Investing in Renewable Assets in Emerging Markets

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- Key requirements for financing projects
- Policy and regulatory risks

Eversheds Sutherland Clean Energy and Sustainability – delivering value



Recognised by our Sector

Eversheds winner of the Solar Project Finance / Advisors 2015 Award



Eversheds Hong Kong wins award Named International Law Firm by China Business Law Journal





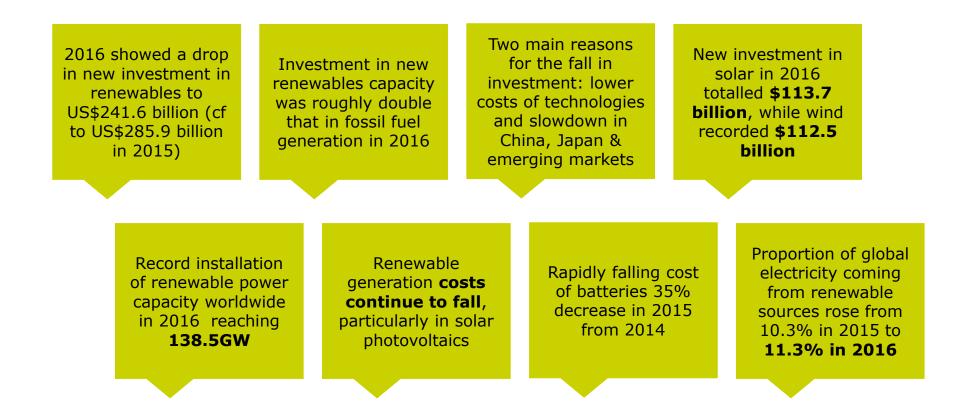


Eversheds most active legal advisors to clean energy project and asset finance deals in 2014 Clean Energy Pipeline Global League Tables 2015

جمعية الشرق الاوسط لصناعات الطاقة الشمسية Middle East Solar Industry Association Empowering Solar across the Middle East Middle East Law Firm of the Year 2014 and Woman of the Year 2014

More Lawyers named in the Top 100 Legal Power List 2016 – A Word About Wind

Lower investments in renewable energy and lower costs in 2016



Source: Frankfurt School-UNEP Centre/BNEF 2016 & 2017. Global Trends in Renewable Energy Investment 2016 & 2017 http://www.fs-unep-centre.org (Frankfurt am Main)

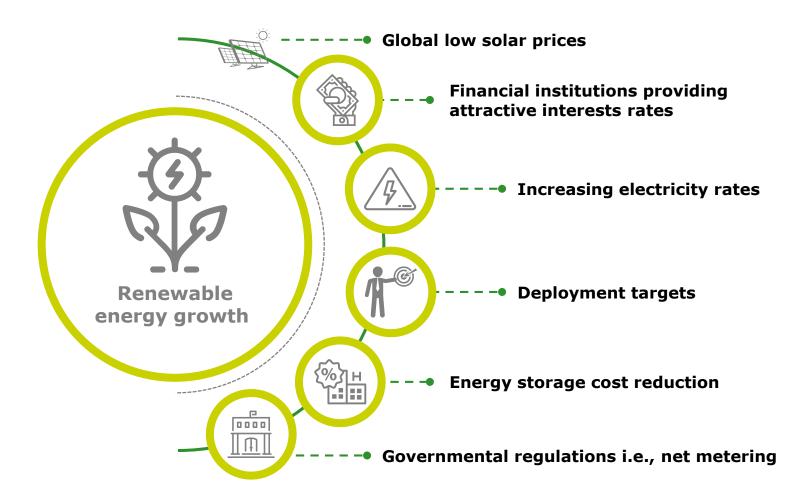
MENA scored lowest PV tariff rate globally

Record-low PV tariffs in the MENA region

MWe capacity	Awarded tariff	Developer/s	Country
800	US\$29.9/MWh	Masdar-led Consortium	UAE (Dubai)
1,177	US\$24.2/MWh (JinkoSolar & Marubeni)	Unidentified Asian consortium	UAE (Abu Dhabi)
260	US\$56.1/MWh	ACWA Power	UAE (Dubai)
60.3	US\$61.3/MWh	ACWA Power	Jordan
	800 1,177 260	Capacity800US\$29.9/MWh1,177US\$24.2/MWh (JinkoSolar & Marubeni)260US\$56.1/MWh	CapacityDescription800US\$29.9/MWhMasdar-led Consortium1,177US\$24.2/MWh (JinkoSolar & Marubeni)Unidentified Asian consortium260US\$56.1/MWhACWA Power

