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TIME	TOPIC	SPEAKER		
08.30 – 09.30	<ol> <li>Introduction</li> <li>Markets and opportunities</li> </ol>	Raymond Carlsen, CEO Terje Osmundsen, SVP		
Break				
09.45 – 10.45	<ul><li>3. Project development</li><li>4. Solutions</li></ul>	Terje Pilskog, EVP Pål Helsing, EVP		
Break				
11.00 – 12.00	<ul><li>5. Power Production and O&amp;M</li><li>6. Financials and funding</li></ul>	Torstein Berntsen, EVP Mikkel Tørud, CFO		
Break				
12.15 – 13.00	<ul><li>7. EBRD – Lenders perspectives</li><li>8. Summary and Q&amp;A</li></ul>	Harry Boyd-Carpenter Raymond Carlsen, CEO		

### **Speakers**



Raymond Carlsen, CEO

Mr. Carlsen joined Scatec Solar in 2009 from Aker ASA, where he was responsible for the development of the company's portfolio of energy related businesses. He has more than 20 years of industrial experience from management positions.



Terje Osmundsen, SVP Business Development Mr. Osmundsen joined Scatec Solar in 2009 and is responsible for Business Development, Emerging Markets. Broad professional background including Prime Minister's Office, management consulting, leadership roles from telecom, engineering and energy industries. Regular contributor to industry and public debate on climate and energy issues.



Terje Pilskog, EVP
Project Development &
Project Finance

Mr. Pilskog joined Scatec Solar in 2012 from the position as SVP of REC Systems and Business Development in Germany. Prior to REC, he was Associated Partner at the management consulting company McKinsey & Co.



Pål Helsing, EVP Solutions Mr. Helsing joined the Company in 2015 from the role as President of Kongsberg Oil and Gas Technologies AS and a member of the Kongsberg Group Executive Management Team. Before that, he held several executive positions within Aker Solutions.



Torstein Berntsen, EVP Power Production & Asset Management Mr. Berntsen joined Scatec Solar in 2010 from the position as CFO in the parent company Scatec AS. Before joining Scatec, he had more than 10 years of experience from Arthur Andersen and later Ernst & Young.



Mikkel Tørud, CFO

Mr. Tørud joined Scatec Solar in 2014 from the position as SVP Investor Relations and Business Development and member of Group Management in REC. Prior to REC he was commercial advisor in BP and management consultant in PA Consulting Group.



Harry Boyd-Carpenter, Senior Banker at EBRD Mr. Boyd-Carpenter is a Senior Banker in EBRD's Power and Energy Utilities team with responsibility for all EBRD's activities in the Egyptian and Jordanian power sectors. He has worked on a wide range of debt and equity transactions in the power and infrastructure sectors across Russia, Mongolia, the Caucasus, the Balkans and Jordan.





# 1. Introduction



### Generating and capturing PV value in emerging markets



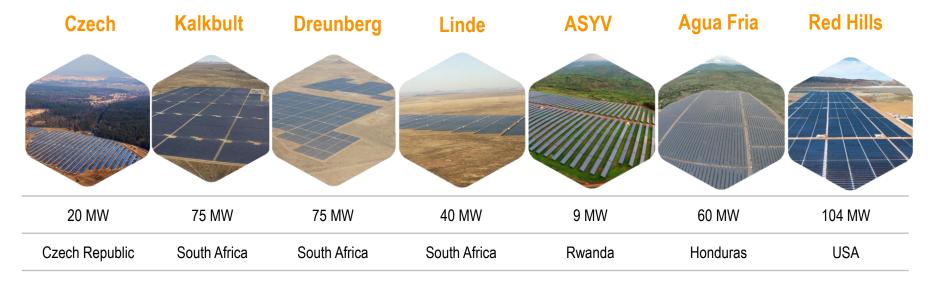
- Fully integrated business model tailored for emerging markets
- 2 Strong global demand for PV accelerates growth in opportunities
- Excellent track record in capturing value from complex PV projects
- Solid asset base and a significant self funding capacity
- 5 Strong project pipeline supporting further growth in attractive markets



# Scatec Solar

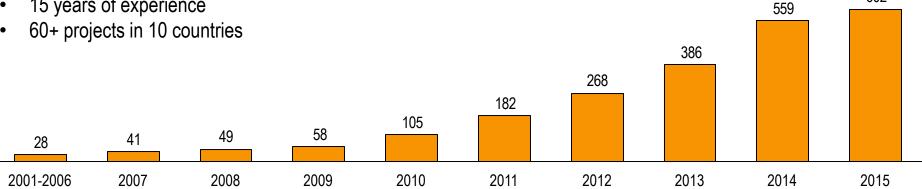
### A solid track record of developing and building PV

#### 383 MW in operation:



#### Installation track record (MW):

15 years of experience

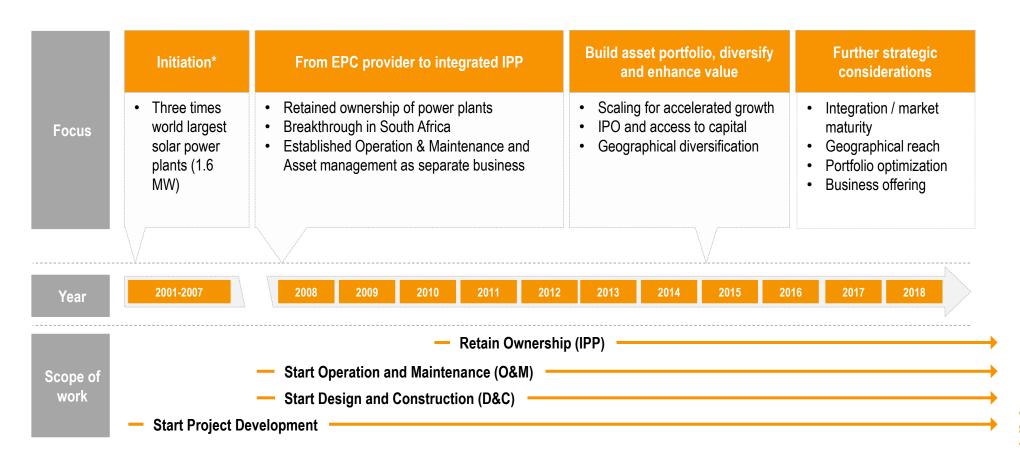


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# Scatec Solar Improving our future™

### SSO strategy evolving with shifting industry dynamics

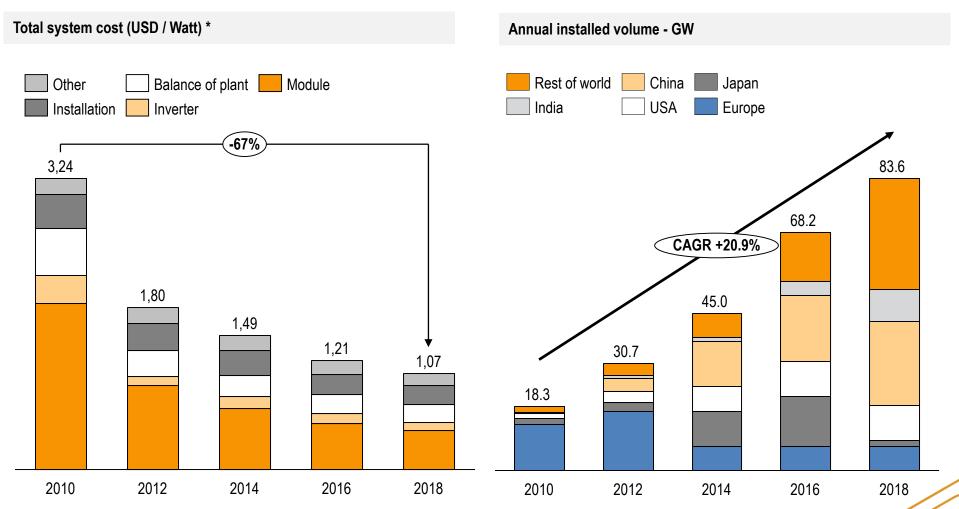
Scatec has evolved and continues to adapt to market and industry dynamics



<sup>\*</sup> Through integration of the acquired German developer Solarcompetence

# Scatec Solar Improving our future™

### Cost reductions drives strong demand growth



<sup>\*</sup> System cost will vary from market to market depending on system size, market maturity, bankability etc.

Source: Bloomberg New Energy Finance, Q1 2016 PV Market Outlook

### **Integrated Independent Power Producer**



### Scatec Solar develops, builds, owns & operates solar plants for 20 years

Phases

#### Origination

Opportunity

#### **Development**

• Pipeline

#### Structuring

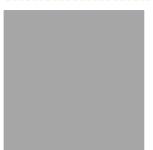
Backlog

#### **Delivery**

Construction

### Power Production O&M

Operation



Key activities



- Analysis & Intelligence
- Business opportunity
- Partnerships
- Commercial viability



- Site control
- PPA and support agreements
- Business case
- Regulatory approvals/permits



- Equity, debt structuring
- Engineering



- Procurement
- Construction Management



- Operation & Maintenance
- Asset management

### The integrated model captures the full project value



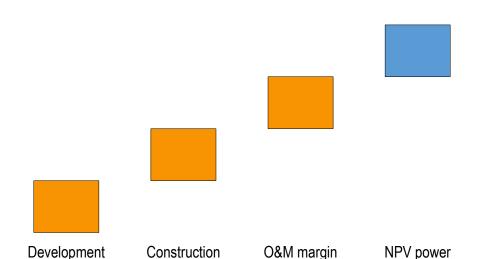
#### **Project development & construction:**

Provides access to attractive project pipeline

margin

Generates D&C margins that can be reinvested as equity in projects

margin



#### Long term asset ownership:

- Generates steady long term cash flows
- Fliminates 'friction losses'

Optimize

performance

production

 Active asset management to enhance value of portfolio

Cost of capital

Residual value

Total value



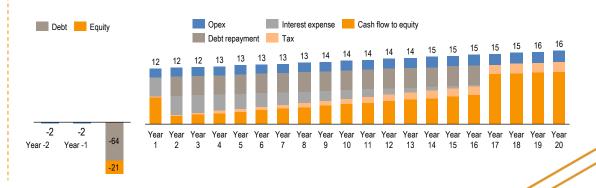


- With small integrated teams we can assess new project opportunities effectively
- Key questions: Can we apply our business model, meet our financial targets and control risks?
- Quality assessments ensure resource discipline and increase likelihood for success

#### **Project assessment using SSO competencies:**



#### The business case:







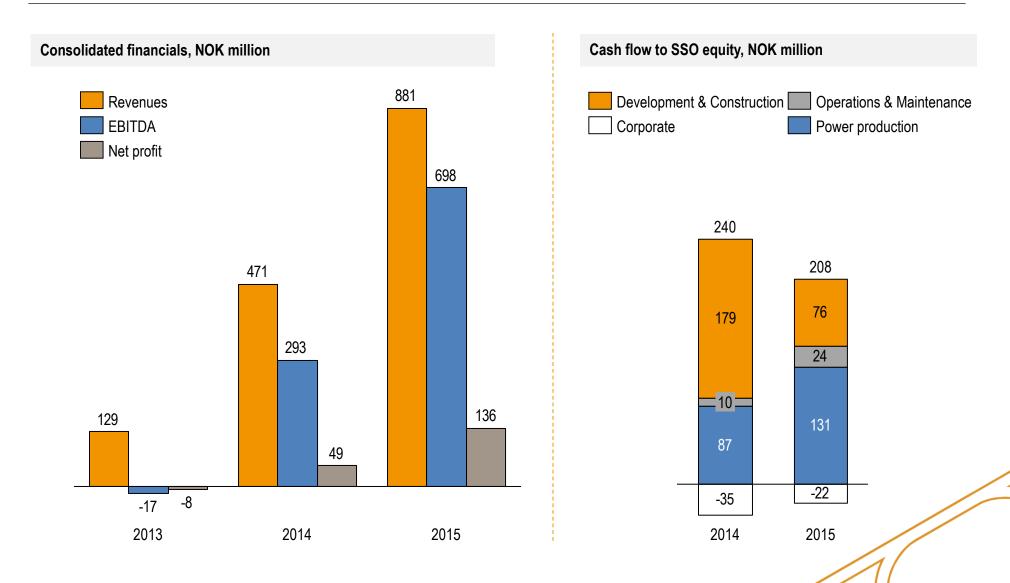
- Solar plants embedded in local communities in emerging economies for 20-25 years
- Economic activity is of vital importance to both countries and communities
- Local suppliers, local employees and good relations with local communities impact performance, cost and risks
- Environmental and Social Impact Assessments are undertaken at the start of the project phase
- Community relations, social and environmental impacts are managed as an integrated part of the business
- Specialist advisors engaged to manage CSR and Economic Development programs





