

Investing in Urban Sustainability The Role of Clean, Modern Energy Technologies Alf-Henryk Wulf CEO, GE Power AG

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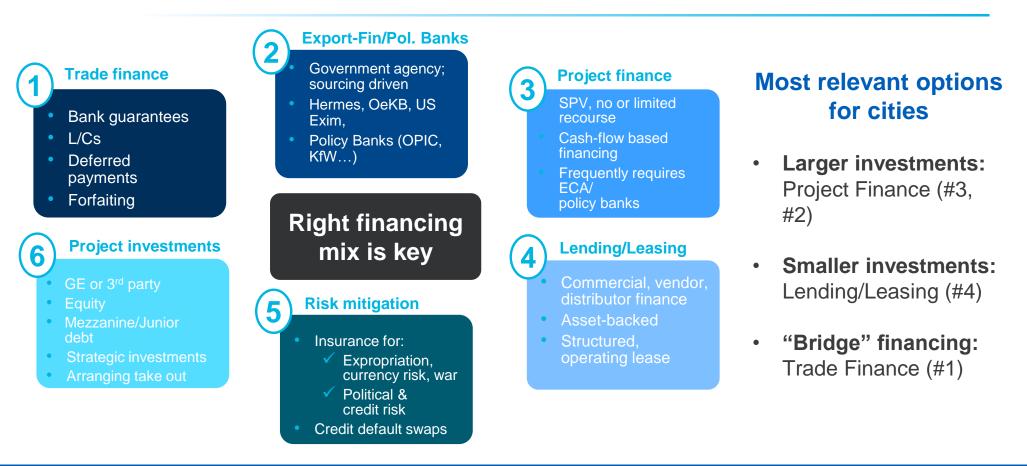
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Cities in the 21st Century

- Rising urban populations
- Engines of economic growth
- Increased demand for energy
- High (and growing) CO2 emissions
- Perfect environment for energy and climate innovation

GE's Financial Solutions

Financial advice – every case is different!



3 key factors: regulatory environment, technology and market trends



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Special experience in renewables

Cumulative global investments since 2004

73% Wind	19% Solar	Products Structured project equity
191 projects	61 projects	Development capital
~16 GW \$9B cumulative investments	~2 GW \$3B cumulative investments	Project debt
		Capital markets services
		PPA services
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Case Study: Merkur Offshore Wind

GE EFS invested in + led to financial close 396MW offshore WF in Germany

Transaction

- 396MW offshore WF in German North Sea
- ~US\$1.8bn total project costs
- <u>GE EFS</u> purchased share of project in early 2015 to become <u>co-</u> <u>sponsor</u> alongside DEME.
- GE EFS and DEME <u>conducted equity process</u> to secure ~\$400m equity investment from Partners Group and Infrared Capital Partners.
- Project raised ~US\$1.3bn of non recourse debt and reached financial close in July 2016.

Result

• First commercial scale deployment of 6MW GE Haliade turbine, and first offshore wind project in Germany to utilize multi-contract structure.

Benefits to developer

- Financial close; maximization of project value
- Comprehensive GE offering including equity investment + 3rd party debt and equity raising/structuring expertise.



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Case Study: Ararat Wind

27% STAKE IN 240-MW ARARAT WIND FARM

OPPORTUNITY

- 240-MW Ararat Wind Farm, \$450 million project
- 3rd-largest wind farm in Australia
- Shareholders: Partners Group, RES, OPTrust, and GE
- Help GE grow its presence in the region

RESULT

- Uses 75 x GE 3.2-103 wind turbines
- Shows value of GE Store and GE's ability to collaborate to deliver important energy infrastructure, financing and policy

The Ararat wind farm will be capable of producing sufficient renewable energy to meet the electricity needs of 123,000 homes a year in Victoria.

support

Introducing GE Current Our approach to Smart Cities

Sensor-enabled Technology

flexible, customizable tech solutions

Software & Services dashboards, analytics & apps for continually improved performance

Solution Financing including PPA's

GE Capabilities to design, build, manage tailored solutions to meet your needs



LED &

Intelligent

Environment

S

Onsite Gas

Solar





Load Mgmt.



Imagination at work