

Photon Energy Lauru Badita — Country Manager

5 May 2020

WHO WE ARE



We develop, build, own and operate PV power plants worldwide



Founded 2008



Headquartered in **Amsterdam**



120+ Employees



Active in 10+ countries



Shares traded in PL and CZ



80+ MWp
PV plants installed



Own portfolio **57.1 MWp**



43.8 GWh produced in 2019



O&M services
300 MWp

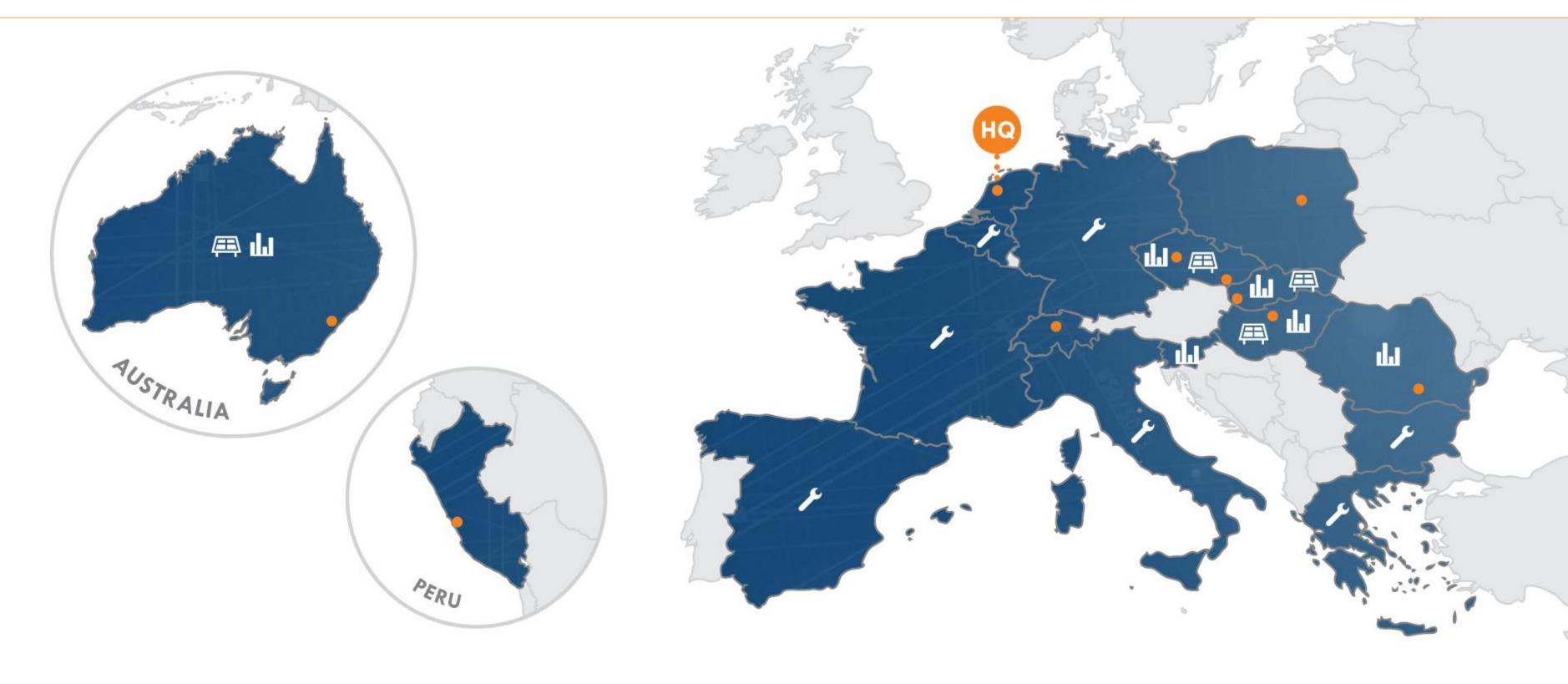


Separate business line
Water treatment



GLOBAL PRESENCE





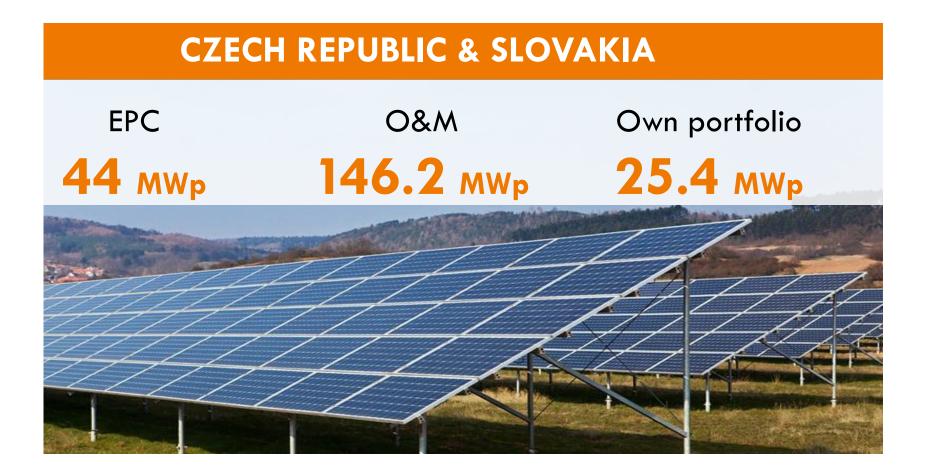






OUR KEY MARKETS











LIFECYCLE EXPERTISE



We manage projects from start to finish

PROJECTS

Project development for rooftop and green-field installations from 300 kWp to 300 MWp

SOLUTIONS Design and construction of 24 h on-grid and off-grid installations, ıılı including battery storage solutions **TECHNOLOGY Trading of PV components**

OPERATIONS

Operations and maintenance of PV power plants, including own control room and monitoring platform

INVESTMENTS

Investments in PV power plants for the sustainable production and sale of solar energy

PROJECTS



Project development from concept to completion

We develop green fields from scratch and acquire PV projects at all stages of the project development process.

- Land acquisition