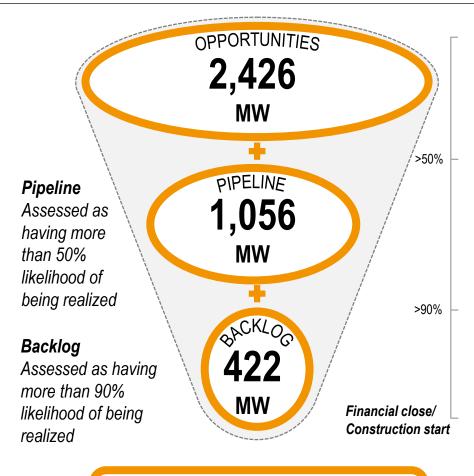
### A history of profitable growth





### Strong project pipeline in attractive markets





#### **Regions**

Americas, Africa, Asia, MENA

#### **Regions**

Americas, East and West Africa, South Africa, Egypt, Pakistan

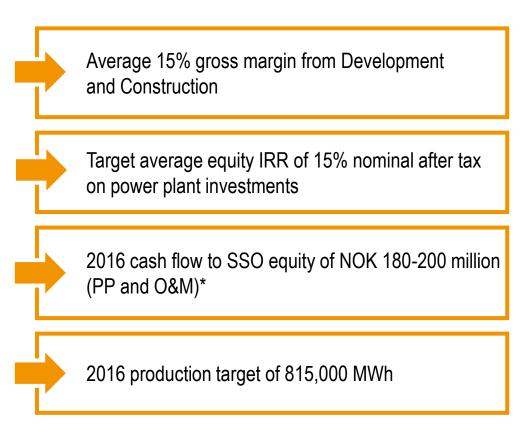
#### **Regions**

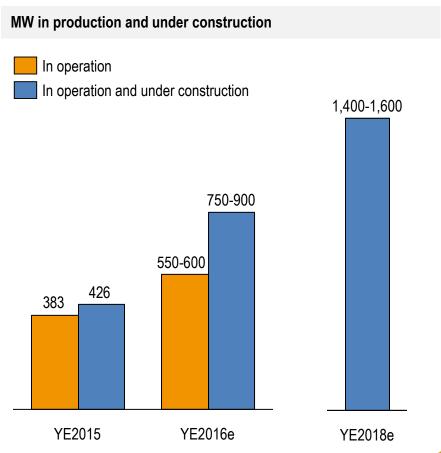
South Africa, Mali, Honduras, Brazil

in operation / under construction 426 mw

### **Outlook and targets**





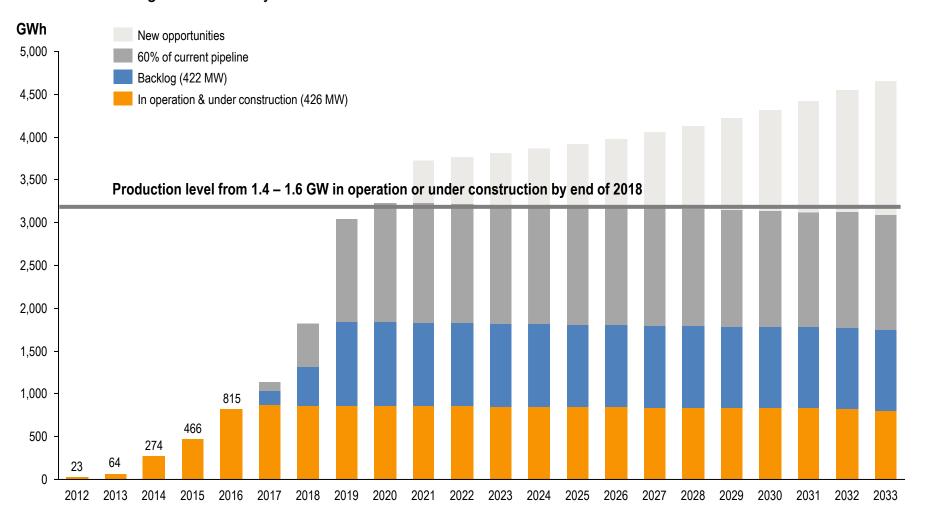


<sup>\*</sup> Based on currency rates as of mid April 2016. Utah Red Hills with no cash flow contribution in 2016 based on merchant pricing. The higher PPA price effective from Jan 1 2017.





- Power production set to reach more than 3 TWh per year with current growth targets
- Contract length of 20 to 25 years





2. Market and opportunities



### Introduction



- Scatec Solar a track record as early mover:
  - South Africa (from 2010)
  - Mali (from 2011)
  - Jordan (from 2012)
  - Egypt (from 2014)
- Developed a holistic skill-set and capabilities particularly competitive in emerging markets
- Globally, numerous emerging markets ready to embrace PV development
- SSO: Developing unique opportunities in several of tomorrow's growth markets



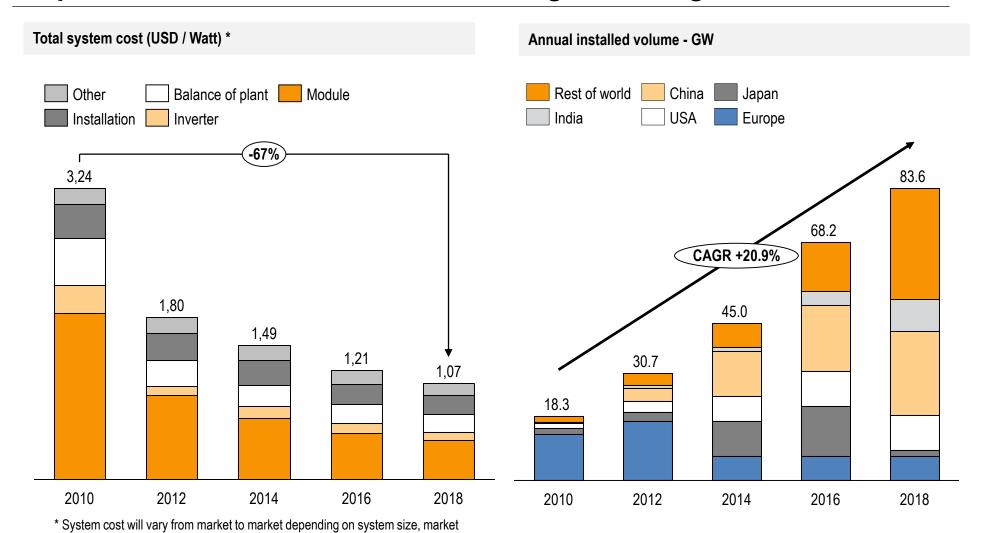
### Developing opportunities in a fully integrated model



Phases	Origination • Opportunity	Development • Pipeline	Structuring  • Backlog	Delivery  • Construction	Power Production O&M • Operation
Key activities	<ul> <li>Analysis &amp; Intelligence</li> <li>Business opportunity</li> <li>Partnerships</li> <li>Commercial viability</li> </ul>	<ul> <li>Site control</li> <li>PPA and support agreements</li> <li>Business case</li> <li>Regulatory approvals/permits</li> </ul>	<ul><li>Equity, debt structuring</li><li>Engineering</li></ul>	<ul><li>Procurement</li><li>Construction Management</li></ul>	<ul> <li>Operation &amp; Maintenance</li> <li>Asset management</li> </ul>
Integration of competence and capabilities	Engineering, Procurement, Construction      Debt and equity structuring     Working capital  Power market analysis Grid impact studies  Power market  Power market  Power market  Commercial  Power market  Commercial  Commercial  Commercial  Power market  Commercial  Commercial  Power market  Commercial  Power market  Commercial  Power market  Power purchase agreements  Contract/SPV structuring				n

### Impressive cost reductions drive strong demand growth



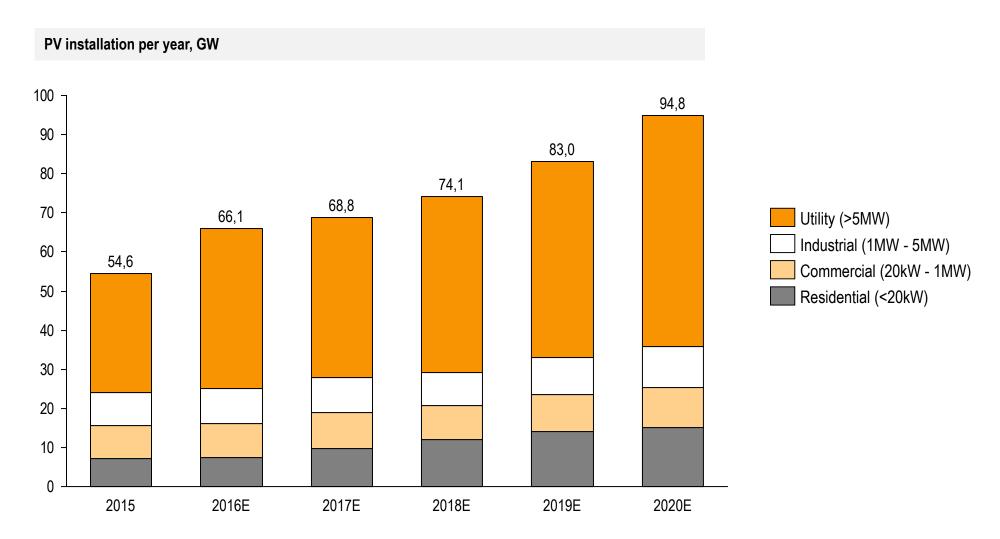


maturity, bankability etc.

Source: Bloomberg New Energy Finance, Q1 2016 PV Market Outlook







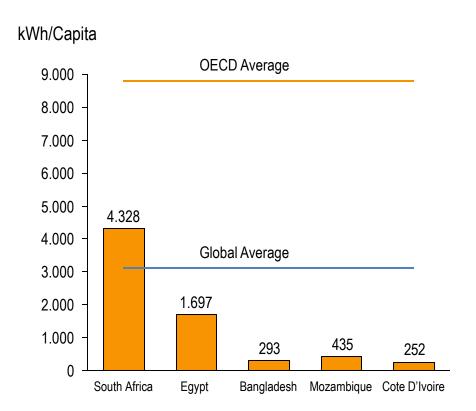
Source: GTM, Solar Summit, May 2016

# **Emerging markets: Struggling to meet fast-growing demand**

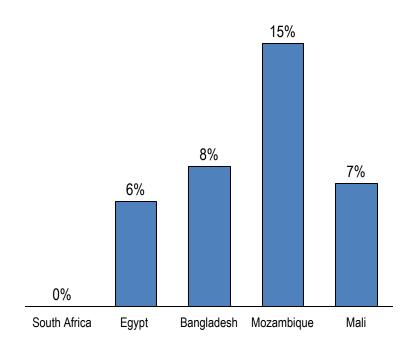


Energy consumption per capita 2013

Average annual growth in power consumption



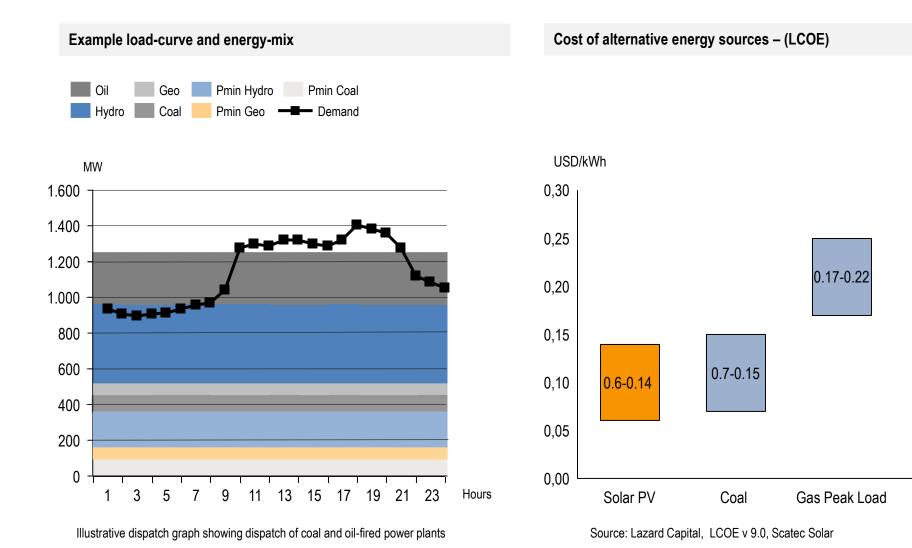
Source: World Bank, Development Indicators