Source: Research by new energy update (MESIA 2017)

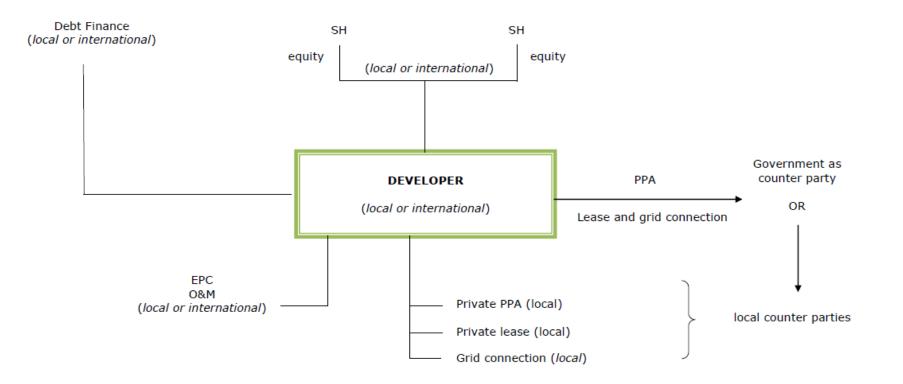
Driving factors for renewable energy growth in GCC



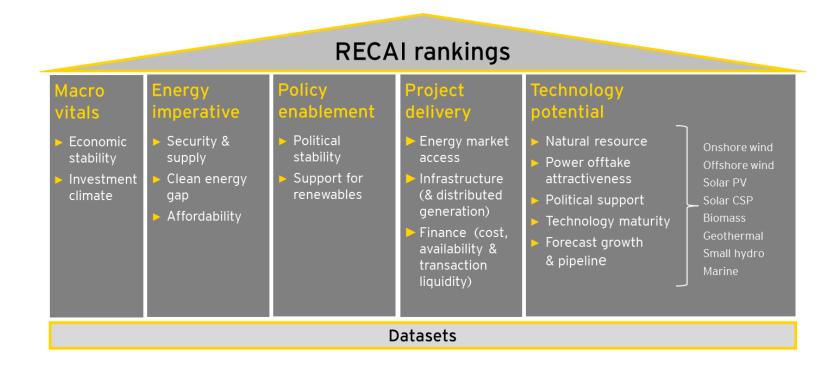
Typical Contracts & Counterparties

RENEWABLE ENERGY PROJECT

CONTRACTS & COUNTER PARTIES

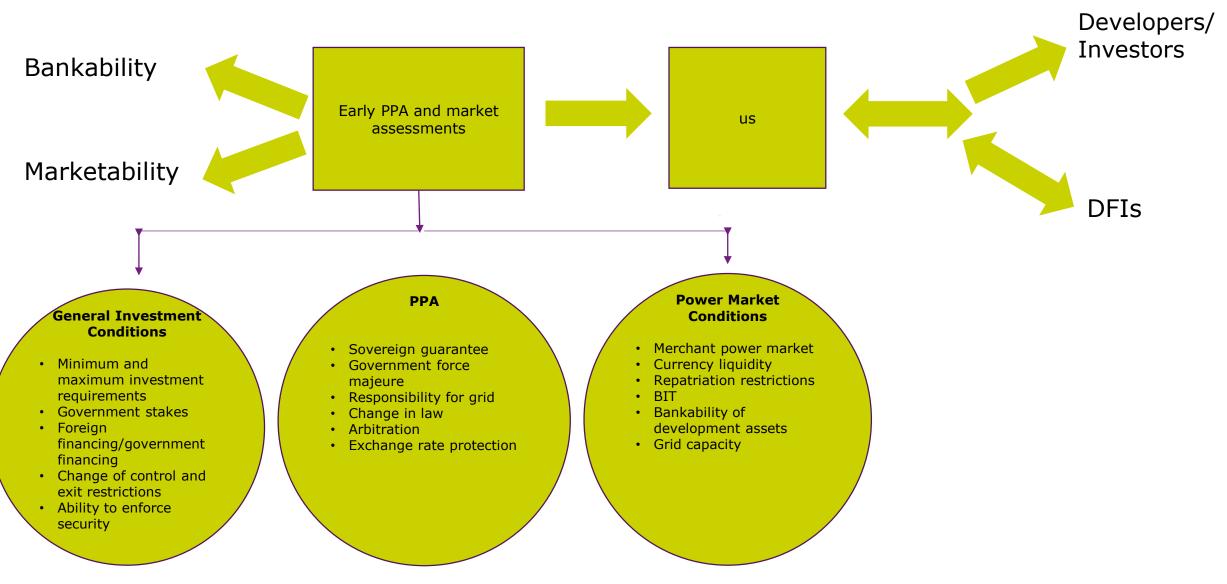


What makes a market attractive?



