

PHOTON ENERGY

Oradea

15 Octombrie 2019

WHO WE ARE



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



Founded
2008



Headquartered in
Amsterdam



100+
Employees



Active in
10+ countries



Shares traded
in PL and CZ



60+ MWp
PV plants installed



Own portfolio
39.2 MWp



28.5 GWh
produced in 2018



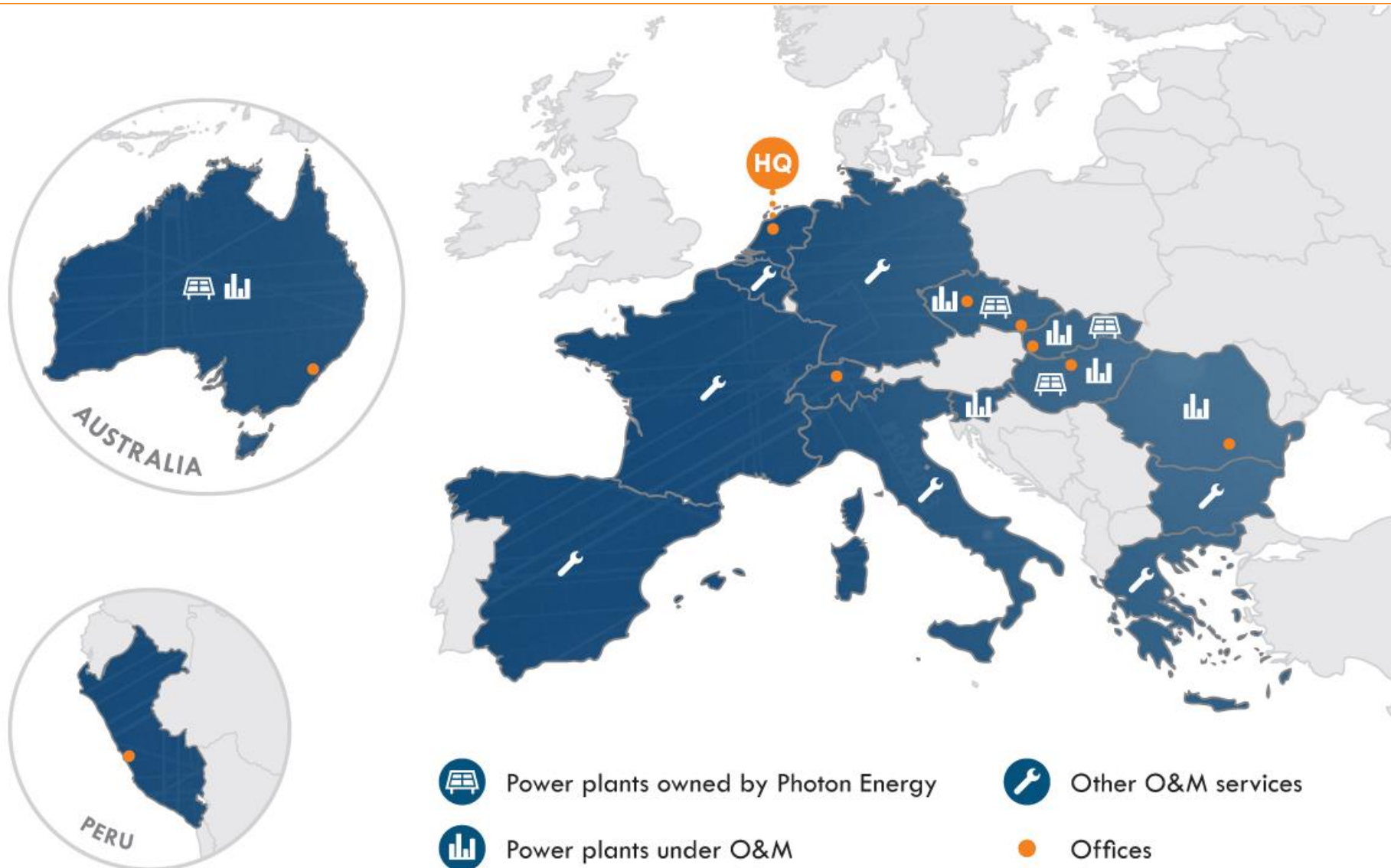
O&M services
250+ MWp



Separate business line
Water treatment



GLOBAL PRESENCE



OUR KEY MARKETS



CZECH REPUBLIC

EPC	O&M	Own portfolio
30.4 MW _p	127.8 MW _p	15.0 MW _p



SLOVAKIA

EPC	O&M	Own portfolio
