





AGENDA

INTRODUCTION

RENEWABLES IN AUSTRALIA

AUSTRALIAN
SOLAR MARKET

OUR PROJECTS





PHOTON ENERGY GROUP

A global solar power solutions and services company

- Wide ranging expertise covering the entire lifecycle of solar power systems.
- Extensive track record and know-how in the development, planning and construction of solar power plants, as well as operations and maintenance, insurance, investment management and protection.
- Founded in Prague in 2008, headquartered in the Netherlands & 61 professionals in 5 offices worldwide.
- O&M services supplied for 200+ MWp.
- Own portfolio of power plants of 26 MWp in Europe and Australia

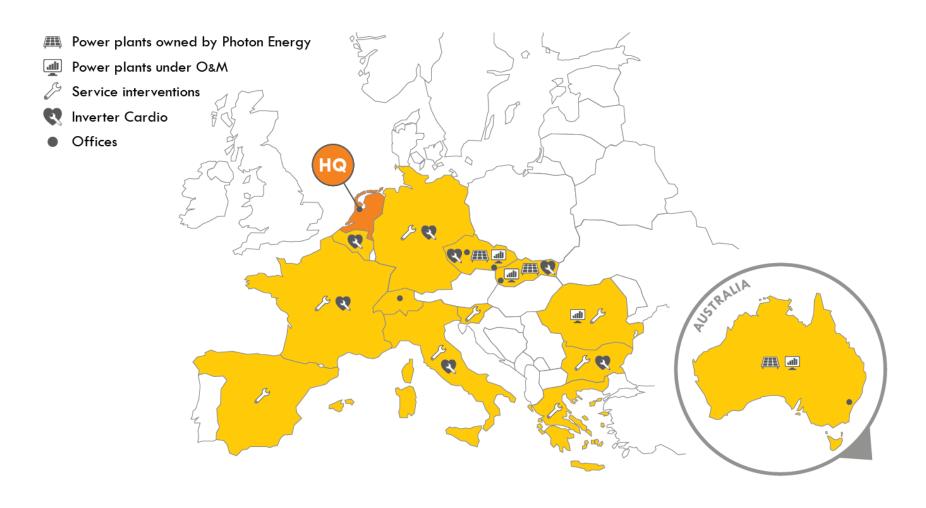


- Publicly listed company in Warsaw and Prague (ISIN NL0010391108).
- Publicly traded bonds on Stock Exchanges in Germany and Austria (ISIN DE000A1HELE2) and Prague (ISIN CZ0000000815).



