

Energy is here juwi Group Asia Pacific



Udayaditya Shome · Director EPC Sales · South East Asia · juwi Group



juwi has installed over 3,500 MW Wind and Solar plants
~1000 Employees on 6 continents, operative since 20 years



Investment volume >7.6 Billion USD

Organisation

- Founded in 1996 by Fred Jung (ju) and Matthias Willenbacher (wi), pioneers of renewable energies with agricultural roots
- juwi AG, not listed on the stock exchange
- 63% MVV Energie AG
37% Frema GmbH & Co. KG

Total capacity

Around 3,800 megawatt (~2,500 systems, cumulative wind and PV)

Annual energy output

Approx. 7.0 billion kilowatt-hours, corresponds to the annual power demand of around 2 million households

Investment volume (since 1996)

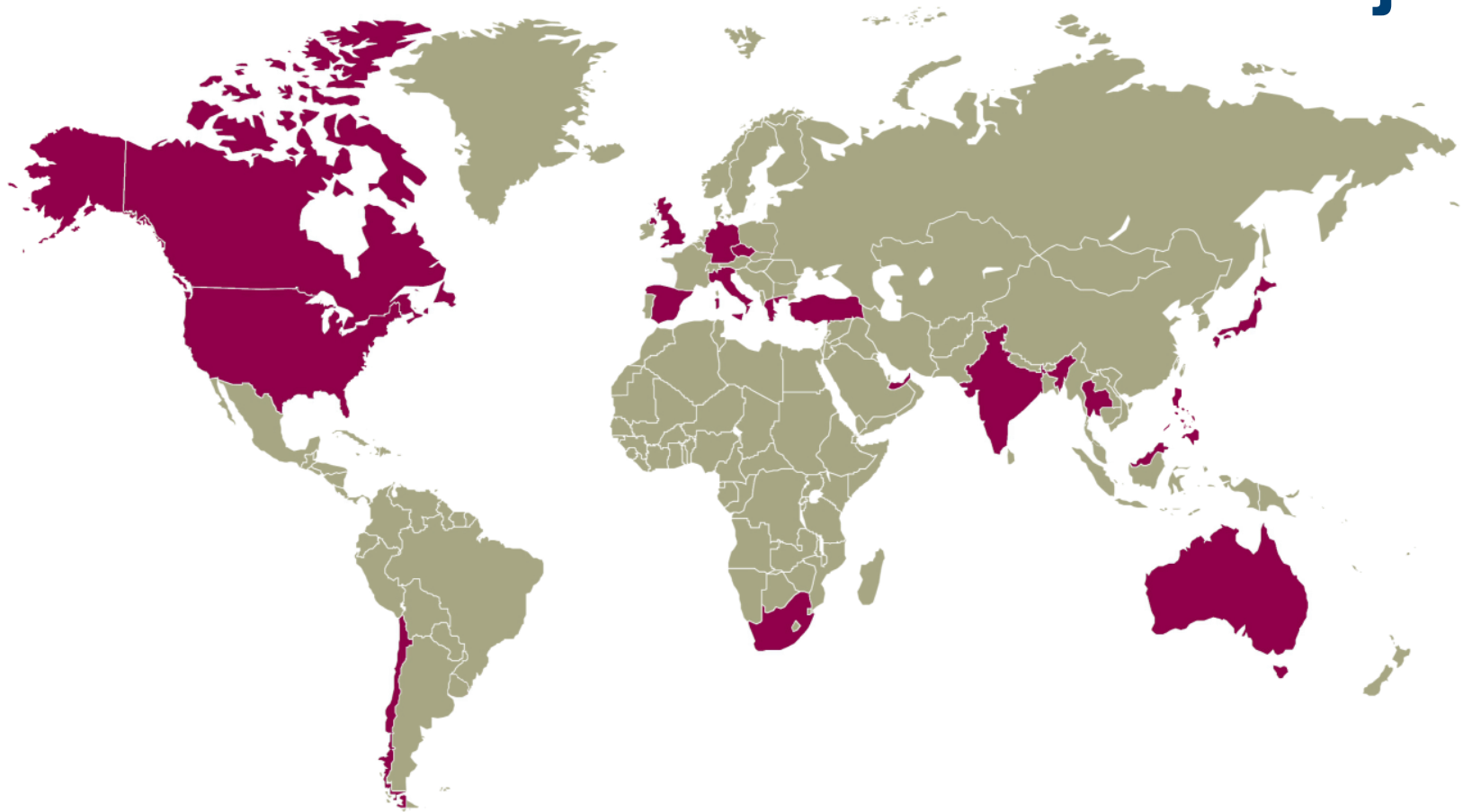
> 7.6 billion Euro

Employees & revenue

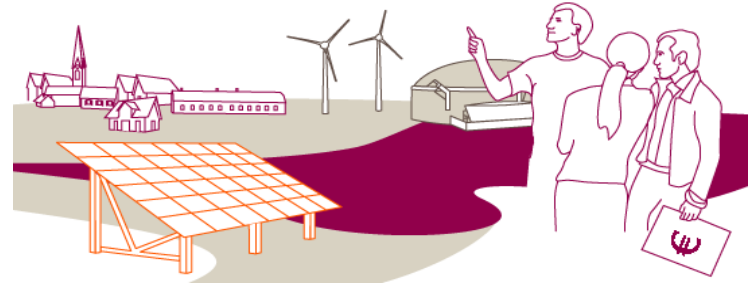