Source: Recent official estimates

### **Solar PV is competitive**



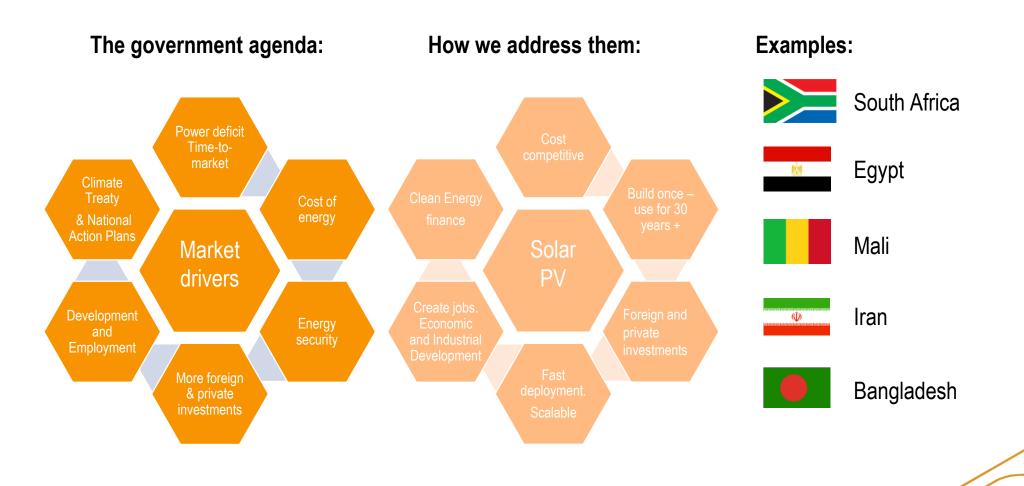


0.19-0.26

Diesel

### Multiple drivers of demand for solar





### Norwegian and international partners key for our success



#### Norfund partnership:

- Project development and investment partnership
- Norfund (with KLP) are equity co-investors in South Africa, Rwanda and Honduras

#### IFC partnership:

 Project development and investment partner in West Africa, South Asia

#### **GIEK** partnership

- Project finance
- Guarantees and bonds

#### **Project finance partners**

Multilateral development banks and commercial institutions

#### **Climate finance partners**

#### **Key benefits:**

- Access to lower cost of capital
- Expanded network for project origination
- Risk mitigation























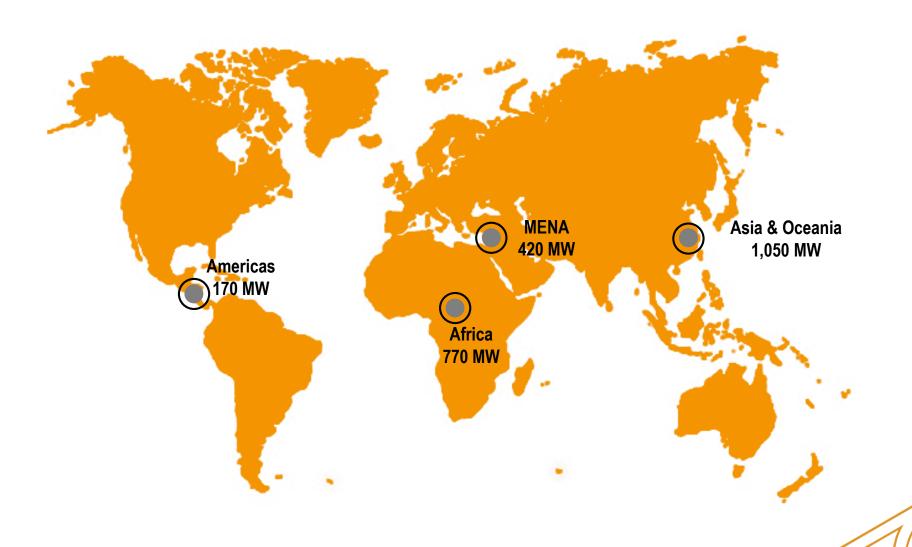
### **Early-phase development: Our toolbox**



Phase	Origination			
Opportuni	Attract and identify opportunities	Develop and manage business case Enter pi		
Activities	<ul> <li>In-depth market and trend analysis</li> <li>External communication, stakeholder presentations, building relationships</li> <li>Efficient screening of enquires</li> </ul>	<ul> <li>Evaluate and secure land</li> <li>Explore finance arrangements</li> <li>Social and environmental and grid assessment</li> <li>Negotiate initial commercial arrangements</li> </ul>		
Know-how	<ul> <li>Business innovation</li> <li>Thought leadership</li> <li>Inter-cultural understanding and awareness</li> </ul>	<ul> <li>Technical-financial</li> <li>Deep socio-economic understanding</li> <li>Project and relationship management</li> </ul>		
(Network	<ul> <li>Finance and other business partners</li> <li>NGOs</li> <li>"Team Norway"</li> <li>Developers and national stakeholders</li> <li>Local stakeholders</li> </ul>	<ul> <li>Co-development partners</li> <li>Off-taker and host government agencies</li> <li>DFIs, project and climate finance partners</li> <li>Technology and equipment providers</li> </ul>		

### 2.4 GW of opportunities – emerging markets focus







# 3. Project Development and Project Finance



### **Develop to capture full project value**



- From opportunity to financial close
- Integrated approach for efficient project development
- Strong central organization with local development partners
- Value creation and sustainability key development drivers
- Predictable cash flows to enable attractive, nonrecourse financing
- A solid pipeline and backlog has been built over the last 12 months





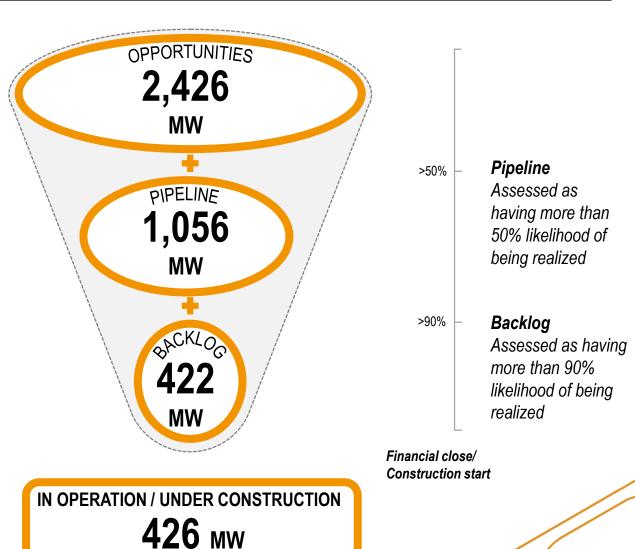
### Project development in the integrated model

Phases	Origination • Opportunity	Development  • Pipeline	Structuring  • Backlog	Delivery  • Construction	Power Production O&M • Operation
Key activities	<ul> <li>Analysis &amp; Intelligence</li> <li>Business opportunity</li> <li>Partnerships</li> <li>Commercial viability</li> </ul>	<ul> <li>Site control</li> <li>PPA and support agreements</li> <li>Business case</li> <li>Regulatory approvals /permits</li> </ul>	<ul><li>Equity, debt structuring</li><li>Engineering</li></ul>	<ul> <li>Procurement</li> <li>Construction         <ul> <li>Management</li> </ul> </li> </ul>	<ul><li>Operation &amp; Maintenance</li><li>Asset management</li></ul>
Integration of competence and capabilities	<ul> <li>Engineering, Procurement, Construction</li> <li>Debt and equity structuring</li> <li>Working capital</li> <li>Power market analysis</li> <li>Grid impact studies</li> </ul> Finance <ul> <li>CSR</li> <li>Management</li> <li>Financial optimisation</li> <li>Sustainability</li> <li>Plant optimisation</li> <li>Maintenance</li> <li>Power Purchase agreements</li> <li>Contract/SPV structuring</li> </ul>			n	





- Local partner set-up
- Sustainability
- 15% gross D&C margin
- Average nominal after-tax 15% return on gross equity investment
- Predicable cash flows
- Net equity investment level
- Additional sources of revenues and value
- Repatriation of funds
- Risk and security mitigation



### Project development organization



- 3 Scatec Solar hubs
- Clear direction and focus on business model
- Tight central control on development spending and business case
- Local development partners managed by SSO hubs
- Development partners with equity participation
- Global development partners like IFC and Norfund



<sup>\*</sup> Not exhaustive list of all local development partners

Part 3.5

### **Project development process**



Activity	<b>Opportunity</b> <i>Ongoing</i>	<b>Development</b> 6-18 months	<b>Structuring</b> 6-9 months
Development partners	<b>—</b>		
Development budget	$\rightarrow$		
Site selection		<b></b>	
Site surveying		<b>———</b>	
PPA		<del></del>	
Environmental permits			<b>——</b>
Socialization of project			<b>——</b>
Pre-design / engineering			<b>——</b>
Support Agreement			<b>——</b>
Grid connection			<b>——</b>
Legal structure			<del></del>
Construction permits			<b>——</b>
Business case validation			<del></del>

### Stable and predictable cash flows



#### **Power production**

- Stable resource
- Proven technology
- Guaranteed performance

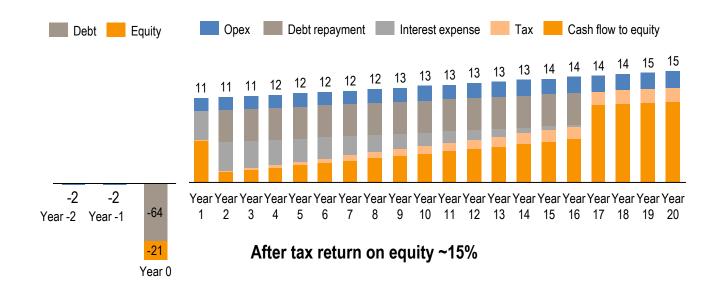
#### Revenues

- Take or pay energy sales
- Creditworthy off-takers
- Sovereign guarantees
- Guaranteed uptime

#### Costs

- Stable debt service
- O&M agreements
- Matched currencies
- Equipment warranties
- Insurance

#### 50 MW solar power plant example (USDm)\*



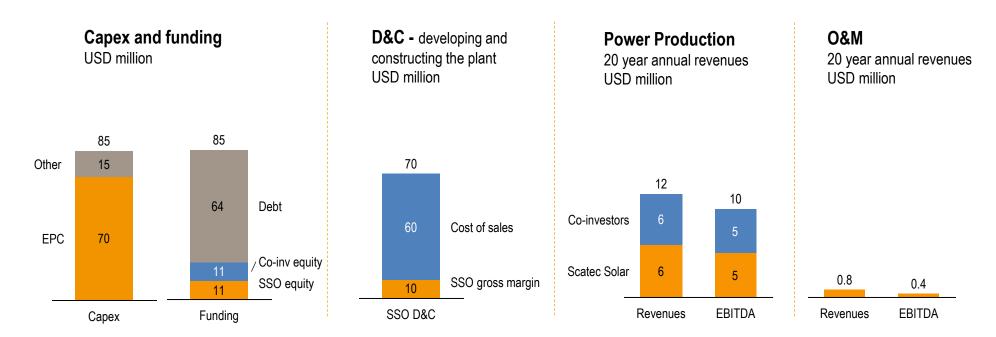
Part 3.7

<sup>\*</sup> Based on tariff of 11 USD cent/kWh

### Value creation in the integrated model



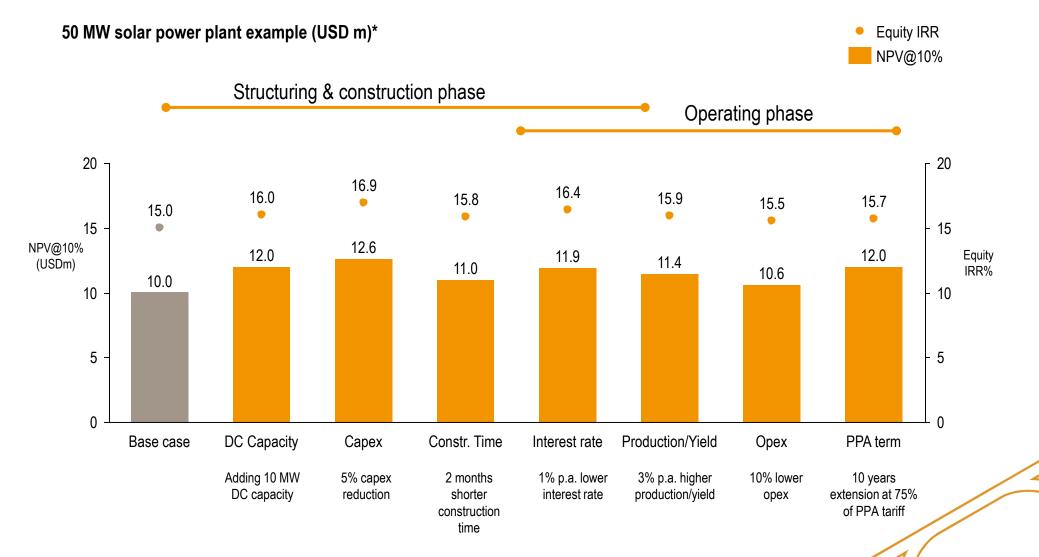
#### 50 MW solar power plant example (USD m)\*



