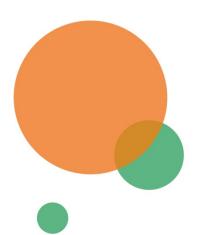


Increasing Profitability through Component Selection, Design Optimization, and Forecasting

19 Nov2013 Romanian Solar Summit



Who is ReneSola?

2 PV plants in Romania



Why would someone speak about the obvious?

New Legislative Challenges
Fragile Electricity Grid
Uncontrolled Growth of Supply
Electricity Market Contraction

Lead to

Pressure on Profits

What can be done to rescue returns?



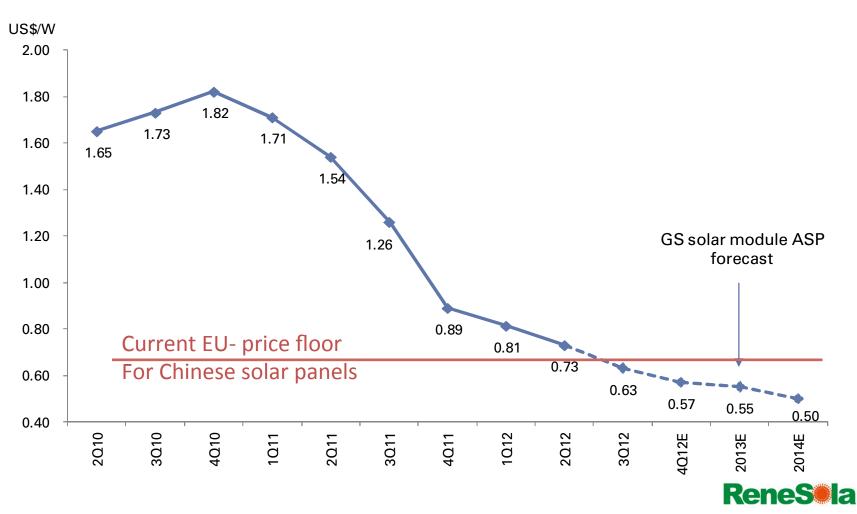
Agenda

- Equipment Choice:
 - Solar Module
 - Inverter
- Increasing Performance through System Design
- Optimization of Forecasting



Solar Module No Longer Driver for Price Declines

Solar module ASP trend, \$ per watt



Source: Goldman Sachs 2013 Equity Research: Americas: Clean Energy: Solar

Key Solar Module Requirements

- 1. Price
 - Solar Module is largest single component of total investment cost
- 2. High Conversion Efficiency
 - Reduced Balance of Systems
- 3. High low-light Performance
 - Irradiation in Romania is diffuse most of the time
- 4. Low Temperature Coefficient
 - Reduced losses during high temperature
- 5. Third Party Underwriter of Performance Warranty
 - Indemnification from warranty claims beyond manufacturer's existence



ReneSola solar modules are made outside of China and meet these requirements using the Virtus II[©] wafer technology



Inverter and Mounting Systems Prices down

Inverter prices 2013

- 1. Central Inverter prices down by 16% to 0.12 USD/W
- 20-35 kW inverter prices down by
 20% to 0.14 USD/W
- 3. Efficiencies and Inverter Software are no differentiator any more
- 4. Chinese manufactures increase competition

Mounting system prices

- 1. Moderate aluminum price drives price decline
- 2. Higher conversion efficiency reduces material usage
- 3. Prices dropped by 0.03 USD/W in 2013



Availability of the System: Central vs. String Inverters

	Central Inverter	String Inverter
Investment Cost	0.09 EUR/W	0.09 EUR/W
Number of Inverters	1	30
DC Capacity of Inverters	600 kWp	20 kWp
Failures in five years	5	15
Time to remedy a failure	5 days	1 day
Outage in five years	25 days	7.5 day



String inverters can increase the availability of the system



Equipment Choice

- 1. Price
- 2. Performance
- 3. Longevity
- 4. Maintenance
- 5. Warranties





Virtus®|| Module

250W, 255W, 260W



Replus 10000TL3B-US 12000TL3B-US 18000TL3B-US 20000TL3B-US



Optimisation of Design: Increasing Yield

Avoid Shading

- Distance between module tables
- Nearby objects
- Onsite container / compact station locations
- Pilons for lighting, security cameras

Increase String Performance

- Landscape solar module orientation:
 - Daily marginal shading
 - Heat coefficient
- Module warranty terms

Auxiliary Design

- Security Systems
- Auxiliary Electricity
- Monitoring
- SCADA / Dispatch
- Electricity Meter Data



Forecast is Special Requirement in Romania

Forecasting Requirement

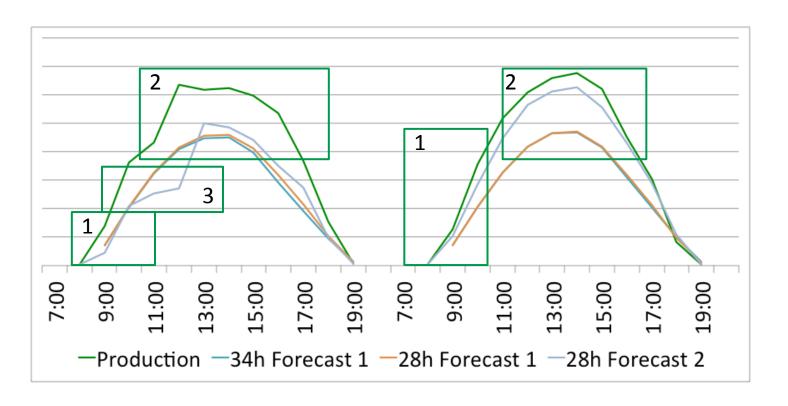
- Day-ahead forecasts required by traders.
- Dispatchable PV systems: Only forecasted electricity is awarded GC's
- No intraday market functioning yet