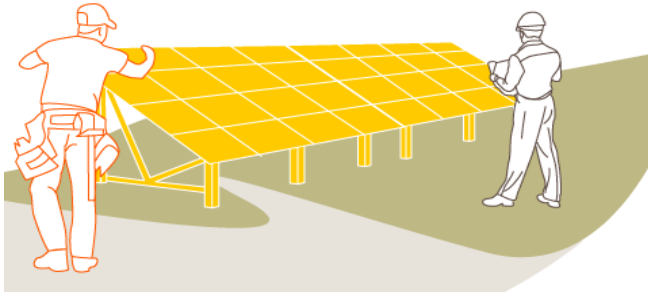
- Approx. 1,000 employees (worldwide)
- ~575 million Euro in 2015



Worldwide Offices



Our Services: All about the Project



Global Highlights & Asia Pacific Operations



Our Business Activities

Its All about the Projects



Site Selection & Acquisition



Development & Approval



Planning & Purchasing



Construction & Grid Connection



Financing & Sales



Operations & Service



Solar Power: among the global EPC leaders



Location: Arizona (USA) 25 MWp, single axis tracker, Ronneburg (Germany) 20 MWp, Malaysia 10MWp Carport, Oiniades (Greece) 3MW

Solar Energy – Selected References # 1



Waldpolenz in Germany (53 MW)



Rajasthan India (26 MW)



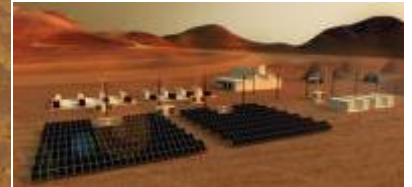
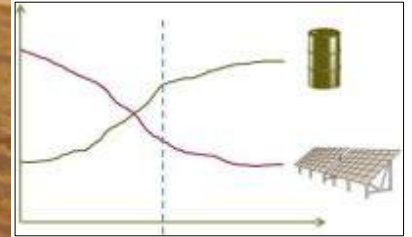
Arizona in USA, single axis tracker (25 MW)



Prieska in South Africa (86 MW)