13.6 MW _p	15.9 MW _p	10.4 MW _p



HUNGARY

EPC	O&M	Own portfolio
13.6 MW _p	33.0 MW _p	13.6 MW _p

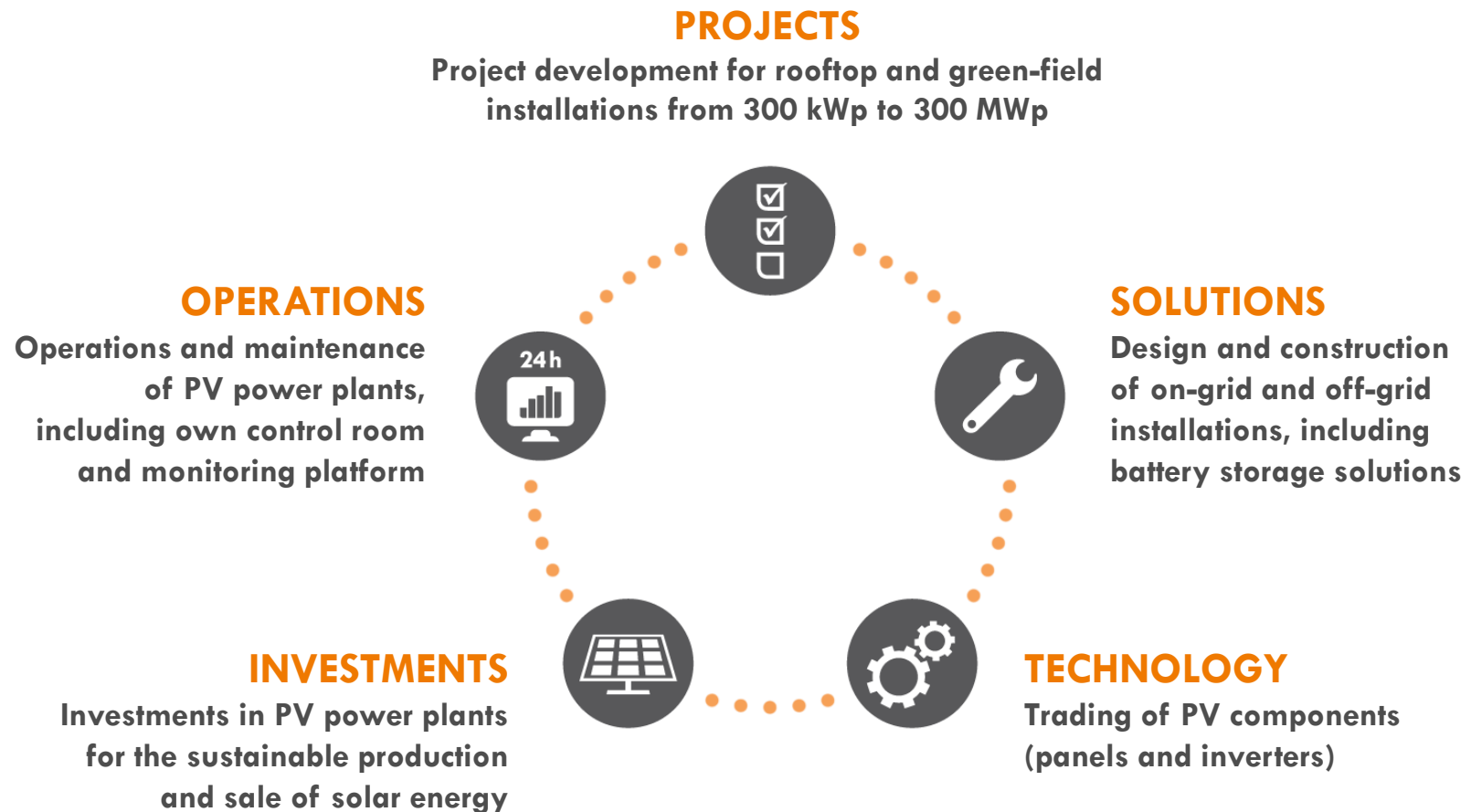


AUSTRALIA

EPC	O&M	Own portfolio
1.4 MW _p	1.4 MW _p	0.1 MW _p



We manage projects from start to finish



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 884 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



Hungary

- Project pipeline of 35.8 MWp
- 20 power plants built and connected with a total capacity of 13.6 MWp; goal of 75 MWp by 2021
- Cooperation with local developers and banks: long-term project financing secured for 11.5 MWp