GLOBAL PRESENCE

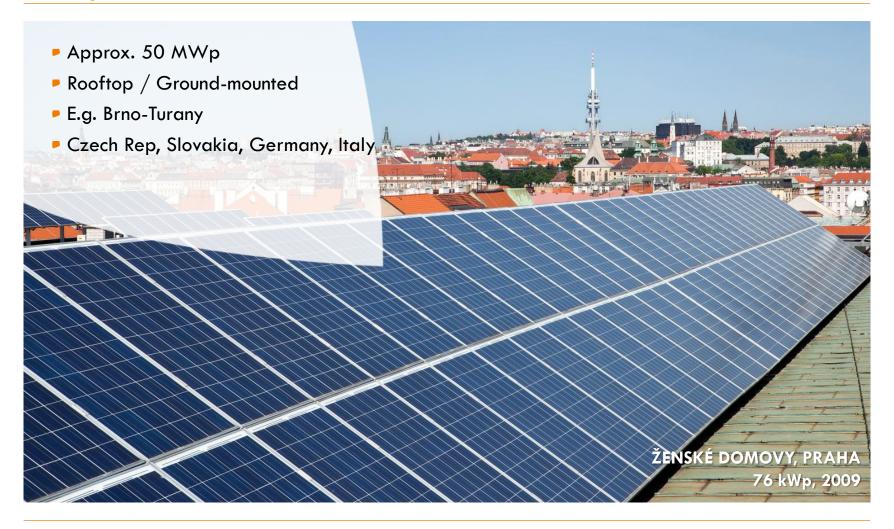
Active on two continents





PHOTON ENERGY IN EUROPE

Solar power solutions





PHOTON ENERGY IN EUROPE

Proprietary portfolio





PHOTON ENERGY IN EUROPE

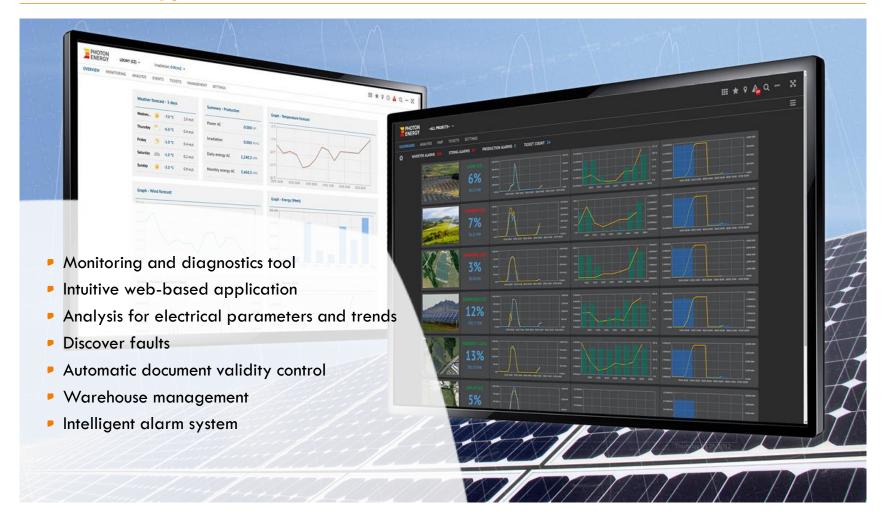
Operations and maintenance of PV power plants





PHOTON ENERGY

Photon Energy Command (PECOM)





GLOBAL PRESENCE

Photon Energy in Australia

- 2012: Photon Energy expands to Australia
- Australian HQ and team of 6 people in Sydney with full local design, engineering and operation capability



- Large commercial behind the meter solar power
- Large on and off-grid power storage projects
- Large-scale solar farm development, design & construction and operation
- Over 1 MWp of solar roofs completed and large pipeline



- Ground breaking and Award-winning Energy storage project for bai
- Long term repeat customers: bai, Buildcorp, Sarris Properties and Australia Post



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SOLAR IN AUSTRALIA

Australia within the global solar market

- ▶ The global PV market grew 28-34% in 2015
- Almost 50 GWp of new PV systems installed globally
- Global cumulative capacity in 2015 was 227 GWp

Evolution of global annual and cumulative installed capacity 2005–2015 (GWp)



FOCUS: AUSTRALIA

- Eight largest market in the world (2015)
- Highest penetration of residential rooftop solar in the world (2015)
- Almost 1 GWp installed in (2015)
- 5+ GWp total installed capacity (2015)





RENEWABLES IN AUSTRALIA

Renewable Energy Target

- Renewable Energy Target (RET) federal policy for Renewables in Australia
 - Large scale generation target of about 33,000 GWh in 2020
 - Double the amount of large-scale renewable energy compared to current levels
 - 23.5% of electricity generation in 2020
- Investment Incentive: Renewable Energy Certificates (STC or LGC) are created by renewable energy generators and must be purchased at market price and surrendered by Liable Entities (Energy Generators) out at 2030.
- LGC Market price driven by supply from Renewable Energy Generators and demand from Liable Entity demand which mirrors the RET.



- Not uncontroversial, Subject to attacks from coal and gas lobby and conservative media
- Current RET has bipartisan support in parliament



RENEWABLES IN AUSTRALIA

Other support mechanisms

States

- Some have implemented their own policies over and above the RET, providing PPA and LGC reverse auctions
- ACT: 100% renewable by 2020

Clean Energy Finance Corporation

- operates like a traditional financier
- co-finances and invests, directly and indirectly, in clean energy projects

ARENA

- Australian Renewable Energy Agency
- \$2.5 billion to fund RE projects and R&D

Emissions Reduction Fund

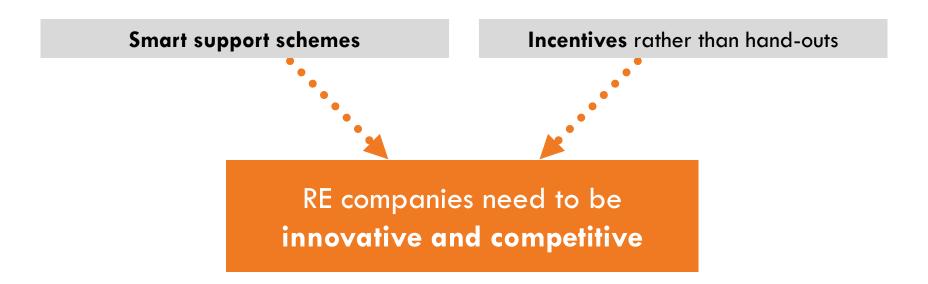
Euxironment Upgrade Agreements (EUA):
EUA enables to finance solar, power
storage and other equipment through an
increase in council rate payments.