- Administration and legal landscape
- Permitting and implementation

- Joint ventures
- Partnerships with banks and investors



Australia

- Project pipeline of 738 MWp
- Rooftop installations, including an ongoing 4.6 MWp project for ALDI stores
- Co-development of 3 large-scale PV projects of 580 MWp with Canadian Solar
 Canadian Solar

Hungary

- Project pipeline of 17.7 MWp
- 46 power plants built and connected with a total capacity of 31.5 MWp; goal of 75 MWp by 2021
- Cooperation with local developers and banks:
 long-term project financing secured for 11.5 MWp

SOLUTIONS



We design and build power plants with quality and longevity in mind

- Consultancy and yield studies
- Concept design
- Project planning and management
- Counterparty negotiations and contracting
- Turn-key construction of PV projects
- Customised off-grid solutions

Czech Republic	30.4 MWp
Slovakia	13.6 MWp
Hungary	31.5 MWp
Australia	5.9 MWp
Germany	1.4 MWp
ltaly	1.3 MWp
EPC DELIVERED	80.6 MWp



TECHNOLOGY



We procure Tier 1, world-class technology

- High-quality, bankable crystalline modules
- High-performance mono PERC modules from Longi Solar,
 JA Solar and Jinko Solar
- Powerful and robust inverters
- Integrated power storage and backup systems
- Monitoring and control devices







