Contractual Framework for Bankable O&M

Neil Bautista

Director of Services, BayWa r.e. Americas

6 September 2018









Members of the SESI O&M workstream





Workstream leaders



Bird & Bird













































































KFW

Simmons & Simmons

∥ TRILEGAL



Introduction and Overall Concept

Objective: Discuss the topic of having a publicly accessible and standardised bankable O&M contract to help the development of solar globally

Parameters considered:

- Bankability
- Market experience from mature markets
- Contract cost
- Efficiency of operations
- Standardization of terms and approach
- Balancing risks among various stakeholders and contracts



Main assumptions of the O&M template contract

Term	Main assumptions and recommendations
Contract term	2 options:1. "Evergreen contract": 5y, automatic renewal for 3y2. Long-term (15 years or to match debt tenor)
Takeover of Plants	 Differentiation between 2 scenarios 1. O&M Contract set up before or during the construction or the 2 year warranty period 2. O&M Contractor takes over later – Known Defects and Missing Spare Parts concepts
Sub-contracts	O&M Contractor is free to pick their subcontract- tors, when possible under local legislation
Spare parts management	 Initial spares for 2y from COD to be procured by the plant owner O&M to maintain, store and replenish all spares – with flexibility around what is included or excluded from O&M price Maintenance reserve account under funding agreement to cover excluded spare parts

Main assumptions of the O&M template contract

Term	Main assumptions and recommendations
Contractually guaranteed Key Performance Indicators	 O&M Contractor should guarantee: Availability, with a minimum guaranteed Availability of 98% and a number of exclusion factors to exclude failures not attributable to the O&M Contractor
	 Response Time: when determining the minimum guaranteed Response Time, it is recommended to differentiate between different fault classes/power losses No Performance Ratio (PR) guarantee provided by the O&M Contractor



Main assumptions of the O&M template contract

Term	Main assumptions and recommendations
Bonus schemes and liquidated damages (LD)	 For the Availability guarantee Bonus Schemes: if the minimum guaranteed Availability is overachieved, the additional revenue (over and above base case) should be equally divided (50/50) between the Asset Owner and the O&M Contractor
	 Liquidated Damages: If the minimum guaranteed Availability is underachieved, 100% of the lost revenue for that period will be compensated by the O&M Contractor via liquidated damages
	 The sum LDs is capped at 100% of annual fee. Bonuses can be offset against LDs and vice versa.



End of Presentation





Rue d'Arlon 69-71, 1040 Brussels, Belgium T +32 2 709 55 20 / F +32 2 725 32 50 info@solarpowereurope.org /www.solarpowereurope.org