RENEWABLES IN AUSTRALIA

Overall characteristics

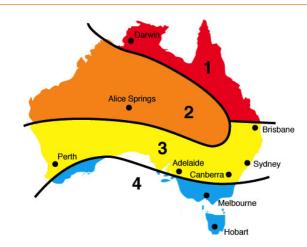




RENEWABLE ENERGY TARGET

Certificates

- Large-scale power stations and the owners of smallscale systems create certificates for every MWh they generate
- Existing market which provides financial incentives



LGCs

- Large-Scale Generation Certificates
- >100 kW
- Traded on market
- Current market value: 80-90 AUS\$

STCs

- Small-scale Technology Certificates
- <100 kW
- Market price capped at \$40
- Calculated for 14 years (reduces by one year each year to 2030)
- Paid up-front (investment incentive)



RENEWABLE ENERGY TARGET

Example of STC project: Leeton 99 kWp





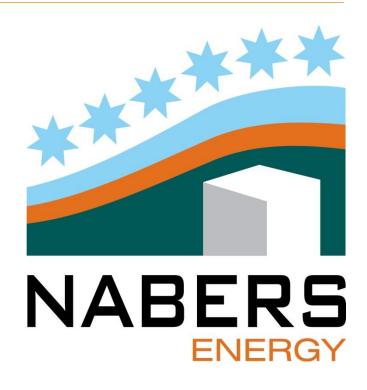
OTHER SUPPORT MECHANISMS

NABERS and Green Star

Rating systems for real estate energy efficiency

NABERS

- National Australian Built Environment Rating System
- Star rating 1-6
- Rates actual operational performance, using 12 months of measured performance information
- 6 star rating demonstrates market-leading performance for buildings that maximise energy efficiency with on-site renewable generation.
- Public institutions must aim for 6 stars
- Solar cheapest way of adding stars





OTHER SUPPORT MECHANISMS

Example of NABERS project: Australia Post Headquarters Sydney





OTHER SUPPORT MECHANISMS

Combination of NABERS / STCs: 1THD, Sydney





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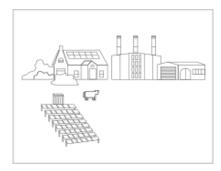




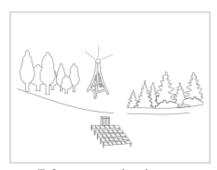
AUSTRALIAN SOLAR MARKET

Room for growth on the world's sunniest continent

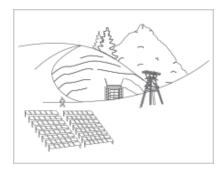
- Unlike Europe, no need to fight for territory with old energy
- Wider range of potential applications than Europe
- On-grid as well as off-grid



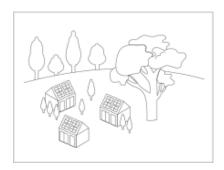
Agriculture & Industry



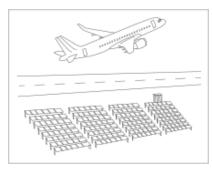
Telecommunications infrastructure



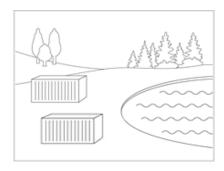
Mining: diesel replacement



Remote communities



Remote airports



Water remediation



AUSTRALIAN SOLAR MARKET

Example Off-Grid telecom



- Solar storage project for BAI Communications
- Muswellbrook transmission site in NSW, Australia
- Demonstrates reliability of solar
- Site provides broadcasting, radio, and critical emergency services for over 50,000 end users within a 500 km radius

"This successful trial has given BAI Communications the confidence to further pursue its quest to become a carbon neutral organization, and a leader in delivering energy efficient services within the broadcasting industry: just the right credentials to win the award for excellence in sustainability."

John Ive, BAI Communications









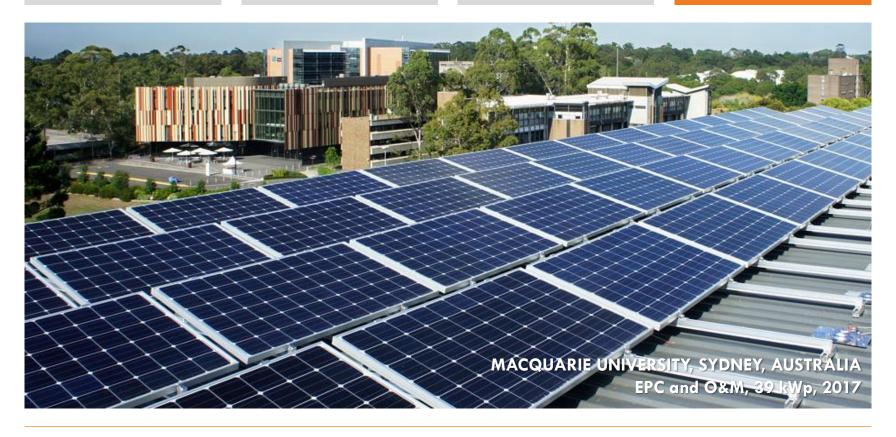
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OUR PROJECTS

