Совершенствуя бизнес, улучшаем мир

Energy consulting as an instrument for shaping energy mix

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Key messages to remember

- A series of *disruptive factors* is driving transformation in the energy sector creating whole new energy systems
- **2** *The pace of change will be defined by three "tipping points"* reflecting the advancement of nonutility renewables, battery storage and EVs
- 3 More customers demand not just a cheap energy but a *comprehensive energy solution*, which fits well into connected future energy landscape
- 4 To succeed in the new paradigm vendors should *shift away from selling products to providing energy system solutions*. Leading OEMs as well as the *players from adjacent industries* are moving full speed to the *service based business model* as well
- **Energy consulting** is the industry new competitive response to the demands of the future, which requires **building critical competencies** and **mastering partnerships** with players from the other industries

A series of disruptive factors is driving transformation in the energy sector



The future of power & utilities is emerging rapidly and will materialize through three "tipping points"



* Non-utility: households and business customers producing electricity **ICE: internal combustion engine

The pace of change will be defined by the advancement of nonutility renewables, battery storage and EVs



More customers demand not just cheap energy but an energy solution, which fits into an uncertain future energy landscape

Future energy landscape





To succeed in the new paradigm vendors cannot afford just selling products but are expected to provide value focused solutions

Rethinking the value flow matrix From Un-connected World...



Traditional mindset - In our business we sell...

Modern mindset - We help our clients succeed

1) Source: Victor Cho, March 2012, Global connectivity and the new business world of connected value flows, EY analysis

Leading OEMs¹⁾ but also players from adjacent industries are moving full speed to offering system solutions

Case example from Water Utilities

Traditional business model

- Business: Water and energy supply, waste management
- Products: Operator of water and energy facilities
- Geography: Already a multinational player



New evolving business model (since 2000s)

- Business: Multi-utility integrated system solution provider. Alliances with digital system providers for smart monitoring and operations
- Products:
- For B2G EPCM based water supply solutions (incl. equipment), water system management, consulting on complex matters
- For B2B new multi-utility businesses
- For B2C online customer interaction
- Geography: 48 countries



Energy consulting is the integrating element in the long term energy solution



The clients will be able to translate the future vision of the energy system into demand for energy products and delivery business model

Energy consulting offering

- Demographic and economic drivers
- **>** Future trends and disruptors

- Socio-economic impact for the country
- Socio-economic impact for other stakeholders: Utility companies, potential partners, etc.

- In house
- Partnerships with local utility players
- Partnerships with global non-utility players: (digital) service providers, engineering and consulting firms