<sup>\*</sup> Based on tariff of 11 USD cent/kWh, SSO 50% ownership

### A number of factors influence the project returns

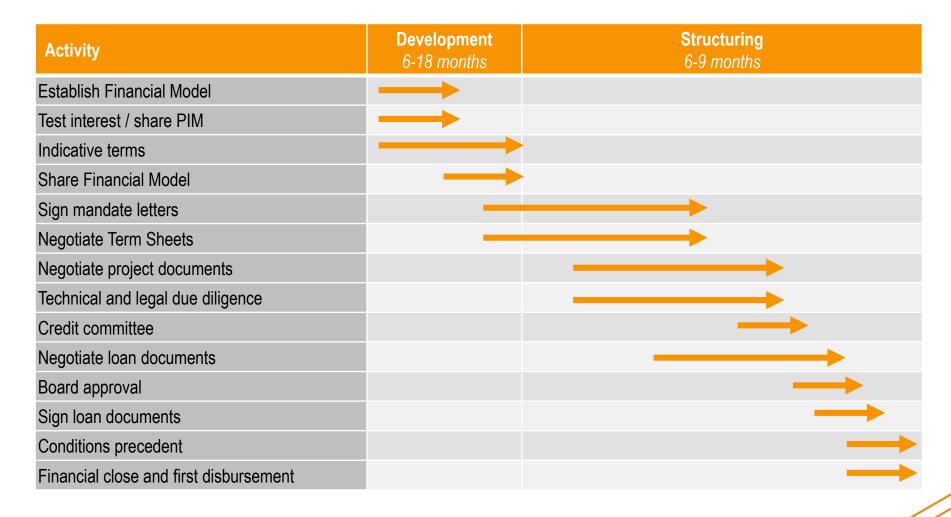




<sup>\*</sup> Based on tariff of 11 USD cent/kWh







### Lowest possible funding costs



#### Leverage

- Debt sizing based on debt service capacity
- Mezzanine structures

#### Costs of debt

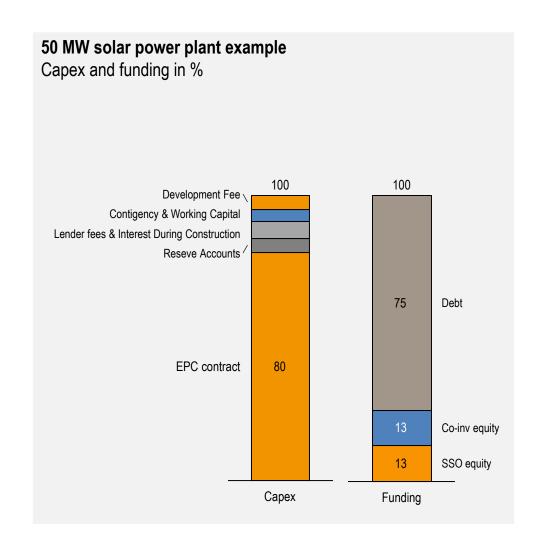
- Commercial banks vs Development banks (DFIs)
- Interest rates, hedging and tenure
- Concessional financing and grants
- Transaction fees

#### **Limit funding need**

- Limit reserve accounts and contingencies
- Manage transaction fees legal costs

#### **Equity costs**

- SSO equity participation
- Shareholder loans
- Co-investors



### **Project Finance for key projects**

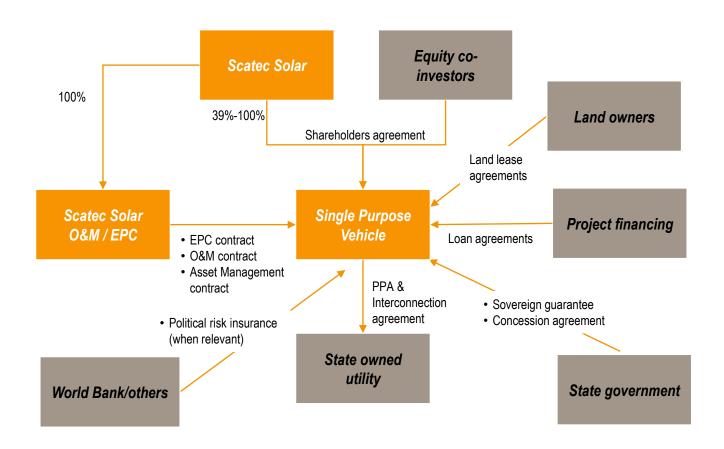








Simplified illustration of company structure and main contracts in place







Pål Helsing, EVP

#### Our values

Predictable
Driving results
Changemakers
Working together





### Building plants with a well proven operating model

Our integrated approach is key to provide an optimised solution from project development through construction, operation and maintenance to power production.

Value-contribution to our integrated model:

- Engineering in close collaboration with Project Development and O&M ensuring optimum plant design
- Procurement leveraging a high global volume to achieve low costs and tier-1 partnerships
- Close cooperation with local construction companies to ensure competitive "balance of system costs" and effective risk-mitigation





Scatec Solar projects under construction

## Solutions in the fully integrated model

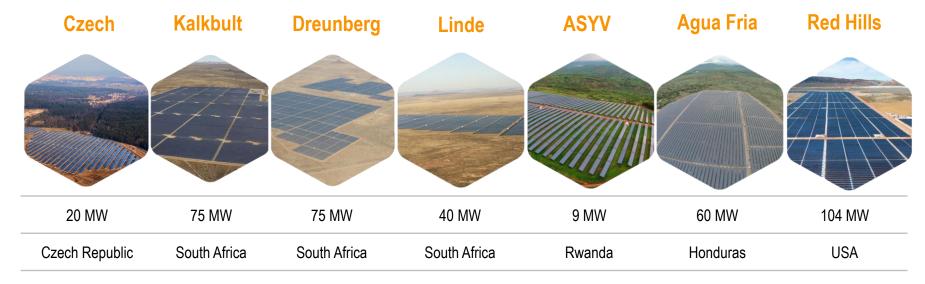


Phases	Origination • Opportunity	Development  • Pipeline	Structuring  • Backlog	Delivery  • Construction	Power Production O&M • Operation	
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### A solid track record of building solar plants

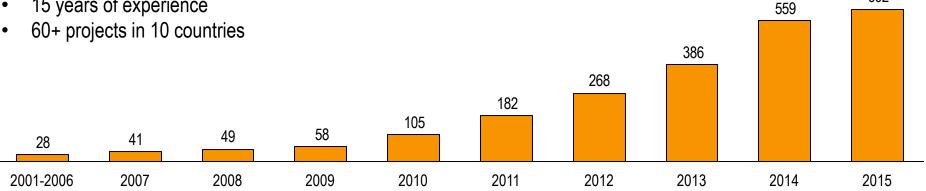


#### 383 MW in operation:



#### Installation track record (MW):

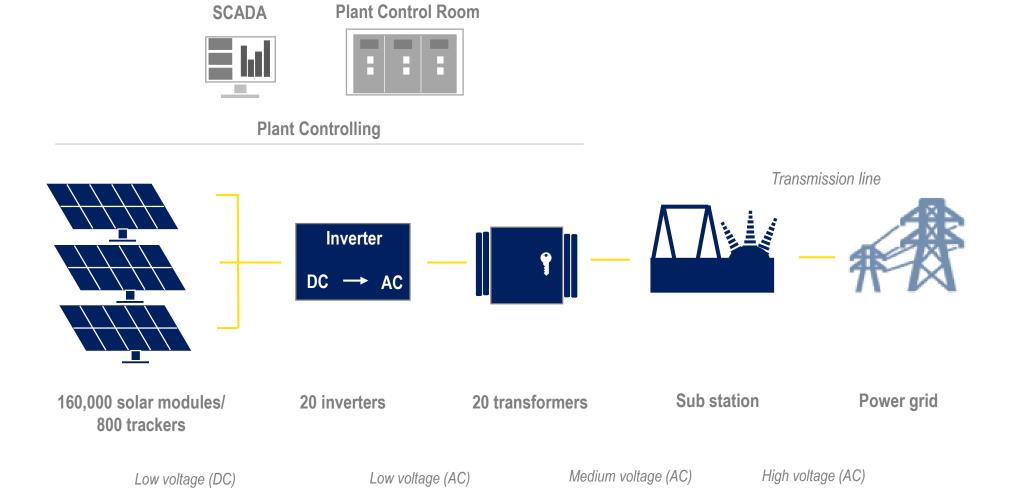
15 years of experience



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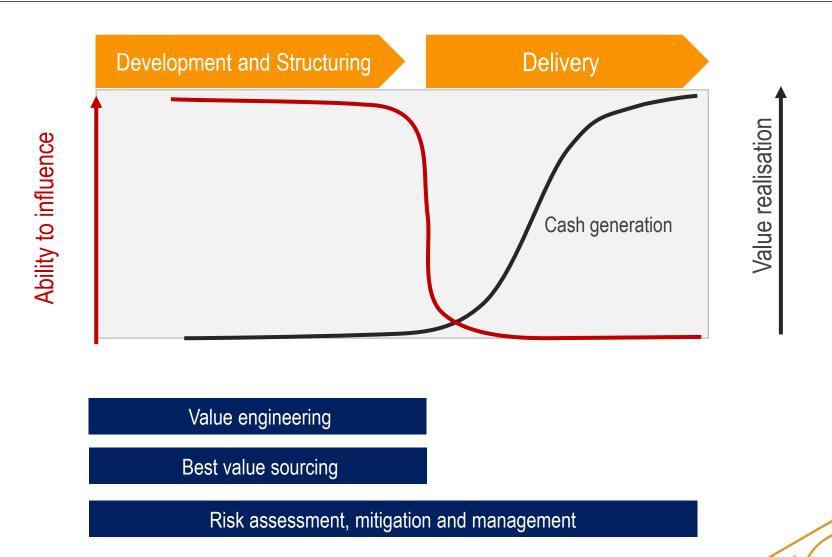
### 50 MW PV plant – build up





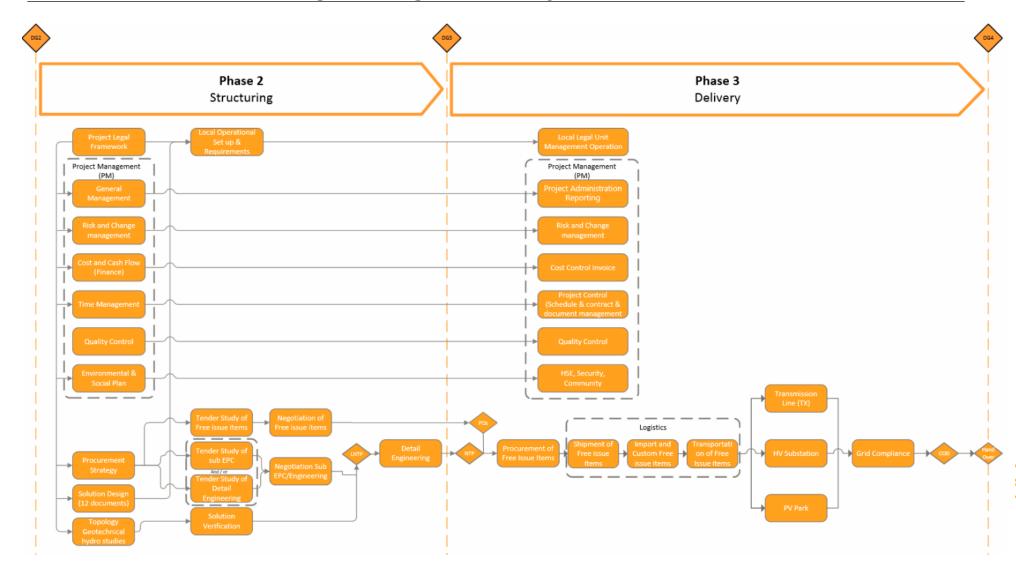
## Our integrated approach enables key decisions to be made at an early stage of the project