Impact on Profitability

- GCs are not awarded for electricity which was not forecasted
- Every dispatchable PV producer will optimise GC revenues
- Systematic over-Forecasting will lead to higher costs for balancing



Minimising Forecast Errors



- 1. Astronomy
- 2. Efficiency
- 3. Weather

- Imbalances accumulate
- Some forecasts cause -20% GC's and electricity sale



Increasing Profitability through...

... Component Selection

- Solar Module
- Inverter Type

... Design Optimization

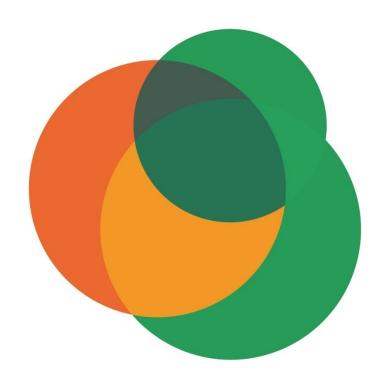
- Avoiding Shading
- String Performance
- Auxilaries

... Forecasting

Being Precise







Disclaimers & Safe Harbor Statement

This presentation does not constitute an offer to sell or issue or the solicitation of an offer to buy or acquire securities of Renesola Ltd (the "Company") in any jurisdiction or an inducement to enter into investment activity, nor may it or any part of it form the basis of or be relied on in connection with any contract or commitment whatsoever.

The information herein has been prepared by the Company solely for use in this presentation. No representation, warranty or undertaking, express or implied, is made as to, and no reliance should be placed on, the fairness, accuracy, completeness or correctness of the information or the opinions contained herein. None of the Company or any of its affiliates, advisors or representatives will be liable (in negligence or otherwise) for any loss howsoever arising from any use of this presentation or its contents or otherwise arising in connection with the presentation.

By attending this presentation, participants agree not to remove this document, or any materials provided in connection herewith, from the conference room where such documents are provided. Participants agree further not to photograph, copy or otherwise reproduce these materials in any form or pass on these materials to any other person for any purpose, during the presentation or while in the conference room. Participants must return this presentation and all others materials provided in connection herewith to the Company at the completion of the presentation.

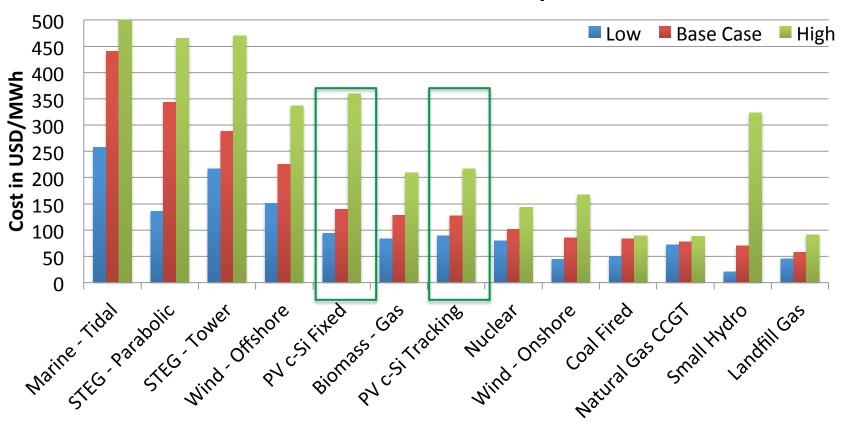
This presentation contains forward-looking statements and management may make additional forward-looking statements in response to your questions. These statements are made under the "safe harbor" provisions of the U.S. Private Securities Litigation Reform Act of 1995. These forward-looking statements can be identified by terminology such as "will," "expects," "anticipates," "future," "intends," "plans," "believes," "estimates," "confident," and similar statements. Statements that are not historical facts, including statements concerning our beliefs, forecast, estimates and expectations, are forward-looking statements. Forward-looking statements involve inherent risk and uncertainties that could cause actual results to differ materially from those projected or anticipated, including risks related to: the risk that our results of operations may fluctuate from period to period, the risk of PRC governmental policy changes; the risk that we face intense competition from other solar companies; the risk that PRC economic, political and social conditions as well as government policies can affect our business and other risks outlined in our public filings with the Securities and Exchanges Commission, including our registration statement on Form F-1, as amended.

The forward-looking statements made in this presentation related only to events or information as of the date on which the statements are made in this presentation. Except as required by law, we undertake no obligation to update or revise publicly any forward-looking statements, whether as a results of new information, future events or otherwise, after the date on which the statements are made or to reflect the occurrence of unanticipated events.



Solar PV is an affordable energy source







Solar PV is a competitive energy source



