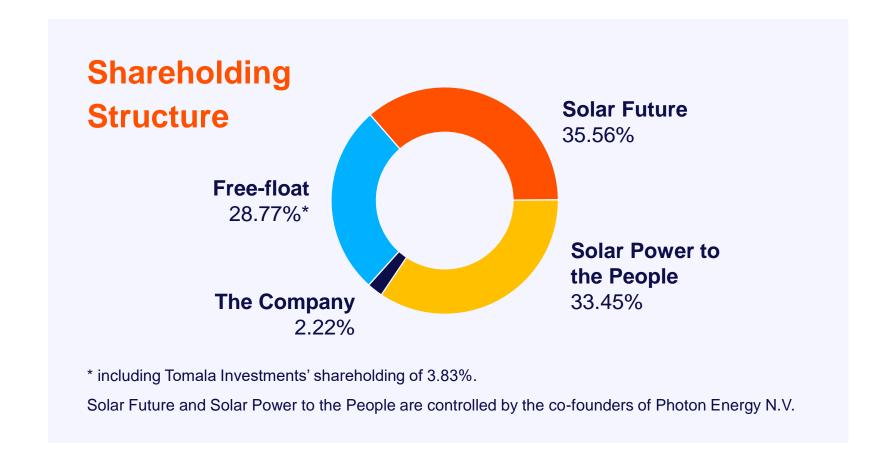
- Australia is expected that the liquid waste market will grow at the level of 3–5% annually, whilst selected segments such as PFAS/PFOA are projected to grow at rates over 100% per annum.
- Europe compared to Australia, European market is at the earlier stage of defining and handling the PFAS contamination issue, but a similar market development path is expected.





Our Share

| ISIN | NL0010391108 |
|-----------------------------|-----------------|
| Shares outstanding | 61,238,521 |
| Shares in free-float | 17,618,192 |
| Market cap 01.02.2023 | EUR 159 million |
| Net debt 31.12.2022 | EUR 128 million |
| Enterprise value 01.02.2023 | EUR 287 million |



Research

| Institution | Rating | | Target Price* | |
|----------------|--------|----------|---------------|---------|
| AlsterResearch | Buy | EUR 4.40 | PLN 20.64 | CZK 106 |
| IPOPEMA | Buy | EUR 3.11 | PLN 14.58 | CZK 75 |
| WOOD & Company | Buy | EUR 4.37 | PLN 20.50 | CZK 105 |

^{*}Prices in bold stated by research reports; other currencies included for reference.

- Photon Energy is listed on the regulated markets of Prague and Warsaw Stock Exchanges.
- Additionally, it is listed on XETRA in Frankfurt and in alternative system of trading on stock exchanges in Berlin, Munich and Stuttgart.
- Photon Energy adheres to the Dutch Corporate Governance Code and the Best Practices of the Warsaw Stock Exchange.



GREEN EUR Bond 2021/27

| Bond | GREEN EUR Bond 2021/2027 | | |
|-------------------|--|---------------------------------------|-------------------------|
| Volume | EUR 77.5 million | | |
| Coupon | 6.50% p.a., quarterly payment | | Best Issuer |
| Initial offering | 23 November 2021 | | |
| | IMUG rating – <u>second party opinion</u>, | | Green SME Bonds 2021 |
| Ratings/Awards | KFM Barometer 4 of 5 stars | | 2021 |
| | ► Best Issuer Green SME Bonds 2021 | | |
| Segment | Secondary market: trading on Open Market of the Frankfurt Stock Exchange since 2 | 23 November 2021 | Photon Energy Group |
| | Dividend restriction (max 50% if EBITDA/ICR > 2) | | BOND MAGAZINE |
| | Group Equity ratio ≥ 25%* | | |
| | Cross default | | |
| Covenants | Negative pledge | KFM-Barometer | |
| | Pari passu | Mittelstandsanleihen November 2021 | |
| | Change of Control-Clause | | **** |
| | Transparency clause | 6,50%-Anleihe | |
| Denomination | EUR 1,000 | Photon Energy N.V. | A44 |
| Term / Redemption | Six years / 23 November 2027 at par | Anleihe 21/27, WKN A3KWKY | Attraktiv (4 von 5) |
| ISIN | DE 000A3KWKY4 | | |

^{*} The Group defines and calculates adjusted equity ratio as total equity divided by the sum of interest-bearing debt and equity.