Solar Bankability Europe Workshop

Managing Financial Risks in PV Assets during Project Development and Operation

Cologne, 9 – 10 May 2016

Project Development Risks

- Greenfield inspection to identify services, use of area, shading, flooding, contamination
- Grid Feasibility Analysis
- Planning Feasibility and early contacts with planning authorities
- Detailed technical specifications and testing/commissioning protocol
- Best practices installation guide as part of the EPC Contract
- Procurement: factory audits, quality inspection, testing, certification
- Construction Monitoring and key construction phases supervision/witness
- Thorough Commissioning and Testing Process
- Identify Acceptance Criteria
- Exhaustive and Complete Documentation Package
- Follow recommendations of local and international standards
- Health & Safety

Financial Risks

- Risks relating to counterparty risk: Developer, EPC Contractor, O&M Contractor, Property owners or tenants, Off-takers, Banks, Financial Institutions, Insurance Companies
- **Payments: Advance, Milestones, Services Fees**
- **EPC Contractors obligations: price, delays, insolvency, warranty**
- > Incentives risks: loosing incentives, reduction
- Financial Return: liquidated damages (for delay, underperformances actual and futures), warranties, rejection rights, termination rights, insurance
- **Components: warranties, insurers backed warranties, parent company backed warranties**
- **Plants Performances: performance ratio, availability**
- Other risks: thefts, vandalism, terrorism
- Change of laws

Risks during Operation

- > **O&M**: services, performances
- O&M Contractor performances: MTTD, MTTR, MTBF, losses reduction, availability, generation
- Monitoring PV plants operations
- Monitored Data Analysis
- Maintenance Plan
- Effective Asset Management

Contact

Francesco Girardi

Senior Director of Engineering and Project Operations Bluefield Partners LLP fgirardi@bluefieldllp.com

dd: +44 (0)20 7078 0035 m: +44 (0) 7889 536701

53 Chandos Place, London, WC2N 4HS

Bluefield

Disclaimer

This document is being issued by Bluefield Partners LLP (Bluefield), which is authorised and regulated by the Financial Conduct Authority.

The information and opinions contained in this document are for background purposes only and do not purport to be full or complete. No reliance may be placed for any purpose on the information or opinions contained in this document or their accuracy or completeness. No representation, warranty or undertaking, express or implied, is given as to the accuracy or completeness of the information or opinions contained in this document by Bluefield and no liability is accepted by Bluefield for the accuracy or completeness of any such information or opinions. The opinions expressed in this document do not constitute investment advice and independent advice should be sought where appropriate.

Recipients of this document who intend to apply for or purchase shares in any fund for which Bluefield acts as investment advisor (the Funds) are reminded that any such application or purchase may be made solely on the basis of the information and opinions contained in the relevant Fund's' prospectus, which may be different from the information and opinions contained in this document.

This material is being circulated on a confidential basis. The information contained herein is confidential to such person and is neither to be disclosed to any other person, nor copied or reproduced, in any form, in whole or in part without the prior consent of Bluefield. The information provided in this presentation is not intended for distribution to, or use by, any person or entity in any jurisdiction or country where such distribution or use would be contrary to law or regulation or which would subject Bluefield or its affiliates to any registration requirement within such jurisdiction or country. Neither the information, nor any opinion contained in this document constitutes a solicitation or offer by Bluefield or its affiliates to buy or sell any securities, futures, options or other financial instruments or provide any investment advice or service. Failure to comply with these restrictions may constitute a violation of applicable securities laws.

This presentation or any copy of it may not be: (i) taken or transmitted into the United States of America; (ii) distributed, directly or indirectly, in the United States of America or to any US person (within the meaning of regulations made under the United States Securities Act 1933, as amended); or (iii) taken or transmitted into or distributed in Canada, Australia, Japan, the Republic of Ireland or the Republic of South Africa or to any resident thereof. The distribution of this announcement may be restricted by law in certain jurisdictions and persons into whose possession any document or other information referred to herein comes should inform themselves about and observe any such restriction. Any failure to comply with these restrictions may constitute a violation of the securities laws of any such jurisdiction.

5 Bluefie