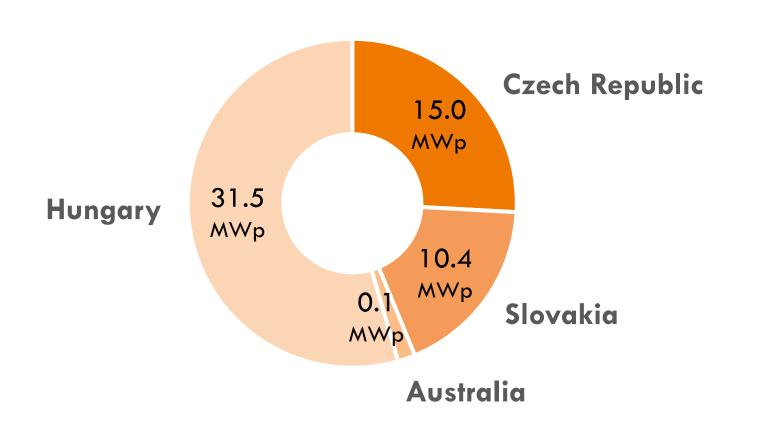




INVESTMENTS



We own PV plants with 57.1 MWp in our proprietary portfolio



Expansion of proprietary portfolio from 57.1 MWp to 115 MWp by 2022

Hungary	75 MWp
Australia	15 MWp
Czech Republic	15 MWp
Slovakia	10 MWp
Target portfolio by 2022	115 MWp



OPERATIONS & MAINTENANCE



We take care of 300 MWp of solar assets

Our O&M services are always set up to achieve the highest possible production and performance throughout its lifespan.



Preventive maintenance



Service interventions



Compliance & Reporting



Performance monitoring



Accounting services



Security support





MONITORING AND CONTROL



Maximise yield while minimising cost

We developed a fully-integrated solar monitoring solution with intelligent software that provides comprehensive monitoring and control of your PV power plants.

- Optimises installation and hardware costs
- Detects threats in a timely manner
- Used by industry-scale owners, operators and investors
- Connects to external systems free of charge



- Provides expert technical support available 24/7
- Delivers reporting and notifications



SWITCHBOARD



PLC PE115S

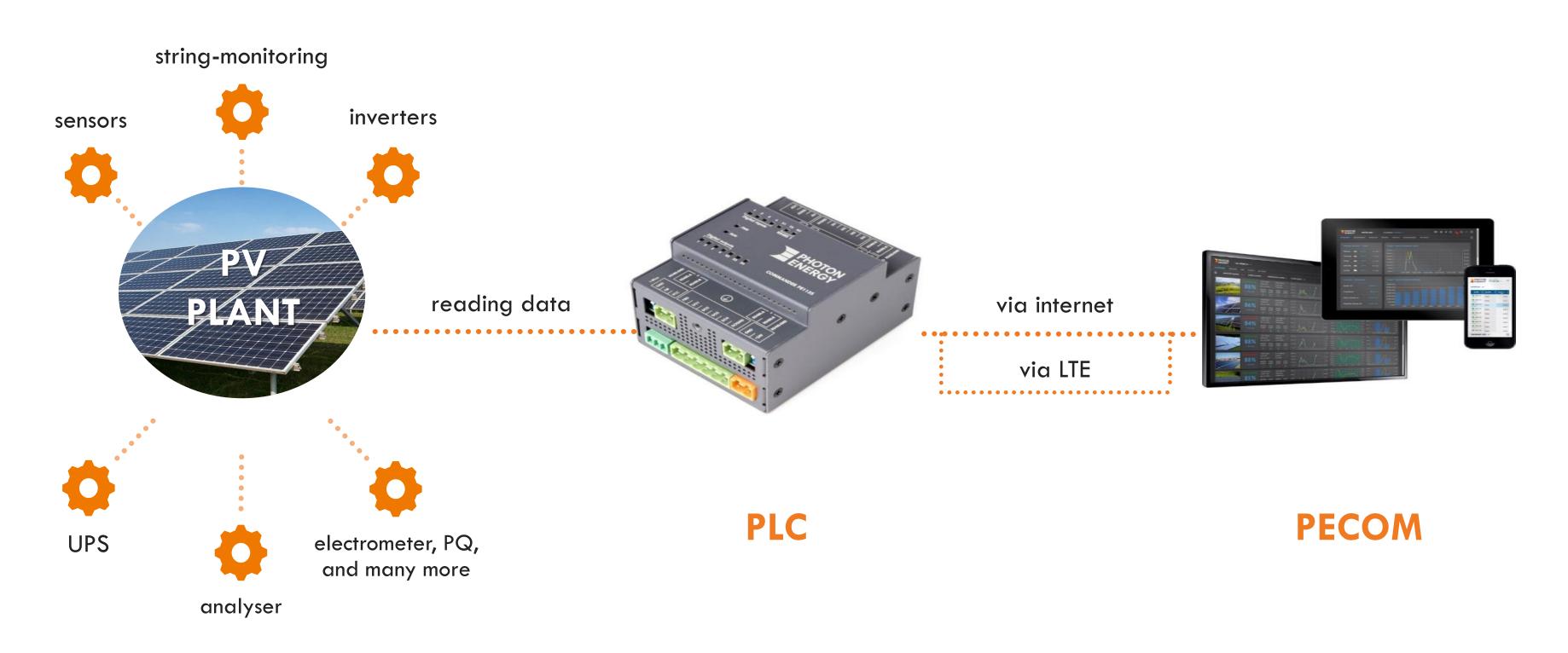
- Developed by Photon Energy
- Programmable for all industry sectors
- Compatible with different devices and technologies
- Connects up to 150 inverters
- Fully modular open platform
- Four digital and two analog inputs
- 1 GB of RAM and 8 GB internal memory