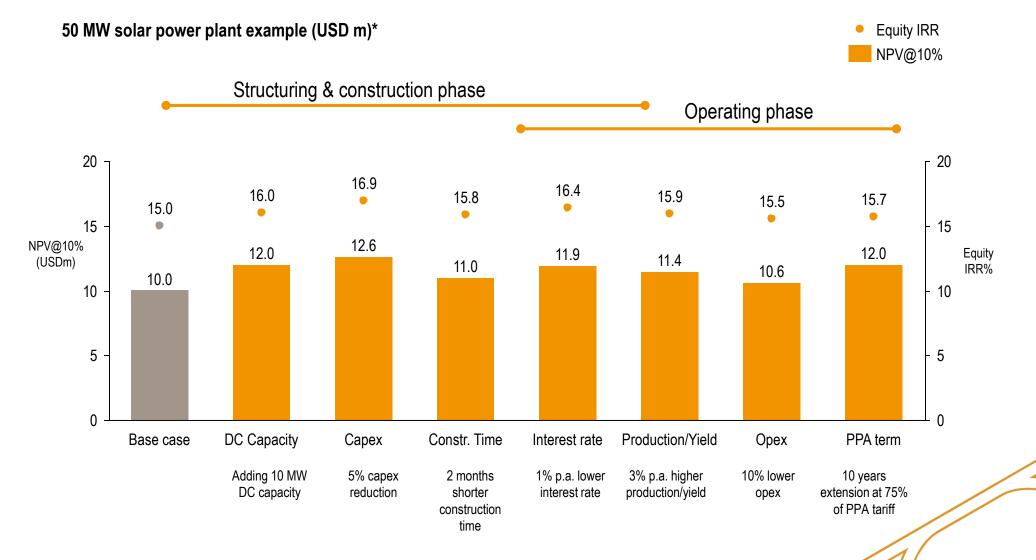
# A standard high level operating model and project plan from Structuring through Delivery





## Value drivers in the engineering and construction phase





<sup>\*</sup> Based on tariff of 11 USD cent/kWh



### Our sourcing model is tailored to our projects

Sourcing based on frame agreements focusing on cost, quality and delivery assurance



- Leverage high volume in project pipeline and opportunities
- Regular verification of competitiveness and technology development to ensure we are at forefront of a fast changing industry
- Roadmaps to include O&M needs

In country risk "boxed" into one construction contract (sub-EPC)



- Scope: From receipt of "bulk" material to mechanical completion
- Close cooperation to meet our CSR standard
- Effective execution utilising synergies between local knowledge and Scatec Solar's EPC experience
- Extensive contractor engagement program

## Installation work includes a high number of standard components and work processes



Typical volume for 50 MW power plant

• Containers: 1 000

Drilling of foundation holes: 13 500

Ramming of foundation piles: 13 500

Installation of substructure tables: 4 500

Installation of modules: 180 400

- Significant opportunity for
  - Optimisation of work processes
  - Use of unskilled labour
- High need for quality control





## **Sustainability is core and profitable**



### **Example from some recent projects**

<u>-</u>			
	Agua Fria, Honduras 60 MW	Dreunberg, South Africa 75 MW	ASYV, Rwanda 9 MW
Jobs Created (Mounting and construction workers during peak construction period)	1,050	1,400	600
% Local Employees*	82%	77%	85%
Numbers of workers with documented skill enhancement	275**	142***	400**
Lost Time Injuries (Incident resulting in absence of one day/shift or more)	2	0	1



### **Summary**



Our integrated approach is key to provide an optimised solution from project development through construction, operation and maintenance to power production.

### A robust project execution model:

- Operating system based on long experience from construction of PV plants
- Strong Project Management and project control
- Optimised plant design through multidiscipline teams
- Global sourcing leveraging high volumes
- Implementation of comprehensive quality plans ensuring plant performance





Scatec Solar projects under construction



5. Power Production, Asset Management and O&M



## Securing and maximizing returns from a growing portfolio of power producing assets

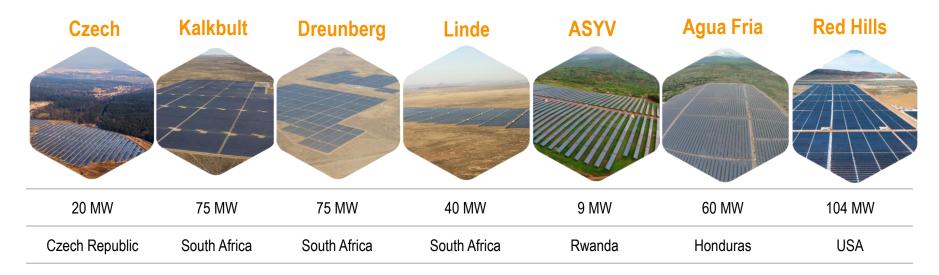


Phases	Origination • Opportunity	Development • Pipeline	Structuring  • Backlog	Delivery • Construction	Power Production O&M • Operation
Key activities	<ul> <li>Analysis &amp; Intelligence</li> <li>Business opportunity</li> <li>Partnerships</li> <li>Commercial viability</li> </ul>	<ul> <li>Site control</li> <li>PPA and support agreements</li> <li>Business case</li> <li>Regulatory approvals/permits</li> </ul>	<ul><li>Equity, debt structuring</li><li>Engineering</li></ul>	<ul><li>Procurement</li><li>Construction Management</li></ul>	<ul> <li>Operation &amp;         Maintenance</li> <li>Asset         management</li> </ul>
Integration of competence and capabilities		ing Finance The	CSR Asset Management  Project opportunity  Commercial Legal and regulatory	Financial optimisation     Sustainability      Plant optimisation     Maintenance      Power Purchase agreements     Contract/SPV structuring	

## Benefits of an integrated, industrial approach to operating power plants



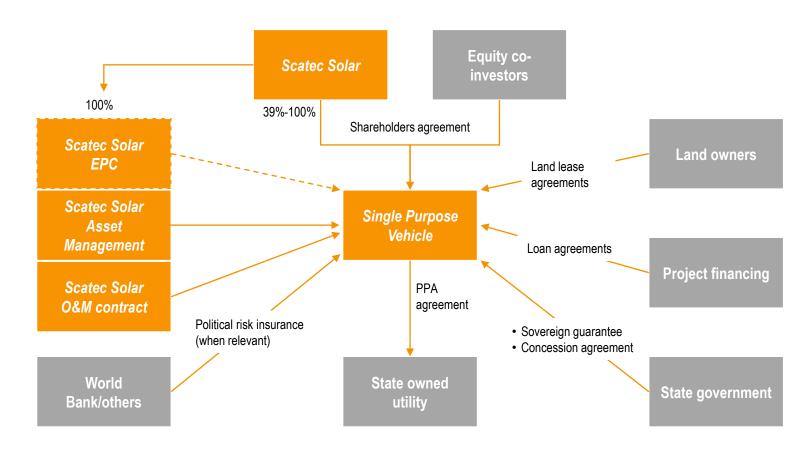
- Aligned focus on operational excellence and maximizing kWh produced
- Continuous search for improvement opportunities trough multidisciplinary teams
- Experience gained in operations translated to improvement initiatives for new projects
- Scale advantages and steeper learning curves through sharing of resources
- Additional cash flows from O&M and AM services



## Contractual structure established to ensure good governance and efficient operations



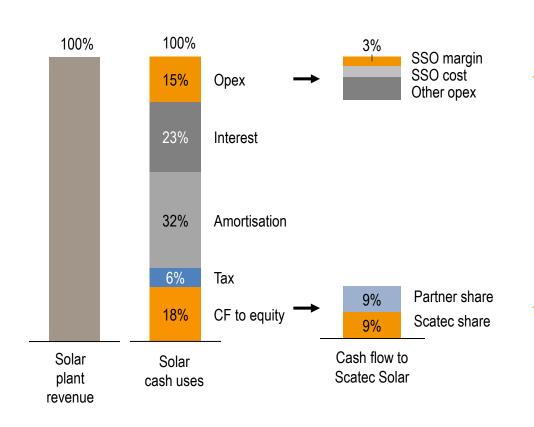
Simplified illustration of company structure and main contracts in place



## Generating significant cash-flow from multiple sources



### 50 MW project example - typical structure



### Asset Management fee to Scatec Solar

#### **O&M Margin to Scatec Solar**

Impacted by plant performance through bonus arrangements

#### Scatec Solar equity-share of dividends

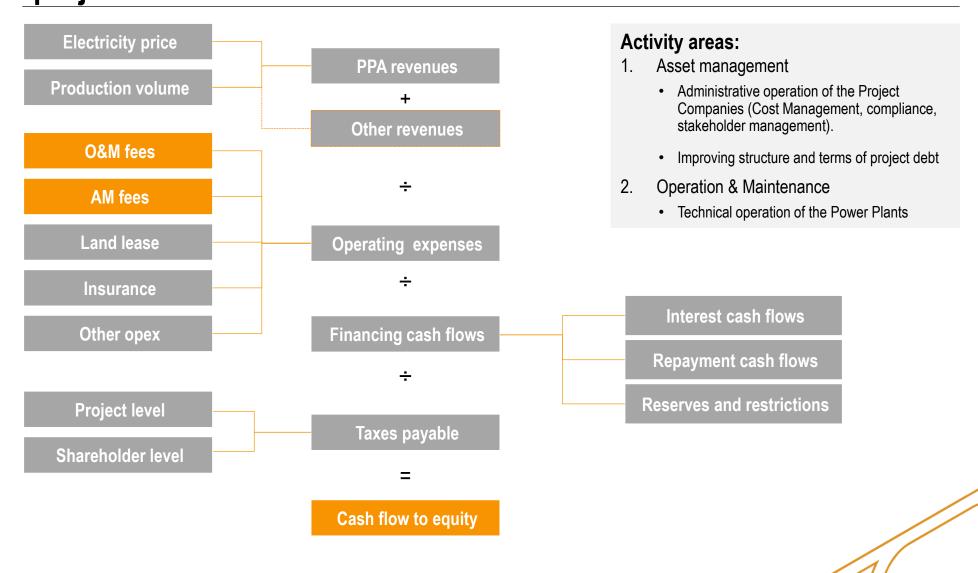
Impacted by plant performance

Scatec Solar share of residual value

## **Key drivers of Cash Flow to Equity in an operating project**

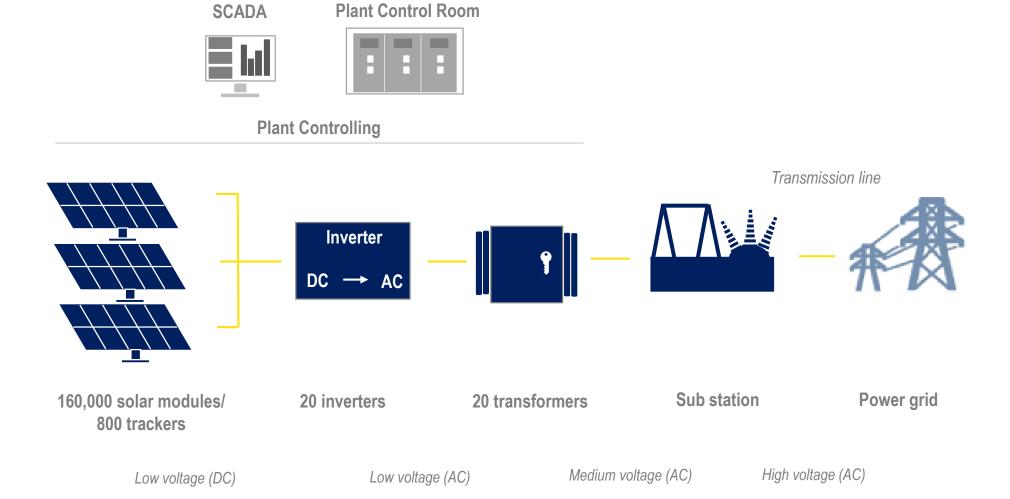


Part 5.6



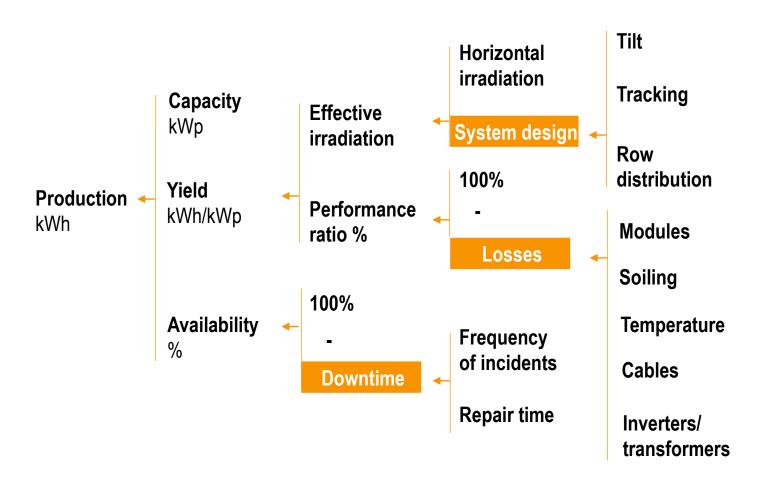
### 50 MW PV plant – build up





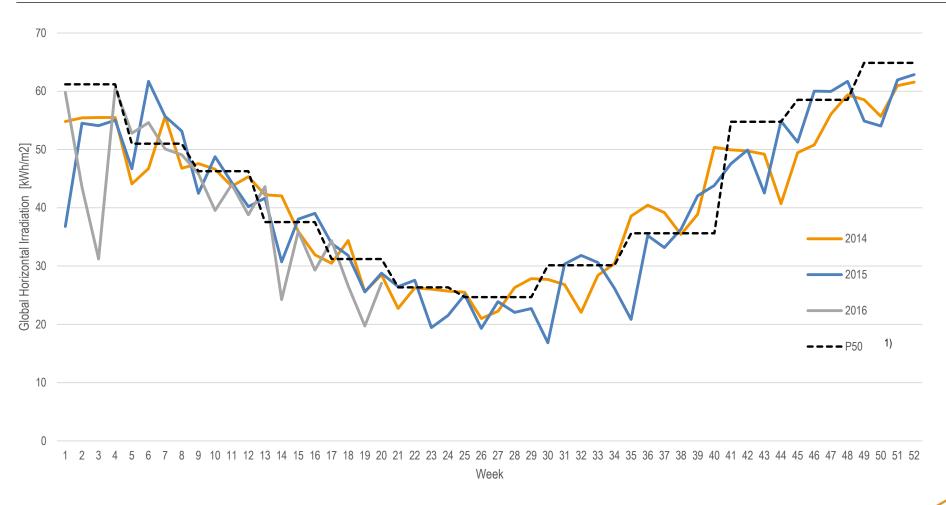
### **Drivers of production in a PV power plant**





