Content

August 2016

1. Investing in Renewable Energies / Photovoltaic

2. Lenders Technical Advisory / Owners Engineer Services

3. Syntegra Solar at a glance: who we are, and what we do

4. References
Renewable Energy caters to multiple policy objectives

Affordable and reliable and clean power supply scores high on the political agenda

Investments in Renewable Energies are a key enabler of sustainable development

Energy supply security

Energy

Environment

Economy & Social

1) Local industry development
2) Benefits to local economy

Reduction of CO₂ emissions
Mitigation of greenhouse effect
Investments in Solar PV offer attractive return-risk ratios

Especially Solar PV Power Plant attract Investors as well as Lenders due to favorable returns and risk profiles

Investments in PV with attractive risk-return profiles and long-term steady cash flows
Cost Competitiveness!
The Driving Force of large PV Power Plant Investments

PV Power Plants and Power Systems are fully cost-competitive in most cases in Thailand – rapid installation time-lines an additional benefit

Economies of Scale and Technology Innovation, fueled by intense competition in the PV Industry, are the driving forces of cost competitiveness of PV

Development of turn-key prices for PV Power Plants / PV Systems, as a function of time and project size
Lender’s Technical Advisor / Owner’s Engineer Services to assure that attractive risk-return ratios materialize

For PV Power Plant Projects, many different parties are involved and are to be coordinated and supervised

In-depth Expertise, ample experience, and a proven track record of all parties are key to success
Content

August 2016

1. Investing in Renewable Energies/ Photovoltaic

2. Lenders Technical Advisory / Owners Engineer Services

3. Syntegra Solar at a Glance: who we are, and what we do

4. References
Owners Engineer and Lenders Technical Advisor Services ensure on-budget, on-time and top-quality project completion

One-Stop-Shop service provision: one partner, one interface, one to take responsibility for supervision of on-time / on-budget project completion

Phases of a PV Power Plant Project - from initial concept development to operations

- Concept Development
- PV System Engineering
- PV Power Plant Project Development
- PV Power Plant Project Execution
- Plant Monitoring & Servicing

For Owners/Investor: Owner’s Engineer Services

- Technical Feasibility
- Commercial Viability
- Construction Monitoring
- Operations Monitoring

For Banks and Lenders: Lender’s Technical Advisor
## Key phases for the Lenders Technical Advisor

**Customized Scope of Work for Banks and Financial Institutions**

### Technical Feasibility
- On-site check / suitability
- Assess proposed technologies and fit for purpose of main components (certifications!)
- Scrutinize System Design
- Irradiation Calculation Report
- Energy Harvest Simulations
- Review project mgmt. set-up, incl. line of command as well as reporting structures
- Evaluate appropriateness of project timeline & milestones
- Environmental considerations

### Commercial Viability
- Vendor DD / techn. capabilities and references of EPC and subs
- Review project mgmt. set-up, incl. line of command as well as reporting structures
- Evaluate appropriateness of project timeline & milestones
- Scrutinize EPC/O&M contracts and various sub-contracts: - safeguarding Owners/Investor and subsequently Lenders - ensure adequate risks mgmt. (technical, commercial, other) - in case of delays and budget overruns recommend course of action/remedies

### Construction & FAT Monitoring
- Supervision of installation progress @ milestones at monthly site visits
- Review & commenting on weekly and monthly EPC and OE reports, namely in case of deviations
- Review EPC and OE milestone reports and (Final) Test Reports/Results
- Witness the FAT Final Acceptance Testing
- Review project budget updates and recommend release of funds

### Operations Monitoring
- Review monthly site / performance reports
- Final Check on punch list closure
- Confirm performance and comment/recommend on plant perf. optimization
- Check & comments on O&M services
1. Investing in Renewable Energies/ Photovoltaic

2. Lenders Technical Advisory / Owners Engineer Services

3. Syntegra Solar at a glance: who we are and what we do

4. References
Syntegra Solar at a Glance

For details and references please visit our website www.syntegra-solar.com

Syntegra Solar is a specialized Consulting & Advisory and Project Development firm recognized for its focus and expertise in Renewable Energies, namely in Photovoltaic Technologies.