Creating the wave

Early Market Assessment



Risk Allocation - Pricing Impact

- Adequate identification, evaluation, allocation and management of project risks lies at the heart of effective design
- Risks should be borne by the party that is best able to manage them
 - Rationale: That party can bear the risks at the least cost
- How is the risk transferred?
 - Performance risk converted into a payment obligation under a contract;
 - Payment obligation may be structured as a financial incentive or penalty related to level of performance.
- What happens if risk is allocated to a party who is not able to manage the risk effectively?
 - Price of risk transfer increases; and
 - Risk may not be capable of being effectively managed
 - Risks not mitigated are borne by the consumer higher tariffs
- Residual risks, such as political force majeure and regulatory risks, can be mitigated through guarantees and insurance

Key Risks and Mitigating Instruments

Risk	Туре	Mitigation
Construction	- Cost overruns - Delays	 Contractual arrangements (used fixed price turnkey contracts) Impose warranties, liquidated damages Penalties and incentives Use experienced contractors Contingency funds and lines of credit Private insurance Sponsor guarantees
Operation	 Revenue forecasts Revenue build-up Operating costs Management failure Service quality 	 Obtain long-term contracts (supply, off-take) Use experience operators Performance guarantees Loan covenants and DSCR triggers Contingency reserves Insurance Risk compensation devices
Market / Demand	- Demand	 Long term contracts Control over disbursements based on achieved/contracted revenues Hedging/"contracts for differences"

Key Risks and Mitigating Instruments

Risk	Туре	Mitigation
Interest, Inflation, FX	- Fluctuations	 Hedging Match forex exposures Use fixed interest rates Pass through in contracts Insurance/capital market instruments
Financial	 Debt/equity ratio Return on capital Risk reward ratio Debt service cover Taxation 	 Do not allow excessive leverage Do not allow excessive Equity IRR Dividend constraints Impose acceptable coverage ratios Impose debt service triggers Lenders syndicate their loan Escrow accounts / Reserve accounts
Political	 Regime stability Political intervention Change in Law Breach of Contract Expropriation Foreign exchange 	 Clear regulatory regime Political Risk Insurance (e.g. MIGA) Government/local shareholder participation Hard currency contracts Neutral dispute resolution mechanism