## Weekly irradiation, Kalkbult (SA)



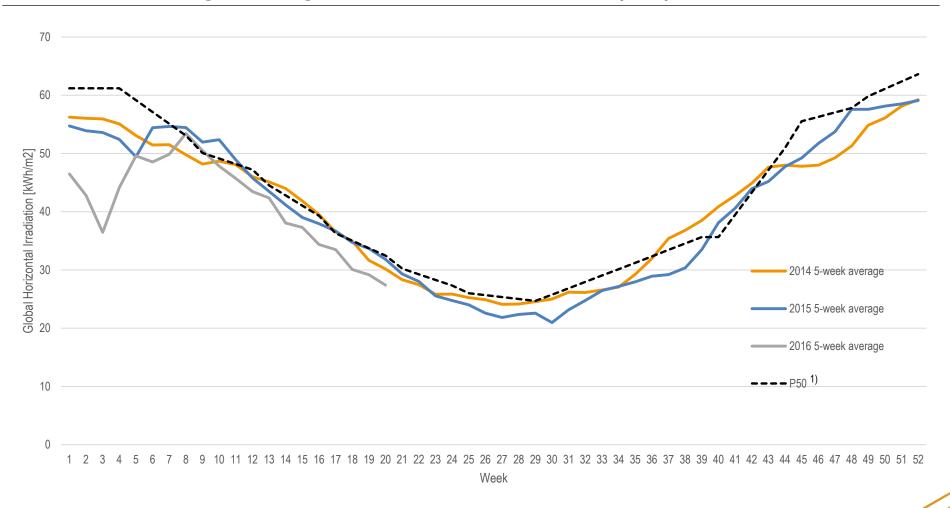


While solar irradiation generally has low interannual variability (1 Standard Deviation = +/- 5% in most of the locations relevant to SSO), it is normal to observe significant variations in shorter time periods.

<sup>1)</sup> Expected monthly irradiation as per business case assumptions at financial close

## Scatec Solar Improving our future™

## 5 weeks rolling average irradiation, Kalkbult (SA)

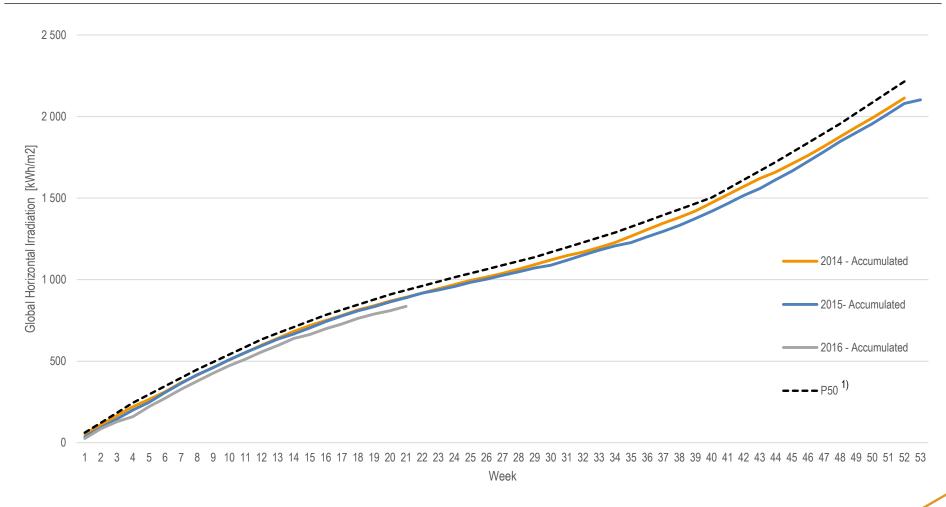


A 5 week rolling average shows significantly less volatility, but it is still normal to observe +/- 15% variance in irradiation on a monthly basis. The seasonal pattern is still very clear.

<sup>1)</sup> Expected monthly irradiation as per business case assumptions at financial close

## Annual accumulated irradiation, Kalkbult (SA)



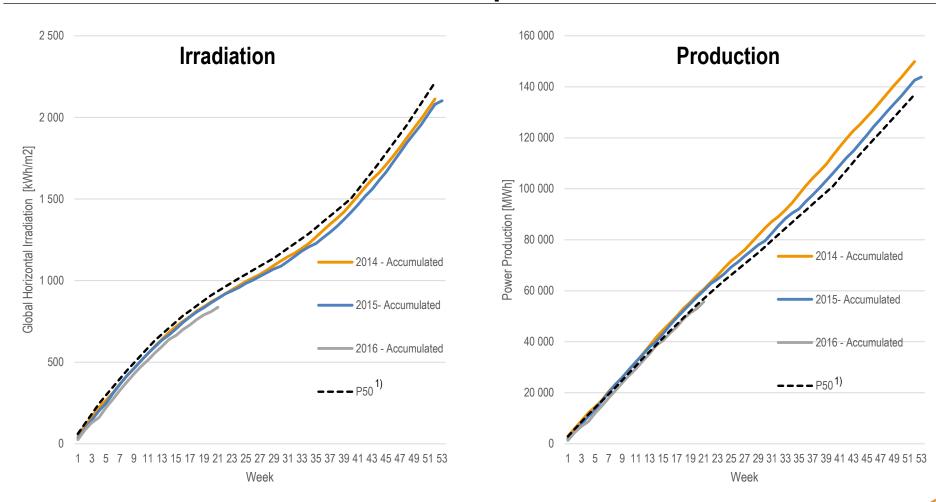


Then finally looking at irradiation on accumulated anual basis we see a quite limited year on year variability.

<sup>1)</sup> Expected monthly irradiationas per business case assumptions at financial close



### Annual accumulated irradiation vs. production



Comparing irradiation to production output, we see that the slightly lower than P50 irradiation observed so far on the plant has been more than offset by higher availability and performance than what was expected in the investment case.

<sup>1)</sup> Expected monthly irradiation/production as per business case assumptions at financial close

## A global standardised approach to O&M based on significant experience



- Global SSO SCADA system allowing for remote monitoring and operation through which central experts can provide back-up and support to plantlevel operators.
- Global SSO operating system with standard operating procedures allowing efficient set up of new plant operations where local plant teams are leveraged by central support functions.
- Culture of uncompromising approach to quality and HSE
- Capable and results driven teams resulting in high performance of controllable KPIs.



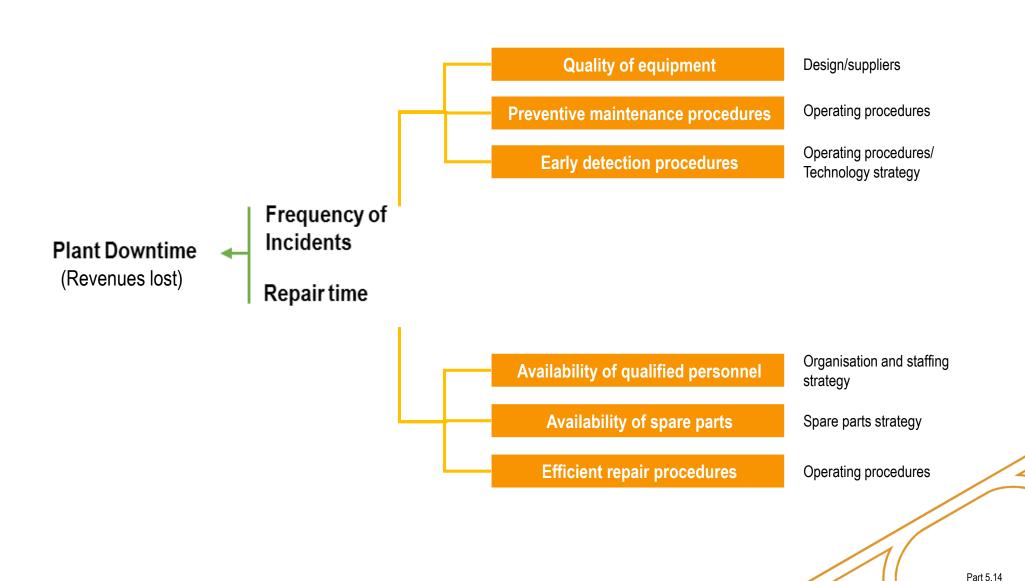






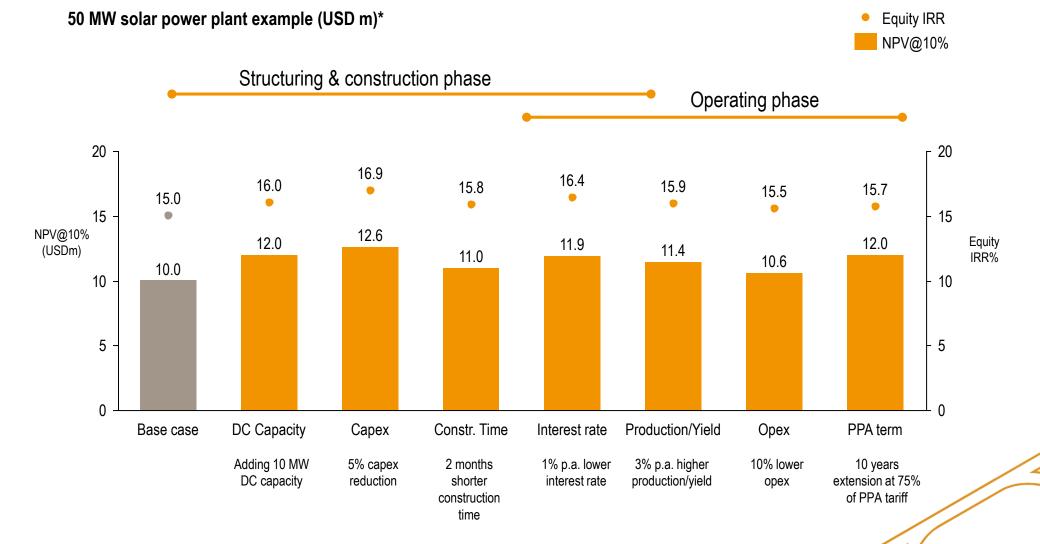
## The value of an integrated, industrial approach Example: Reducing downtime





### A number of factors influence the project returns



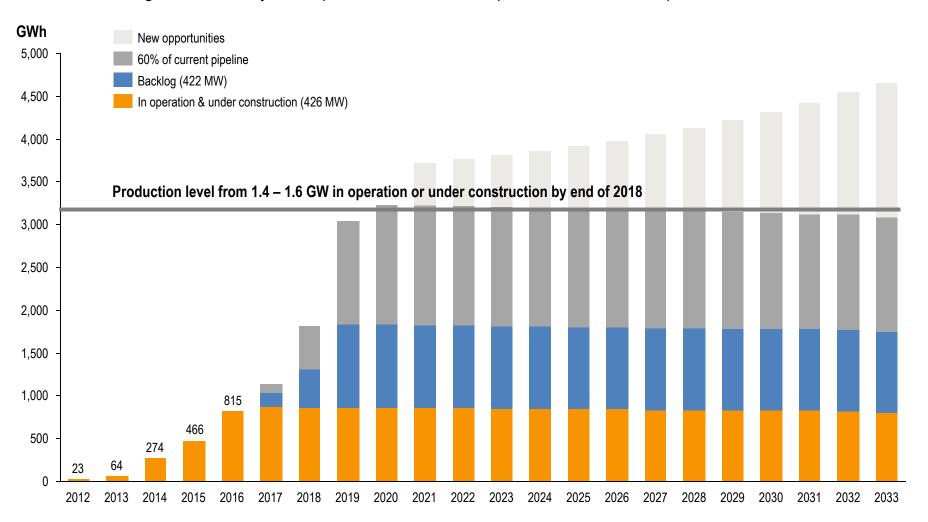


<sup>\*</sup> Based on tariff of 11 USD cent/kWh

### **Prepared for growth**



- Power production set to reach more than 3 TWh per year with current growth targets
- Contract length of 20 to 25 years potential for additional power sales after this period