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

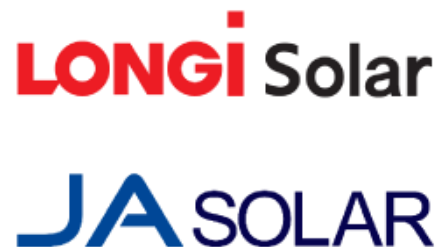
Czech Republic	30.4 MWp
Slovakia	13.6 MWp
Hungary	13.6 MWp
Australia	1.4 MWp
Germany	1.4 MWp
Italy	1.3 MWp
EPC DELIVERED	61.7 MWp



TECHNOLOGY

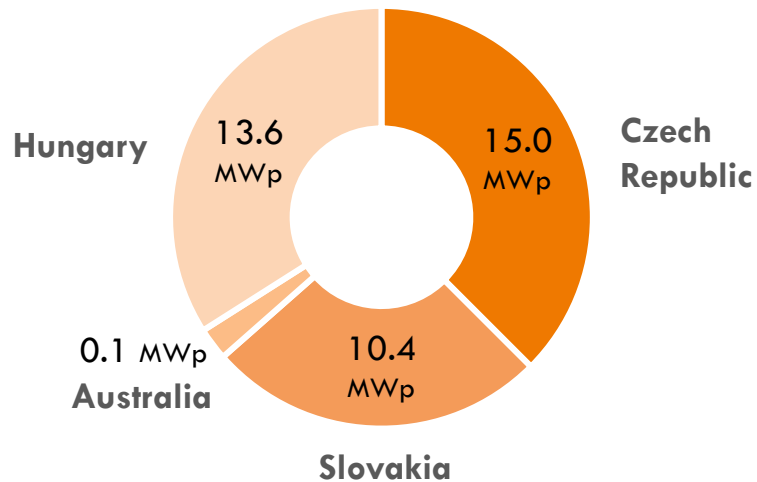
We procure Tier 1, world-class technology

- 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 39.2 MWp in our proprietary portfolio



**Expansion of proprietary portfolio
from 39.2 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 more than 250 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



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

WATER RESOURCES

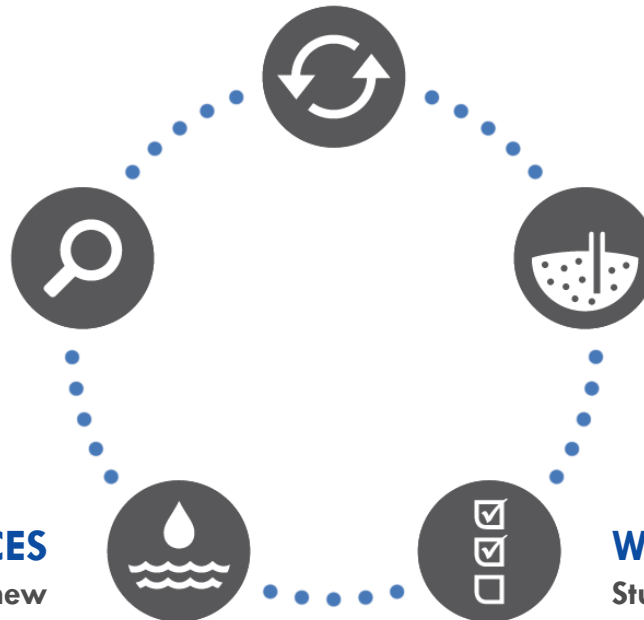
Complete services including new
resources, pumping tests, well
diagnostics, regeneration, remediation
and decommissioning of wells

CONTAMINATED LAND REMEDIATION

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

WATER MANAGEMENT

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



REFERENCES



Largest project to date

Tuřany Airport, Czech Republic

7.5 MWp, 2010 (EPC)

21 MWp, 2010 (Procurement provided for total capacity)



REFERENCES

Ground-mounted power plants

Almásfüzitő, Hungary

5.5 MWp, 2019 (EPC, O&M)



Tiszaúrszék, Hungary
5.5 MWp, 2018 (EPC, O&M)



Les Mees, France
18 MWp, 2014 (O&M)



Ráztoka, Slovakia
1 MWp, 2011 (EPC)



REFERENCES

Rooftop installations

ALDI stores, Australia

4.6 MWp, 2019 (EPC, O&M)



Symonston, Australia
200 kWp, 2016 (EPC, O&M)



Biella, Italy
1 MWp, 2012 (O&M)



Sydney, Australia
283 kWp, 2012 (EPC, O&M)



REFERENCES

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.