Syntegra partners are entrepreneurs, investors/owners of PV assets, often previous industry executives, with a proven track record of a long-standing, direct experience in the Renewable Energy Industry Sector.

Syntegra has build an extensive network in the RE/PV industry and is enjoying an excellent reputation with firms in the PV industry, strategic investors, financial institutions, as well as government agencies.
Syntegra Solar Partners are Previous Industry Executives
Entrepreneurs and Investors with a Long-Standing Experience in Clean Tech Industry

The Syntegra Managing Partner Team: Seasoned PV Experts and Entrepreneurs, with decades of proven track record

Mathias G. Kothe
German, English
Photovoltaic Technologies
Renewable Energies
25+ years of experience as entrepreneur, consultant and executive in the PV industry
- MSc Engineering, MBA MIT Sloan School
- Founder/CEO of several JV’s and Star-Ups
- Senior VP, Deutsche Flugsicherung GmbH
- VP, Siemens Solar GmbH, München & Camarillo
- Department Head, BMW AG, Munich

Prof. Dr. Dieter Reineke
German, English, French
Intl. Business Administration
Renewable Energies / PV
25+ years experience as manager, consultant, trainer and entrepreneur
- MA Econ, Dr. in International Management
- Sr. Consultant at GIZ and Gemini Consulting
- Academic positions in Europe, Asia and USA
- MD in consulting and start up companies
- Various supervisory board mandates

Heinz Jungermann
German, English
PV Component Production
Strategic Partnerships
15+ years of experience as Managing Director, consultant and executive in the PV industry
- Dipl.-Ing. Mechanical Engineering
- Consultant in Logistics and Automation
- Managing Director, Automation in plastic processing
- Consultant and advisor in PV

Tobias Preuss
German, English, Spanish
PV Power Plants and Systems
PV Hybrid Power Applications
Certified expert in PV system design and engineering, due diligence, damage appraisal
- Dipl.-Ing. Power Engineering, Cert. PV Systems Expert (TÜV Rheinland)
- Commercial/Industrial PV Roof-Top Systems
- Supervision and Quality Management of 50+MWp ground mounted solar parks

Dr. Michael Böttger
German, English
Biomass/Bio-Fuels, Photovoltaics
20+ years experience in Top Management Consulting, CleanTech/Renewable Energies
- BA, PhD in strategic marketing
- VP Marketing, Precision MicroDevices Inc.
- VP Marketing, Economic Portf. Concepts
- Sr. Manager Automotive, Arthur D. Little
- 20+ years Consulting & Advisory Expertise

Prof. Dr. Dieter Reineke
German, English, French
Section D, Business Administration
Renewable Energies / PV
25+ years experience as controller and executive in the PV industry
- MSc Economics, PhD Engineering, EMBA Bocconi
- Co-founder, RER Solutions
- Venture Capital, Good Energies
- Team Leader, IMEC
- Freelance, AMS Ingenieurbüro

Dr. Guido Agostinelli
Italian, English, French
Photovoltaics, Smart Grids
Pwr. Storage, e-mobility
18 years of experience as manager in the clean technology in R&D, industry, finance
- MSc Physics, PhD Engineering, EMBA Bocconi
- Co-founder, RERA Solutions
- Venture Capital, Good Energies
- Team Leader, IMEC
- Freelance, AMS Ingenieurbüro

Dr. Tobi Seibicke
German, English, Spanish
PV Power Plants and Systems
PV Hybrid Systems, Wind Parks
16 years experience in PV Power Plants/Systems
- PhD, Dr. rer. Nat. at Univeristy of Freiburg.
- Construction Manager for large scale PV Plants
- Project Manager Large scale PV in India, Spain, Italy, Thailand, Philippines
- Principle Owners Engineer / Project Lead and Lenders Technical Advisor for large PV Projects