6. Financials and funding



### Our approach to investments and financing



### **Key principles:**

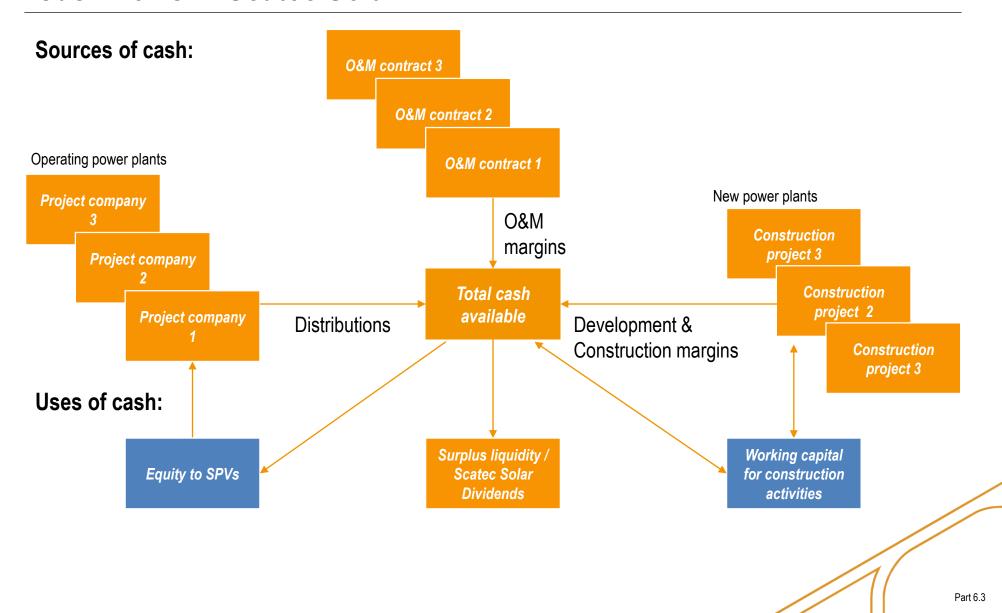
- Controlling equity positions in the projects
- Capital discipline return and margin targets
- Investments funded through non-recourse project finance
- D&C margins key contribution to equity positions
- Working capital managed through project structuring
- Moderate debt at SSO ASA level reflecting the debt capacity of long term cash flows, with head room



The 60 MW Agua Fria solar power plant in Honduras

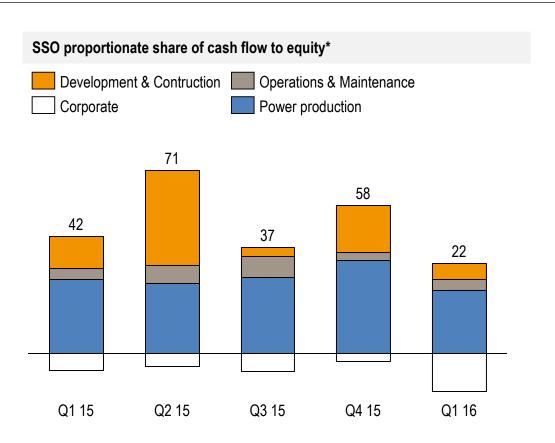
### Cash flows in Scatec Solar

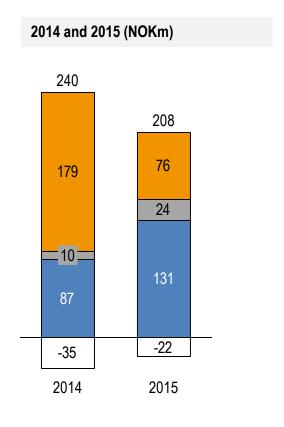




# Steadily growing cash flow from operating plants







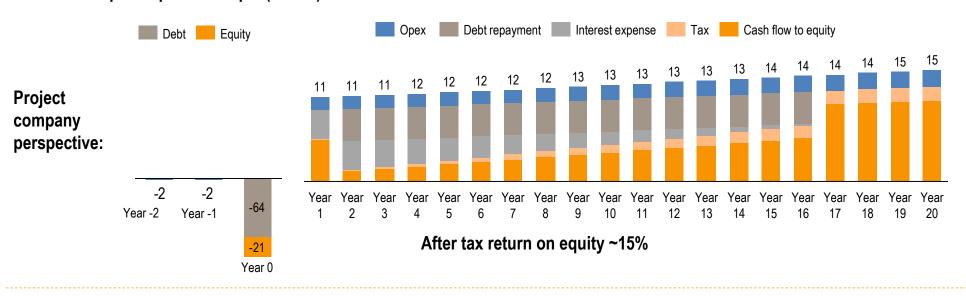
2016 cash flow to equity from PP and O&M: NOK 180-200 million

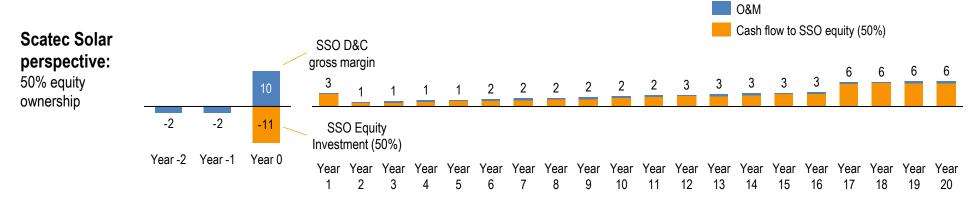
<sup>(\*)</sup> Cash flow to equity is defined as EBITDA less normalised (i.e. average over each calendar year) loan and net interest repayments, less normalised income tax payments. The definition implies changes in net working capital and investing activities are excluded from the figure.

# Structuring projects with "self-funding" capacity



#### 50 MW solar power plant example (USDm)\*





<sup>\*</sup> Based on tariff of 11 USD cent/kWh

# A self funded growth capacity of 300-400 MW per year



### Basis for self funded growth capacity

- 2016 cash flow to equity from PP and O&M of NOK 180-200 million

   growing with new operating assets
- D&C gross margins of 15% from realizing new power plants
- Project level leverage of 75% to 85%
- SSO equity positions of 50-60%
- Dividend policy; 50% of project company distributions paid to our shareholders
- Working capital managed through project structuring, trade finance and corporate overdraft (NOK 250 million)

#### Funding of 300-400 MW (NOK million)\*

Sources:				
CF from PP and O&M	~180-200			
D&C cash flow*	~420-570			
Total	~600 – 770			
Uses:				
SSO equity investments	~500-650			
Corporate cost + dividends	~120-130			

# Managing working capital



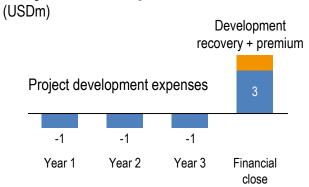
### Working capital in project development phase:

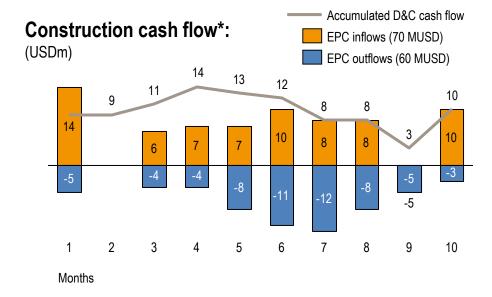
- Project development expenses typically represents 3-4% of project capex
- SSO recovers the project development expenses at financial close - normally with a premium
- Project development cost is part of the project company capex budget

### Working capital in construction phase:

- Targeting positive EPC cash flow milestone payments from project company + trade finance
- Milestone based construction financing part of SPV project finance facility
- EPC normally provides performance bonds to project company/customer

### **Project development cash flow\*:**





(\*) 50 MW solar power plant example

# Financial risk management



#### **Power price**

- Fixed for 20-25 years, normally inflation adjusted
- USD/EUR denominated or pegged tariff except in Czech and South Africa

#### Currency

#### **Project Company:**

- Project company structure debt in same currency as long term revenues
- Project company hedges any currency exposure during construction (milestone payments)

#### EPC/ SSO ASA:

- Milestone payments from project company structured to minimize currency exposure
- Long term project company distributions not hedged

#### Interest rate

- 94% of project finance debt in group is on fixed interest of minimum 10 years from COD
- Corporate bond NOK 500 million interest rate not hedged

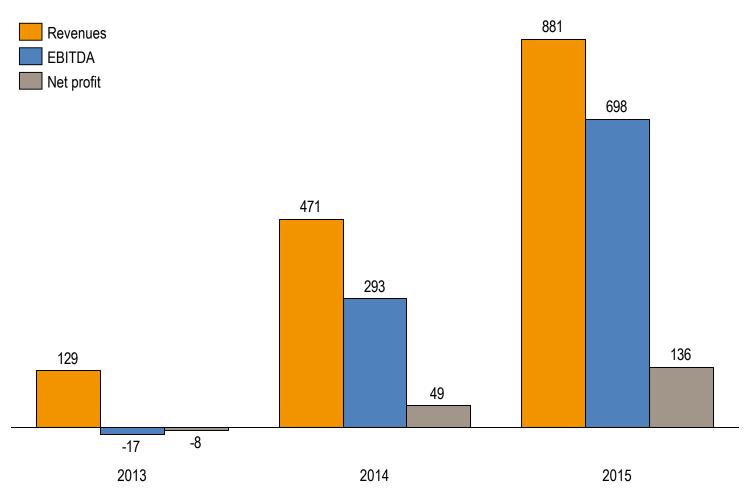
#### **Credit / counterparty**

- Power purchase agreements with state owned utilities with government guarantees backing payment obligations
- Political Risk Insurance considered in certain markets
- Utah plant solid investment grade rated off-taker

# A history of profitable growth



### **Consolidated financials, NOK million**





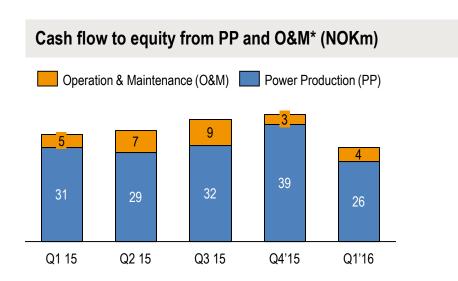


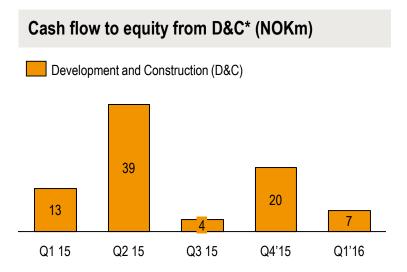
Full Year 2015 (NOK million)	Power Production	Operation & Maintenance	Development & Construction	Corporate	Eliminations	Consolidated 867.7
External revenues	863.0	4.1	0.7	-		
Internal revenues	-	51.4	1,146.6	7.5	-1,205.5	-
Net gain/(loss) from sale of project assets	-	-	14.1	-	-	14.1
Net income / (loss) from associates	-	-	-0.9	-	-	-0.9
Total revenues and other income	863.0	55.4	1,160.5	7.5	-1,205.5	881.0
Cost of sales	-	-	-989.7	-	989.7	-
Gross profit	863.0	55.4	170.8	7.5	-215.8	881.0
Operating expenses	-102.9	-24.0	-69.7	-44.8	58.8	-182.6
EBITDA	760.1	31.4	101.2	-37.3	-156.9	698.4
Depreciation, amortisation and impairment	-227.6	-2.6	-6.5	-0.5	61.6	-175.6
Operating profit (EBIT)	532.5	28.8	94.6	-37.8	-95.4	522.8

- All power plants assets are deemed to be controlled by Scatec Solar
- Power Production & consolidated financials reported on 100% basis SSO's share ~45%
- O&M, D&C and Corporate gross profit are hence considered internal to the group and hence eliminated in consolidated P&L



# Cash flow not affected by eliminations in the accounts





Full year 2015 - NOK million	Power Production	O&M	D&C	Corporate	Total	Elim.	Consolidated
Revenues	863.0	55.4	1,160.5	7.5	2,086.4	-1,205.5	881.0
EBITDA	760.1	31.4	101.2	-37.3	855.4	-156.9	698.4
Net interest & loan repayments	-421.1		-0.1	6.8	-414.4		
Total cash flow to equity*:	290.8	23.6	75.6	-22.1	367.9		
SSO share of CF to equity*:	130.6	23.6	75.6	-22.1	207.7	_	

<sup>(\*)</sup> Cash flow to equity is defined as EBITDA less normalised (i.e. average over each calendar year) loan and net interest repayments, less normalised income tax payments. The definition implies changes in net working capital and investing activities are excluded from the figure.

