SoftBank Group's Renewable Energy Business

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Expansion of renewable energy has started to fundamentally redefine every industry.
SoftBank’s Clean & Renewable Energy Projects

Established RE business base in Japan, India and Mongolia

- **Great Earthquake**
  - March 11th, 2011

- **SB Energy**
  - RE developer in Japan
  - Oct, 2011

- **Bloomenergy**
  - Fuel cell business
  - July, 2013

- **ALTAEROS energies**
  - High-altitude wind gen.
  - Dec, 2014

- **SB Energy**
  - RE developer in Saudi Arabia
  - Dec, 2017

- **Clean Energy Asia**
  - RE developer in Mongolia (Gobi Green Energy)
  - Jul, 2011
  - Japan Renewable Energy Council
  - Aug, 2011
  - Renewable Energy Institute
  - Oct, 2012

- **SB Power**
  - Power retail Business in Japan
  - Dec, 2013

- **Clean Energy Asia**
  - RE developer in India
  - Dec, 2015

- **Clean Energy Asia**
  - PV developer in India
SB Energy (Japan)

Total 650 MW
(42 sites)
As of Feb 16, 2018

One of top RE developers in Japan

- Solar
- Wind
Power retail business (Japan)

Service in: 1st April 2016
(Service area)
Tohoku EPCO, Chubu EPCO,
Kansai EPCO, Chugoku EPCO,
Shikoku EPCO (Gradual expansion)

Renewable energy menu

Service in: February 2017
(Service area)
Hokkaido EPCO, Tohoku EPCO,
Tokyo EPCO, Chubu EPCO,
Kansai EPCO, Chugoku EPCO,
Shikoku EPCO, Kyushu EPCO
Bloom Energy Japan (Fuel Cell)
(SoftBank group: 50%, Bloom Energy: 50%)

New System of Distributed Power Generation

Will lead to...
✓ CO2 Reduction
✓ Disaster Resilience

Provide clean, reliable and affordable energy to Japan
Gobi Green Energy (Mongolia)

(Bulgan Site: 83,000ha, Khurmen Site: 56,000ha, Tsogt Tsetsii Site: 7,000ha, Gobi Green Energy: 326,000ha (3,260km²), Oyu Tolgoi Copper Mine)

Land secured for development in the Gobi Desert

Total 326,000ha (3,260km²) (13GW+ wind potential)
Wind Farm Development

• **50MW completed** @ Tsetsii

• **2GW project**
  (Feasibility study)
Solar PV Projects (India)

Our Projects

1. **350 MW** (COD on March 29, 2017)
   - The world's 7th largest solar power plant
   - Tariff is 7.1 cent/kWh (INR 4.63)

2. **600 MW**
   - Tariffs:
     - 3.8 cent/kWh (300MW, INR 2.45)
     - 4.1 cent/kWh (100MW, INR 2.63)
     - 3.9 cent/kWh (200MW, INR 2.48)

Solar is cheaper than new coal-fired plants in India

Exchange rate: 1 INR = 0.01566 USD (as of Jan 28, 2018)
Contributing to the development of solar energy in Saudi Arabia
Will Japan be left behind the current global trends?
Creating the new era always involves:

Energy + Communication + Transportation

1st Industrial revolution
- Coal
- Printing press
- Steam locomotive

2nd Industrial revolution
- Oil
- Telephone
- Automobile

Ongoing revolution
- Renewables
- PC & Mobile Internet
- EV & Ride-sharing
SoftBank group’s global ride-sharing portfolio

- Uber (USA): 15M rides / day
- Ola (India): 1.5M rides / day
- DiDi (China): 25M rides / day
- Grab (ASEAN): 3.5M rides / day
SoftBank’s Core Business Strategy

SoftBank Group aim to be Platformer & Service Provider in "Golden Triangle"

**Bits**
Information Revolution, IoT

**Watts**
Energy Revolution, Clean & Renewable Energy, GoT

**Mobility**
Optimization of Transport (people, goods, money and information)

The 5Ws & 1H
(When, Where, Who, What, Why, and How)