Prof. Dr. Thomas Hunger
German, English, Russian
Large Scale RE/PV Utilization
Grid-Integration, Smart Grid
Top Expertise in High-Voltage Grid Networks, Grid-Integration of large RE/PV Power Plants
- MSc Electrical/Industrial Engineering, TU Darmstadt
- PhD Electrical Engineering, TU Darmstadt/TU Hagen
- Consultant Lahmeyer Intl., RE projects Asia & MENA
- Sr. Consultant ABB, RE/PV Infrastructure Projects
- Prof. FH Ansbach, RE Pwr. transmission & distribution
- Prof. Uni Mannheim, Lrg. Scale RE/PV Power Plants

Dr. Heinz Jungermann
German, English
PV Component Production
Strategic Partnerships
15+ years of experience as Managing Director, consultant and executive in the PV industry
- Dipl.-Ing. Mechanical Engineering
- Consultant in Logistics and Automation
- Managing Director, Automation in plastic processing
- Consultant and advisor in PV

Prof. Dr. Mathias G. Kothe
German, English
Photovoltaic Technologies
Renewable Energies
25+ years of experience as entrepreneur, consultant and executive in the PV industry
- MSc Engineering, MBA MIT Sloan School
- Founder/CEO of several JV’s and Star-Ups
- Senior VP, Deutsche Flugsicherung GmbH
- VP, Siemens Solar GmbH, München & Camarillo
- Department Head, BMW AG, Munich
Syntegra Solar Company Structure

Syntegra Solar is a pure play PV Technology and Industry Consulting and Advisory firm, founded more than 15 years ago

- Syntegra Solar was founded in May 2001 in Munich/Germany, and incorporated as a Swiss AG on August 8th 2008, in Baar/Switzerland
- Syntegra Solar consist of 2 main companies and several daughter companies
  - Syntegra Solar International AG
  - Syntegra Solar Projects AG
    - Syntegra Solar Intl. LLC, UAE (2009)
    - Syntegra Solar Thailand (2016)
    - Syntegra Solar Indonesia (2016)
- Solid Financial Records since 2008
- Most Syntegra Managing Partners serve the company since its incorporation

Syntegra Solar is acknowledged for its expertise in the PV / RE Industry:
“Committed to Innovation and Growth in Photovoltaics and Renewable Energies”
Consulting & Advisory Services along the Entire PV Value-Chain

Syntegra Solar is specialized on PV Technologies – our services cover the entire PV Value Chain from Raw Materials to PV Power Plants

DUE DILIGENCE SERVICES

- Investment Opportunity Assessments
- Technology Feasibility Due Diligences
- Economic Viability Due Diligences
- Commissioning/Final Acceptance Tests
- PV Systems Damage Appraisals
- Arbitrage & Dispute Settlements

CONSULTING AND ADVISORY SERVICES

- Strategy Development & Execution
- New Business Development
- Technology Innovation & Start-Up Advisory
- Lender’s Technical Advisory
- Owner’s Engineer Services
- PV Power Plant Development
- Policy Advisory
- Scenario Development
- Market Studies / Market Forecasts
Syntegra Solar actively develops and invests in PV power projects: “we walk the talk” as key differentiator!

Syntegra Solar is founder and investor in operational firms active in the development and installation of PV power plants / systems

PV Project Development and Realization

PV Expert Due Diligences and Consulting

Syntegra Solar, as a specialized PV Consulting and Advisory firm, has advised and is actively engaged in a large number of PV Investments, both PV Manufacturing Plant and PV Power Plant Projects.

In this role, Syntegra Solar enjoys an excellent track record with (strategic) investors, corporations and financial institutions.