Solar Energy – Selected References # 2

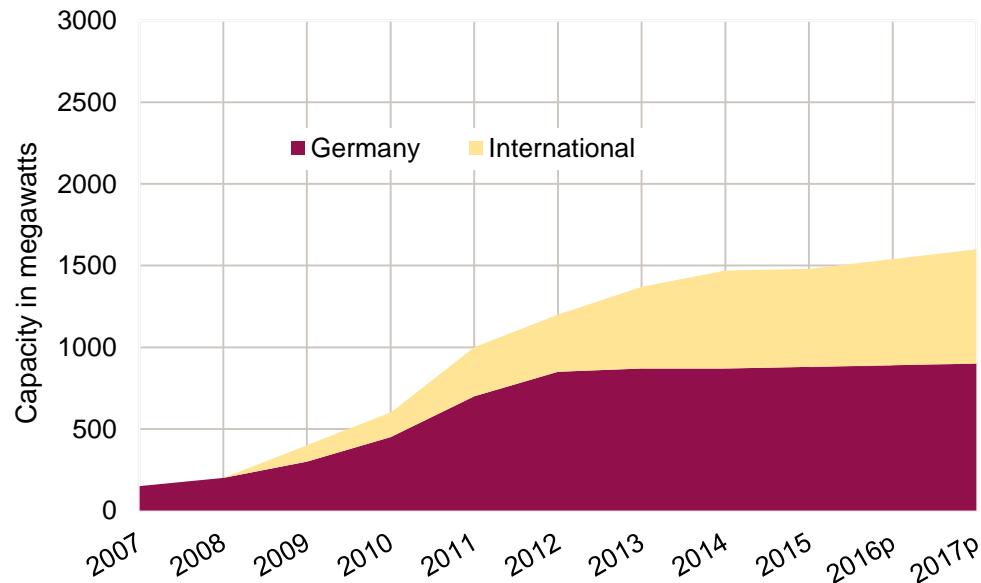
Large free-field project South Africa; PV-diesel hybrid Australia



Picture: Completed South African On-grid plant, PV Diesel hybrid Australia 10.6 MWp

Facts and Figures of solar power plant development

- Installed capacity: approx. 1,600 megawatts
- Number of PV installations: > 1,500
- Total investment: approx. 4.3 billion Euro
- Annual energy production: approx. 1.6 billion kWh
- Annual CO₂-savings: approx. 1.1 million t



Asia Pacific Operations & Highlights



Asia Pacific > 500 MWp completed or in construction



India 186 MWp, Japan 113 MW, Thailand 83 MWp
Philippines 90 MWp, Australia 10.6 MWp, Malaysia 10 MWp

India: 186 MWp completed or in construction



Locations: Various plants between 51MWp to 1 MWp

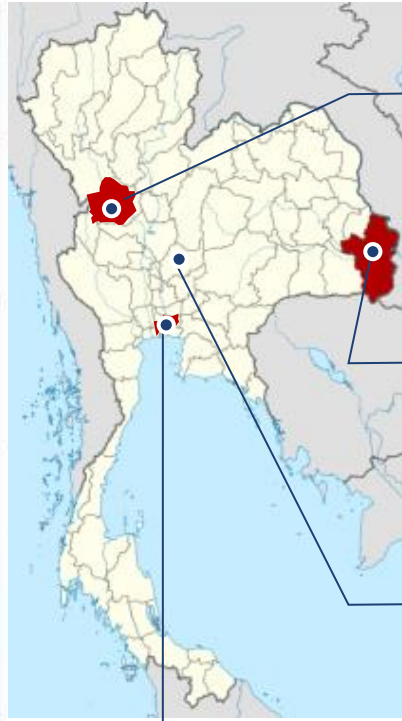
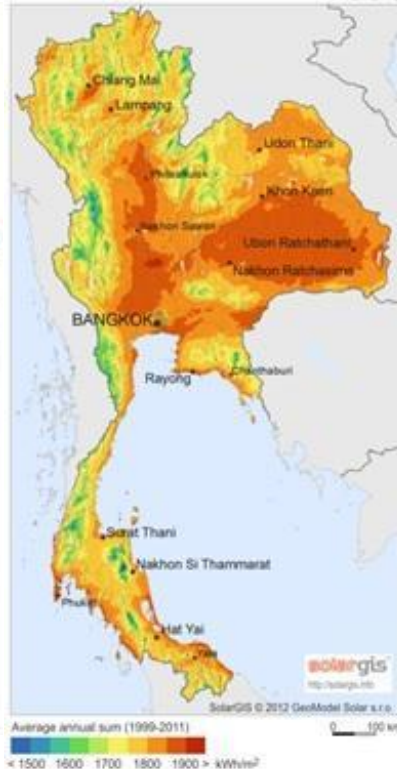
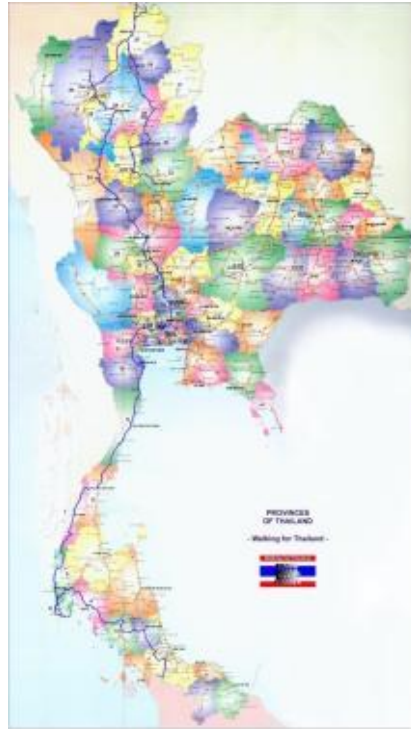
Japan: More than 35 projects completed to date