Riverina 20 MWp solar park



Business model: Power Purchase Agreement
 / Merchant + Large-Scale Generation
 Certificates (LGCs)

Project status (1March 2017)

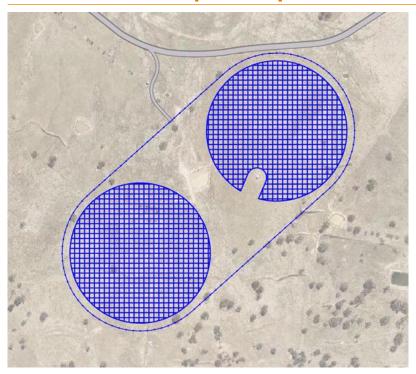
- Land secured
- Development Application in progress
- Securing of off-take agreements (PPA)
- Electrical connection enquiry completed and network study in progress.

Planned capacity:	20 MWp	Area size:	36 ha
Annual production:	32.70 GWh	Power Output:	1,635 kWh/kWp**
Households supplied:	5 621*	Total investment:	AUS\$ 28.4 Mio (CZK 538.0 Mio)
CO ₂ saved:	29 430 t annually	Expected IRR:	8.6%
Construction start:	Planned 08/2017	Final Commissioning:	Planned 05/2018



OUR PROJECTS

Environa 14 MWp solar park



Business model: Power Purchase Agreement
 / Merchant + Large-Scale Generation
 Certificates (LGCs)

Project status (1March 2017)

- Land secured
- Development Application in progress
- Securing of off-take agreements (PPA)
- Electrical connection enquiry completed and network study in progress.

Planned capacity:	14 MWp	Area size:	30 ha
Annual production:	22.61 GWh	Power Output:	1,615 kWh/kWp**
Households supplied:	3 886*	Total investment:	AUS\$ 19,9 Mio (CZK 376,9 Mio)
CO ₂ saved:	20 340 t annually	Expected IRR:	8.2%
Construction start:	Planned 06/2017	Final Commissioning:	Planned 03/2018



PHOTON ENERGY CZK BOND

Profit from the Australian solar boom!

6% p.a.

Monthly coupon

Daily liquidity*

* Bonds traded on the Prague
Stock Exchange and the RM system

Issuer	Photon Energy N.V.		
Planned issue volume	1.050 Mio. CZK		
Coupon / payment period	6% p.a. / monthly payment		
Subscription period / initial offering	Subscription period: 24.11.2016 – 11.12.2016 / initial offering (planned): 12.12.2016		
Placement / segment	Public Placement in the Czech Republic / Secondary market: Multilateral trading facility of the Prague Stock Exchange, RM system		
Covenants	 Pari passu – Equal seniority of existing and future unsecured claims Cross default Negative pledge Change-of-Control clause 		
Denomination	30,000 CZK / 100%		
Term / Redemption	7 years / 12. 12. 2023 at par		
WKN / ISIN	CZ000000815		
Use of proceeds	Proceeds of the issue will be invested with focus on Australia. Remaining proceeds may be used for repayment of outstanding bond (ISIN DE000A1HELE2).		



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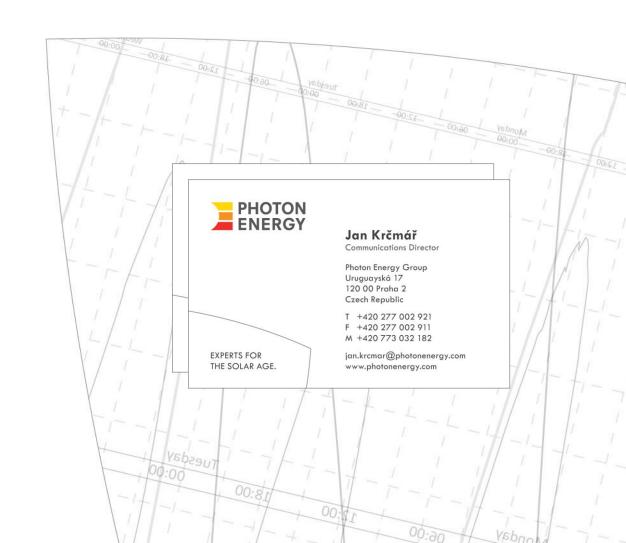
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PHOTON ENERGY

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