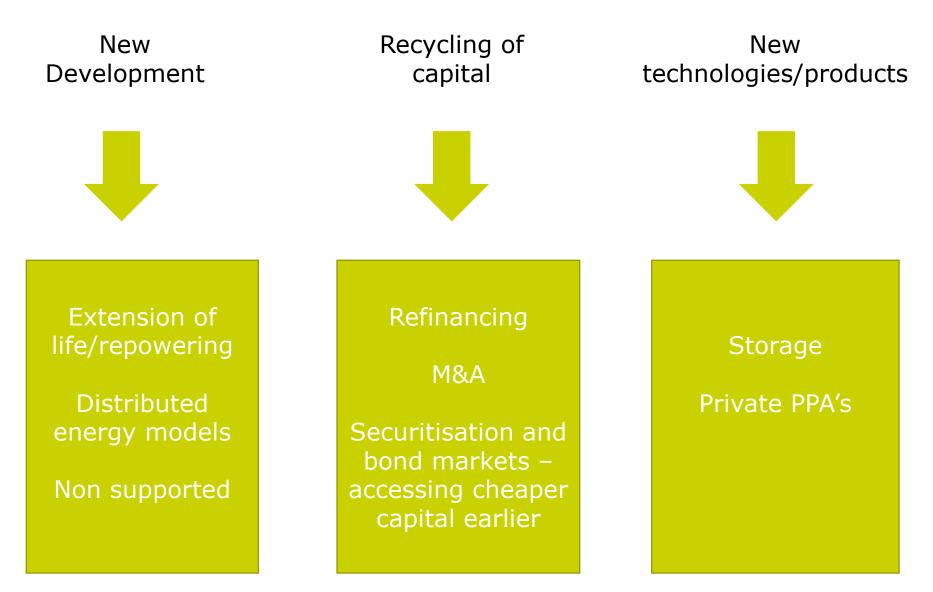
Key Risks and Mitigating Instruments

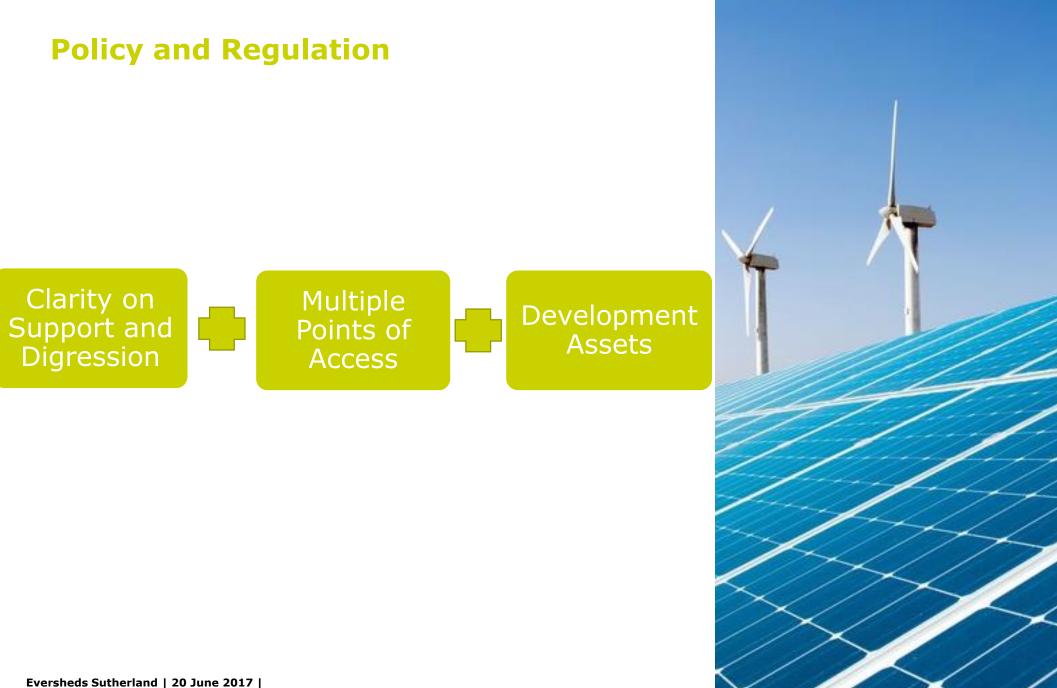
Risk	Туре	Mitigation
Legal / Regulatory	-Change in Law, pricing formulas, right of way, currency convertibility & transfers -Rule of law / judicial system/ access to justice & arbitration	 Use experienced lawyers Clear, simple documents and laws Political risk insurance against breach of contract Strong regulatory framework International arbitration
Technical	- Performance - Safety	 Obtain long-term warranties Use proven technologies
Supplies	 Quality, quantity and price of raw materials/services 	 Minimize mismatch between supply and purchase contracts, either by contract or by hedging
Environmental & Social	- Pollution, resettlement, biodiversity	 Public consultation and approval Environmental Audit
Natural disasters & operational accidents	 Typhoon, earthquake, etc. Injuries 	- Insurance

Key Requirements for Commercial Financing of Projects

Bankability	 Key prerequisite for any commercial financing Key requirements for bankability vary across countries and sectors Could benchmark off terms from more developed/mature markets to markets trying to do their first RE project
Affordability	 Still a major issue: projects are over-designed and over-capacity for what users and/or governments can afford Sources of revenue often unclear – demand may not be sufficient to support capacity/design Mechanisms for adjustment of tariffs/payments not predictable or tested; subject to political/social pressures
Government Support	 Government Guarantee - to address issues relating to counterparty risks (creditworthiness and performance) Viability Gap Funding – upfront Government contribution to buy down construction cost and help ensure reasonable return Availability Payments/Revenue or Demand Guarantee – address demand and liquidity issues

Maturer markets – how to access new growth





Clarity on Support and Digression Case Study



Questions?



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