PHOTON ENERGY ONE



PVP COMUNICATION & PLC



PHOTON WATER TECHNOLOGY



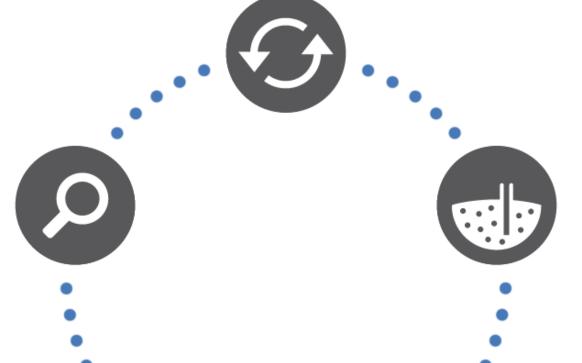
Applying our PV expertise to power our clean water solutions

PURIFICATION AND TREATMENT

Drinking water treatment using near-nature methods, emergency units, recycling of gray water

RESEARCH AND DEVELOPMENT

Close cooperation with leading academic institutions, participation in national and EU research programmes



CONTAMINATED LAND REMEDIATION

Nanoremediation, steam enhanced extraction, reactive barriers, in-situ remediation, design services, monitoring

WATER RESOURCES

Complete services including new resources, pumping tests, well diagnostics, regeneration, remediation and decommissioning of wells



WATER MANAGEMENT

Studies and projects, storm water, self-operating sites, small water reservoirs and watercourses, flood protection and prevention, algae control



Largest project to date

Tuřany Airport, Czech Republic

7.5 MWp, 2010 (EPC)

21 MWp, 2010 (Procurement provided for total capacity)





Ground-mounted power plants

Monor, Hungary

5.6 MWp, 2019 (EPC, O&M)

2.1 MWp, 2019 (EPC, O&M)

Almásfüzitő, Hungary

5.5 MWp, 2019 (EPC, O&M)



Nagyecsed, Hungary

Fertőd II, Hungary

3.5 MWp, 2019 (EPC, O&M)





Ground-mounted power plants

Tiszakéscke, Hungary



1 MWp, 2012 (EPC)

Les Mees, France

18 MWp, 2014 (O&M)



Ellrich, Germany





Ráztoka, Slovakia

1 MWp, 2011 (EPC)





Rooftop installations

ALDI stores, Australia

4.6 MWp, 2019 (EPC, O&M)



200 kWp, 2016 (EPC, O&M)



Biella, Italy

1 MWp, 2012 (EPC, O&M)



Sydney, Australia

283 kWp, 2012 (EPC, O&M)







Solar storage

Muswellbrook, Australia
39 kWp / 216 kWh, 2014 (EPC, O&M)

Project designed in association with the German Energy Agency, Deutsche Energie-Agentur GmbH (dena), and the Australian communications infrastructure company BAI.



OUR VISION



Building a brighter future

- Contributing to major growth phase in the Australian
 PV market driven by large-scale and commercial-scale solar projects
- Building our proprietary portfolio in emerging markets

- Further solidifying our position as a leading O&M provider in the CEE region
- Continue developing innovative solar solutions
- Expanding our sustainable water treatment solutions



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EXPERTS FOR THE SOLAR AGE