113 MW completed or under construction

Free-field Solar projects with single sizes between 1-30 MWp & Rooftops

juwi Thailand: project locations (83.6 MW_{peak})



Kamphaeng Phet Projects:

- 1 – 10.2 MW_{peak}
- 2 – 10.2 MW_{peak}
- 3 – 10.2 MW_{peak}
- 4 – 10.2 MW_{peak}

Ubon Ratchathani Projects:

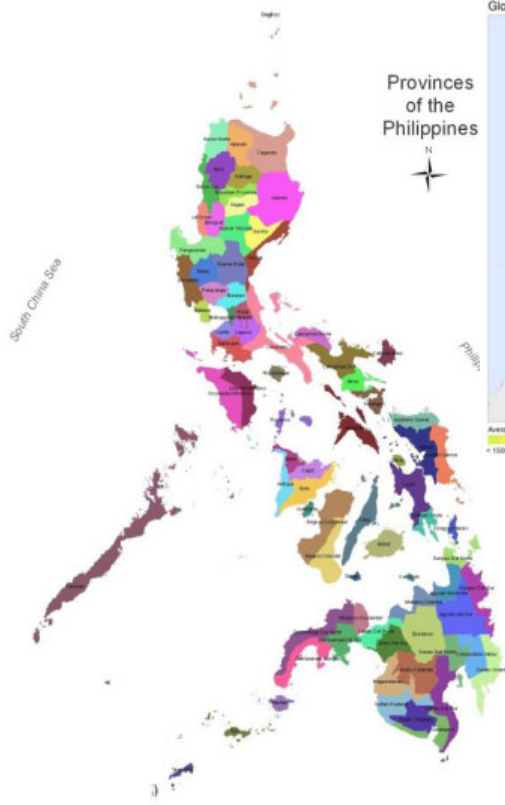
- U1 – 7.6 MW_{peak}
- U2 – 7.6 MW_{peak}
- U3 – 5.1 MW_{peak}

Saraburi Projects:

- S1 – 8.0 MW_{peak}
- S2 – 8.0 MW_{peak}
- S3 – 6.5 MW_{peak}

juwi Thailand Office (BKK)

juwi Philippines: project locations (89.76 MW_{peak})



Burgos Solar I + II Projects:

- I = 4.16 MW_{peak}
- II – 2.66 MW_{peak}

Juwi Philippine Office, Manila

Toledo Solar Project:

- 59.95 MW_{peak}

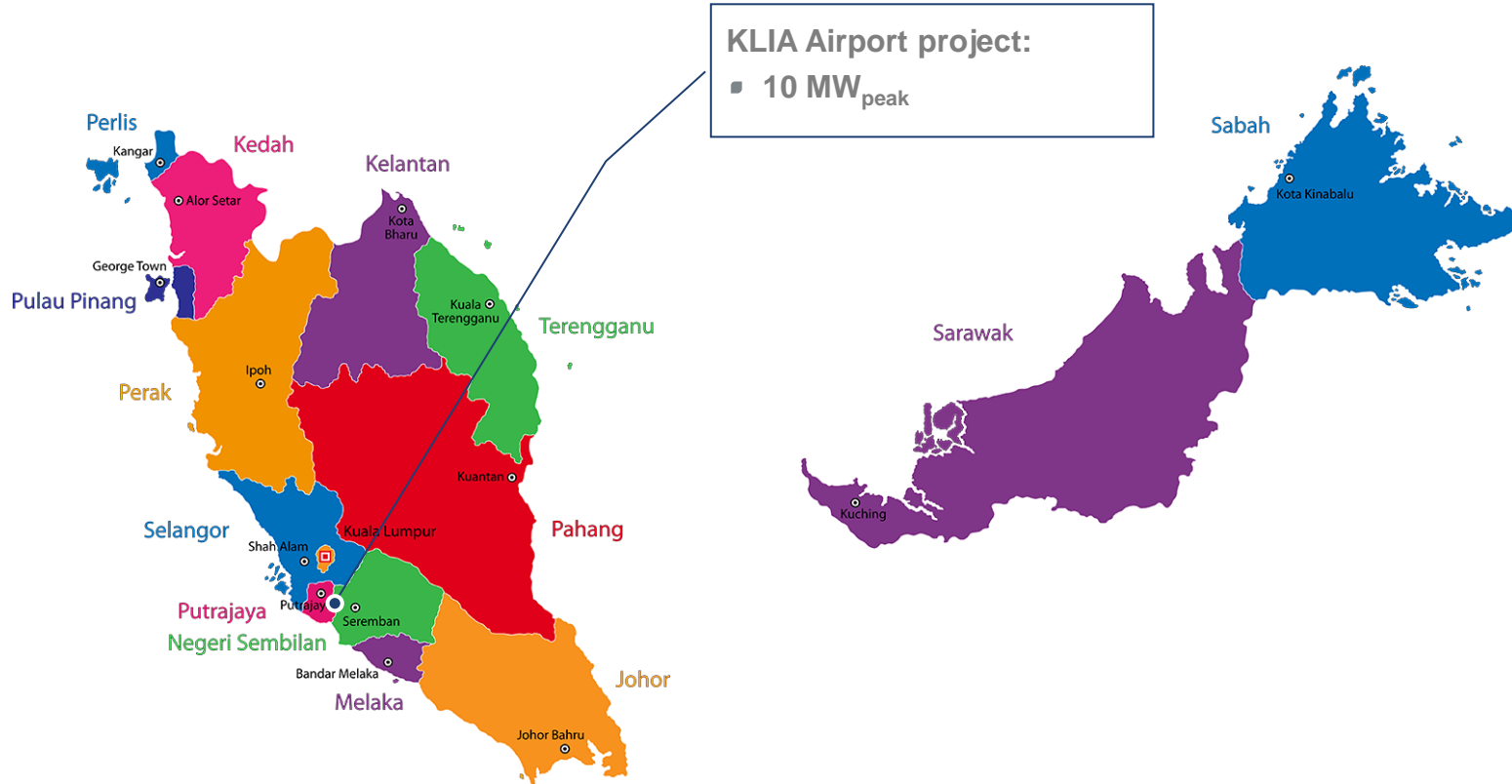
GoldSun Project:

- 12.59 MW_{peak}

Zorro Project:

- 10.4 MW_{peak}

juwi Malaysia: project locations (10 MW_{peak})





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World's largest solar-diesel power plant in Australia

A 10.6 MW solar plus 6 MW battery facility will supply the off-grid DeGrussa Copper-Gold Mine

juwi is here to make your project a success



Organisation

- active in Asia since 2009
- Regional Headquarter in Singapore
- More than 150 employees in Asia Pacific
- Offices in Singapore, India, Japan, Australia, Thailand, Philippines

Portfolio

- India: 186 MWp completed or in construction
- Japan: ~113 MWp completed or in construction
- Thailand: 83.5 MWp completed or in construction
- Philippines: 90 MWp completed or in construction
- Malaysia 10 MWp completed
- Australia: 10.6 MWp PV Diesel hybrid under construction
- >500 MWp completed/ under construction to date
- ~1 GWp to be completed between 2017 to 2019



Thanks for Your Attention!

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