Solar Bankability
Final Public Workshop

February 7-8th, 2017
Renaissance Brussels Hotel | Rue du Parnasse 19 | 1050 Brussels, Belgium

Improving the Attractiveness of solar PV Investment
Establish a common practice for professional risk assessment

Introduction

Europe has already passed to the post "100 GW of Solar Power Installed in Europe" era. In the last decade grid-connected photovoltaic power has advanced from an absolute niche position to a central building block of future electricity generation and energy transition.

Costs of PV systems have fallen more than 70% since 2008 and levelised cost of electricity will continue decline supported by economies of scale and ongoing innovation. Along with the increasing importance in Europe's future energy mix the technical reliability and financial stability of PV investments should match established standards in the utility industry.

The Solar Bankability project therefore aims to establish a common practice for professional risk assessment which will serve to reduce technical risks associated with investments in photovoltaic projects and increase trust from investors, financers and insurance companies.

After a very successful mid-term event in May 2016 and additional consultation activities, we are now ready to present and discuss our findings, exchange with relevant leading stakeholders and assess the impact of our work.

Solar Bankability is a project funded by the European Commission's Horizon 2020 programme. It started on March 2015 and will finish on February 2017. Over the last two years the consortium worked on several high-quality deliverables on technical risk assessment, risk mitigation measures, cost assessment and business model assessment. Many leading financial institutes, developers and component providers supported with advisory roles the developments of work.

*The Solar Bankability project has received funding from the **European Union's Horizon 2020 research and innovation programme** under the grant agreement No 649997.*

Agenda

Day 1: 15:00-18:00

15:00	**Registration & Welcome coffee**	
15:30	**Welcome notes from the host / project coordinator**	James Watson**, SolarPower / Europe**, David Moser, **EURAC**
15:40	**Session 1**	Moderated by James Watson, **SolarPower Europe**
15:40	**Presentation on Solar Bankability project**	David Moser**, project coordinator, EURAC**
16:00	**Expert debate** ***What is risky with solar PV investments – Experiences from leading players and Solar Bankability Advisory Board experts*** ***Incl. Q&A with the attendees***	Neil Perry, **SolarCentury** Jean-Philippe Olivier, **123 Venture** Villmann Patrick, **KGAL Investment Management (tbc)**
17:45	**Summary and presentation of tomorrow's agenda**	James Watson, **SolarPower Europe**
18:00	**End of Session 1**	
19:00 – 21.00	**Networking Event**	

The participants of the event are welcome to join the networking event.

Day 2: 08:30-17:00

08:30	**Registration & Good morning coffee**	
09:00	**Opening Remarks**	Bjoern Zapfel, **EASME/European Commission**
09:15	**Session 2 – Risk Assessment in Project lifetime** *Solar Bankability Experts presenting main results from the project*	Moderated by Achim Woyte, **3E**
09:15	Creating a cost-based Failure Modes and Effects Analysis (FMEA) for PV	David Moser, **EURAC**
09:30	Mitigating the technical risks in project lifetime	Ulrike Jahn**, TÜV Rheinland**
09:45	Gap Analysis of Technical Assumptions in PV Electricity Cost and Introduction of Best Practices	Mauricio Richter, **3E**
10:00	Business Model and profitability assessment - impact of failures on Internal Rate of Return (IRR)	Matthias v. Armansperg, **ACCELIOS Solar**
10:15	Address your questions to the Solar Bankability experts	
10:45	**Networking Coffee/Tea Break**	**Forum**

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11:15	**Session 3 – Ensuring Bankability from the Development to End of Life – Best Practices from the industry**	Moderated by Vassilis Papaeconomou**, Alectris**
11:15	Best Practices Guidelines for EPC and O&M	Caroline Tjengdrawira**, 3E**
11:30	Optimization of PV assets: how to sustainably increase returns	Ingo Rehmann, **Greentech**
11:45	Expert debate *Technical considerations for a positive cash flow* *Incl. Q&A with the attendees*	Carlos Javier, **NextEnergy Capital** Arnoud Klaren, **Foresight Group** Mark Turner**, Lightsource RE (tbc)**
13:00	Lunch Break	

14:00	**Session 4 – Financial Due Diligence and Optimized Sustainable Performance**	**James Watson, SolarPower Europe**
14:00	Expert debates with experts on: - Additional non-technical and asset management considerations - Warranties and Insurances - Re-financing (re-powering) - Secondary market - Challenges in roof-top segment	Geoff Hoffheinz**, Glennmont Partners** Volker Hense, **AXA** Joseph Dutton, **University of Exeter** Francesco Girardi, **Bluefield**
14:30	*Incl. Q&A with the attendees*	

15:00	**Networking Coffee/Tea Break**	**Forum**

15:30	**Session 5 – Ensuring a Quality Infrastructure – What can we learn from other EU and Global initiatives**	David Moser, **EURAC**
15:30	QI: Develop, Control and Cost&Benefit	Francisco Boshell, **IRENA**
15:50	Financing Implementation Guidelines	Sonia Dunlop, **SolarPower Europe**
16:10	Solar Standardisation Initiative	Nicole Iseppi, **TWI / Engie**
16:30	Wrap up remarks – Exploit available knowledge and experience	James Watson, **SolarPower Europe**
16:45	**End of Workshop**	

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