### Financial position

# Eliminated D&C margins affects book equity



Interest bearing

liabilities

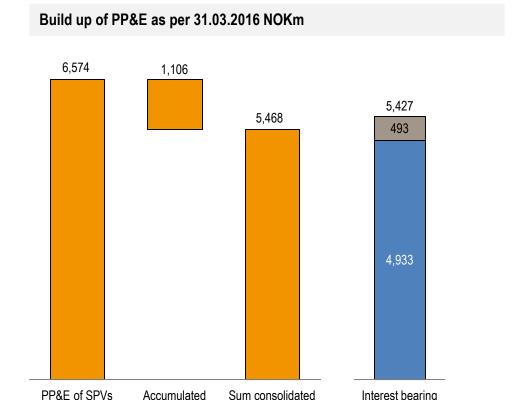
Corporate bond

Non-recourse project finance

- Margins created through Development & Construction of power plants are eliminated in consolidated financial statement
- Elimination booked against PP&E in consolidated financial statements

#### Leads to:

- A negative effect on consolidated equity short term as corresponding non-recourse finance is included at full value
- Improves consolidated net profit over time through reduced depreciation



PP&E

(in operation

and under development) D&C margin

# A solid financial position



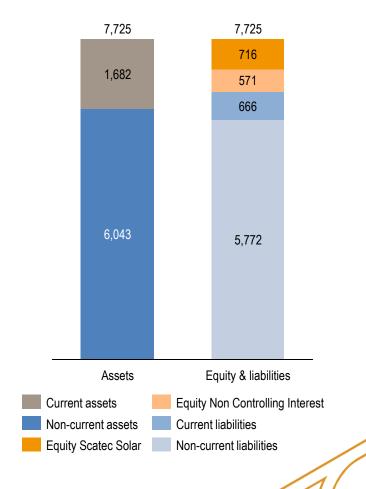
#### **Consolidated financial position:**

- Full consolidation of all project companies
- Cash position of NOK 1,217 million of which NOK 277 million free cash available outside project companies
- Total interest bearing liabilities\* of NOK 5.4 billion of which NOK 4.9 billion non-recourse project financing

#### SSO financial position – outside project companies\*\*:

- Equity of NOK 1,422 million
- Interest bearing liabilities of NOK 493 million (bond)
- Debt to capitalisation ratio of 26%

#### Financial position (NOKm) as of 31.3.2016



<sup>(\*)</sup> Total interest bearing liabilities does not include shareholder loans to project companies.

<sup>(\*\*)</sup> As per definitions in senior unsecured bond agreement

# Prepared for further growth



- Risk managed through project structuring
  - Controlling equity positions
  - Integrated business model
  - Non-recourse project finance
- "Cash flow to Scatec Solar equity" a key measure of value creation
- A solid "self funded" growth capacity
- Capital discipline return and margin targets
- Significant value potential in further optimization of current asset base





# 7. Financing solar in emerging markets

Scatec Solar Capital Markets Day – 31 May 2016 Harry Boyd-Carpenter, Senior Banker, Power and Energy Utilities



### DFIs, MDBs, IFIs...



- Public ownership
- Public mandate
- Strategically public, tactically private
- Patient capital
- Conservative on commercial and technical risks; appetite for political risks
- Deep commitment to environmental and social standards
- Mobilise and catalyse private finance
  no crowding out















## 25 years of investment



AAA-rated, multilateral development bank, founded in 1991 to promote transition to modern and well-functioning markets

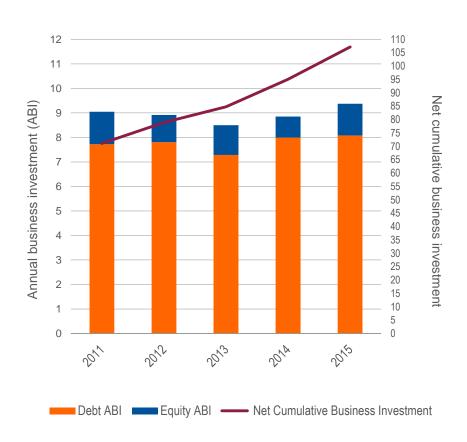
Since 1991, EBRD invested over €107 billion in over 4,400 projects across private and public sectors in its countries of operations, including:

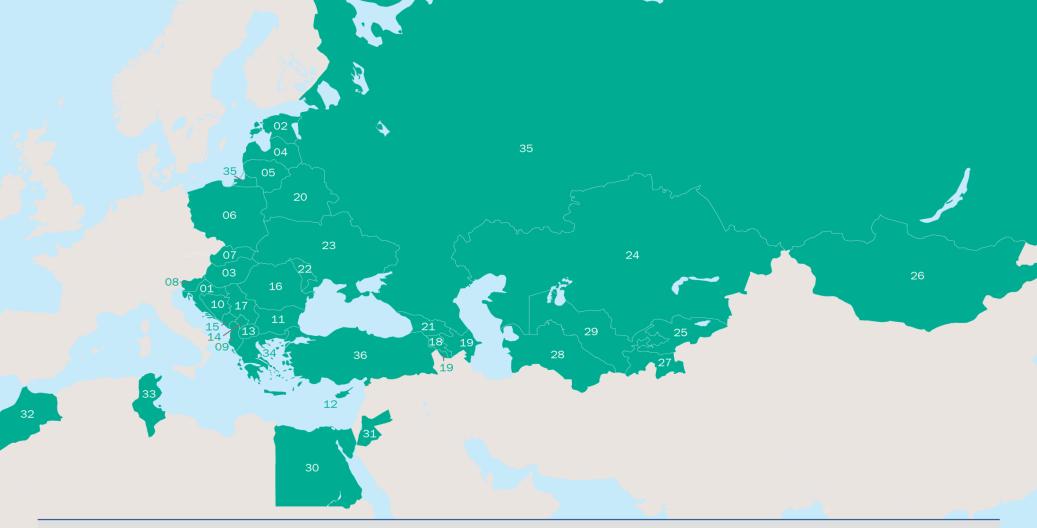
#### In 2015:

- €9.4 billion invested in 381 projects
- Private sector accounted for 78% share
- Debt 82%, Equity 14% & Guarantee 4%

67 shareholders: 65 countries (China became the most recent member in 2016) and two institution

### Net cumulative business investment €107 billion





#### WHERE WE INVEST

#### **Central Europe and** the Baltic states

- 01 Croatia
- 02 Estonia
- 03 Hungary
- 04 Latvia
- 05 Lithuania
- 06 Poland
- 07 Slovak Republic
- 08 Slovenia

#### **South-eastern Europe**

- 09 Albania
- 10 Bosnia and Herzegovina
- 11 Bulgaria
- 12 Cyprus
- 13 FYR Macedonia
- 14 Kosovo
- 15 Montenegro
- 16 Romania
- 17 Serbia

#### **Eastern Europe and** the Caucasus

- 18 Armenia
- 19 Azerbaijan
- 20 Belarus
- 21 Georgia
- 22 Moldova
- 23 Ukraine

#### **Central Asia**

- Kazakhstan
- 25 Kyrgyz Republic
- 26 Mongolia
- 27 Tajikistan
- 28 Turkmenistan
- 29 Uzbekistan

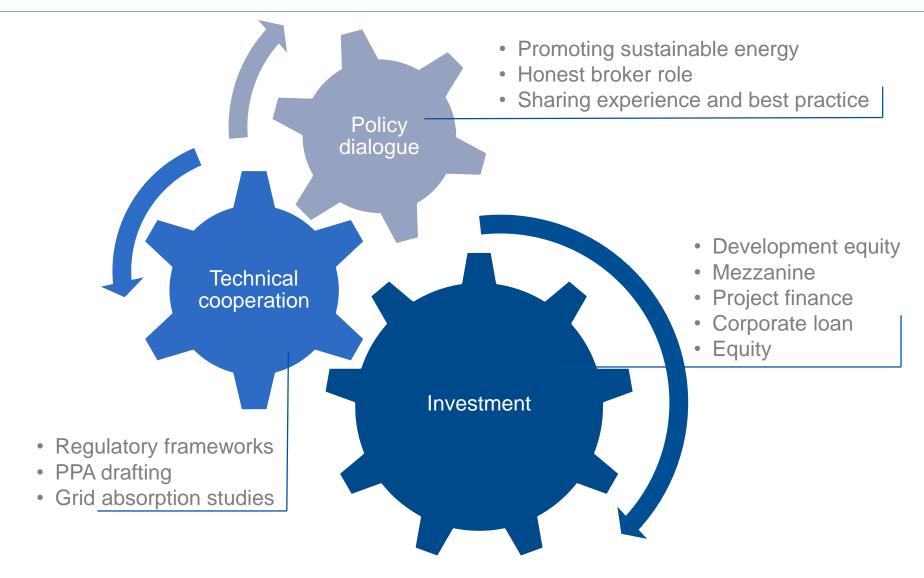
#### Southern and eastern Mediterranean

- 30 Egypt
- 31 Jordan
- 32 Morocco
- 33 Tunisia

- 34 Greece
- 35 Russia
- 36 Turkey

# Operational approach





# Bankability in emerging markets



# Why? Understand the drivers Who? • Sponsor, partners, financiers What? • Technology, location, interconnection How? Environmental and social standards; operating principles Write it all down Legislative, regulatory and contractual framework

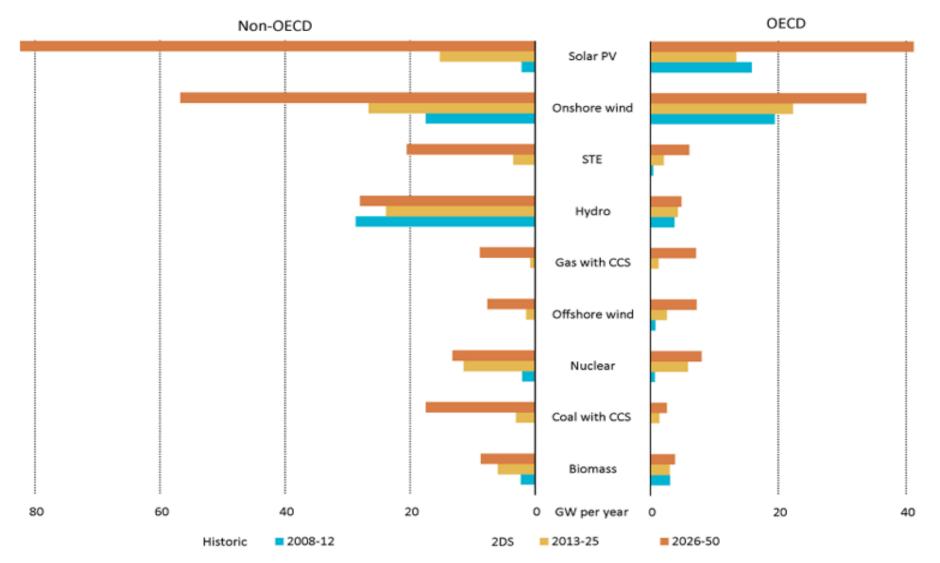
### Governments and the energy trilemma



Energy is delivered in a Energy is supplied to all that does manner not consumers at a price that allows undermine opportunities of them to meet their basic needs. future generations to enjoy the same level and quality of services by degrading Affordable natural or human environment. Energy is reliably supplied, transported and delivered on an uninterrupted basis. Secure Sustainable

# Solar in emerging markets









# Financing solar in emerging markets

Scatec Solar Capital Markets Day – 31 May 2016 Harry Boyd-Carpenter, Senior Banker, Power and Energy Utilities





# Summary



### Positive market outlook



- The global market for PV is expected to grow significantly in the years to come
- Emerging economies will continue to take advantage of lower cost renewables
- Lower oil and gas prices have limited impact on the appetite for renewables
- Market transformation opens up for new business offerings
- Scatec Solar is strengthening its position as a leading emerging market player





Thank you

#### Our values

Predictable
Driving results
Change makers
Working together