Deep expertise along the entire PV value chain translates to superior services for PV Power Plants
Syntegra offers Top-Expertise in PV Manufacturing and PV Power Plant Projects

Syntegra Solar offers PV Expert Services in selected countries in EU / Eurasia, South-East Asia, MENA, and Sub-Sahara Africa

<table>
<thead>
<tr>
<th>Services &amp; Products</th>
<th>Europe / Eurasia</th>
<th>South East Asia</th>
<th>MENA</th>
<th>Sub-Sahara Africa</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Owners Engineer</td>
<td>Comprehensive service provision since 2003</td>
<td>Leading OE- and LTA-Service Provider in the region since 2009</td>
<td>Since 2008</td>
<td>Yes focus Southern Africa</td>
<td>e.g. Chile</td>
</tr>
<tr>
<td>Lenders Technical Advisor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Management</td>
<td>Comprehensive service provision since 2003</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes focus Southern Africa</td>
<td>No</td>
</tr>
<tr>
<td>EPC Construction Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPC Subcontracting</td>
<td>On case by case basis</td>
<td>On case by case basis for smaller PV Systems</td>
<td>in JV cooperation with Dome Advanced Eng.</td>
<td>On case by case basis</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical Due Diligences</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Focus: PV Power Plants/Systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical Feasibility and</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Commerc. Viability Studies</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PV Project Development</td>
<td>On case by case basis</td>
<td>Philippines Indonesia, Vietnam</td>
<td>No</td>
<td>No</td>
<td>e.g. Chile</td>
</tr>
<tr>
<td>Other PV Experts Services</td>
<td>On request</td>
<td>On request</td>
<td>On request</td>
<td>On request</td>
<td>On request</td>
</tr>
</tbody>
</table>
1. Investing in Renewable Energies/ Photovoltaic
2. Syntegra Solar at a glance
3. Lender’s Technical Advisory / Owner’s Engineer Services

4. Overview References
   for more details see Syntegra References presentation
On-time and on-budget PV Power Plant Completion:
Most recent PV Power Plant project references in South-East Asia

Key References, South-East Asia, 2015 -2016:

1. **RASLAG I, II**
   - **10+13 MWp**
   - I: completed/commissioned March 2015, the first large ground-mounted Phil. PV Power Plants,
   - II: completed and commissioned on 18.12.2015 – 5 weeks ahead of schedule

2. **bronzeoak**
   - **San Carlos 1A&B**
     - 22 MWp
     - completed October 2014 – Syntegra Solar came in after failed DOE testing to replace OE
   - **San Carlos 1C&D**
     - 23 MWp
     - completed and commissioned June 2015 – initial performance 7% over expected energy yield!
   - **La Carlotta**
     - 33 MWp
     - completed and commissioned March 7, 2016
   - **Manapla**
     - 48 MWp
     - completed and commissioned March 5, 2016
   - **Bais**
     - 18 MWp
     - completed and commissioned February 27, 2016

3. **PGEC**
   - **Tarlac City I**
     - 50 MWp
     - commissioned on 28.01. 2016, exactly on-time and on-budget – total installation time 123 days!

4. **MW**
   - **Silay**
     - 25 MWp
     - completed and commissioned on February 23, 2016
   - **Bataan**
     - 18 MWp
     - completed and commissioned on March 14, 2016
   - **Toledo**
     - 60 MWp
     - ongoing – Syntegra tasked after this project missed FIT deadlines, to be commissioned 09/2016

5. **ETS, Naic**
   - 50 MWp
   - ongoing – Syntegra tasked after this project failed to obtain permits, to be commissioned 12/2016

We are engaged / have commissioned larger PV Power Plants totaling >370 MWp
in the Philippines alone
Syntegra Enjoys an Excellent Track Record within the PV Industry, Government Agencies, and Investors in Renewable Energies

Founded in 2001 as an Expert Consulting & Advisory firm servicing the Renewable Energy Industry Sector
Syntegra Enjoys an Excellent Track Record within the PV Industry, Government Agencies, and Investors in Renewable Energies

Founded in 2001 as an Expert Consulting & Advisory firm servicing the Renewable Energy Industry Sector
Contact

Syntegra Solar Intl. AG

Neuhofstrasse 5A
CH-6340 Baar
SWITZERLAND
Tel.: +41 41 769 7937
Cell: +41 (79) 699 7622
Fax: +41 41 769 7947

www.syntegra-solar.com