Smart Energy Belt towards de-carbonization of ASIA

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2016.09.09
Greeting
The beginning of autumn
First mission, **Electricity saving campaign**
ZEITGEIST

[時代精神]
Renewable Energy

- Mongolia
- United States
- Korea
- Japan

Solar in Japan
- April, 2016

Mongolia
- July, 2016

Solar in USA
- August, 2016
Gobi, Clean Energy Valley
Energy efficiency

Generated $\quad$ Loss = $\$\text{ Money}$

LOST

SOLD
Energy efficiency
Energy efficiency

Loss Rate(%) (Statistics of Electric Power in Korea, 2016)

- 29.35% in 1961
- 7.84% in 1970
- 6.69% in 1980
- 6.08% in 1990
- 3.60% in 2015

Archived a transmission and distribution loss rate of 3.60%.
Superconductivity
Carbon Capture & Storage

CO₂ capture

CO₂ transport

CO₂ storage

CO₂ Membrane Module

(Permeate side)

(Residue side)

[Flue gas]

[N₂, CO, etc]
Smart City & Carbon Free Island
Supergrid, Smart Energy Belt
Shared Value in Asia

Food
Rice

Civilization
Characters

Transportation
Short Sea

米 文字 航海
Rice, **Source of energy**
The great wall of China with rice
Sushi with rice
Short Sea - Energy Transportation
Asian Interconnection with simultaneity

China ↔ Korea ↔ Japan