



A Smart Energy Creator

**June 22nd(Wed),
2022**



■ In business for 123 years since 1898

1900~1980s

1900s

2000~2010s

2010s~



1898



Foundation of Hansung Electric Co., the original entity of KEPCO

1982



Integration of utilities into Korea Electric Power Corp. (KEPCO)

1994



Listing of KEPCO shares on the New York Stock Exchange

2001



Spin off of the business into six power generation subsidiaries

2014



Relocation of the headquarters to Naju-si, Jeollanamdo

Dominant Player in Korea

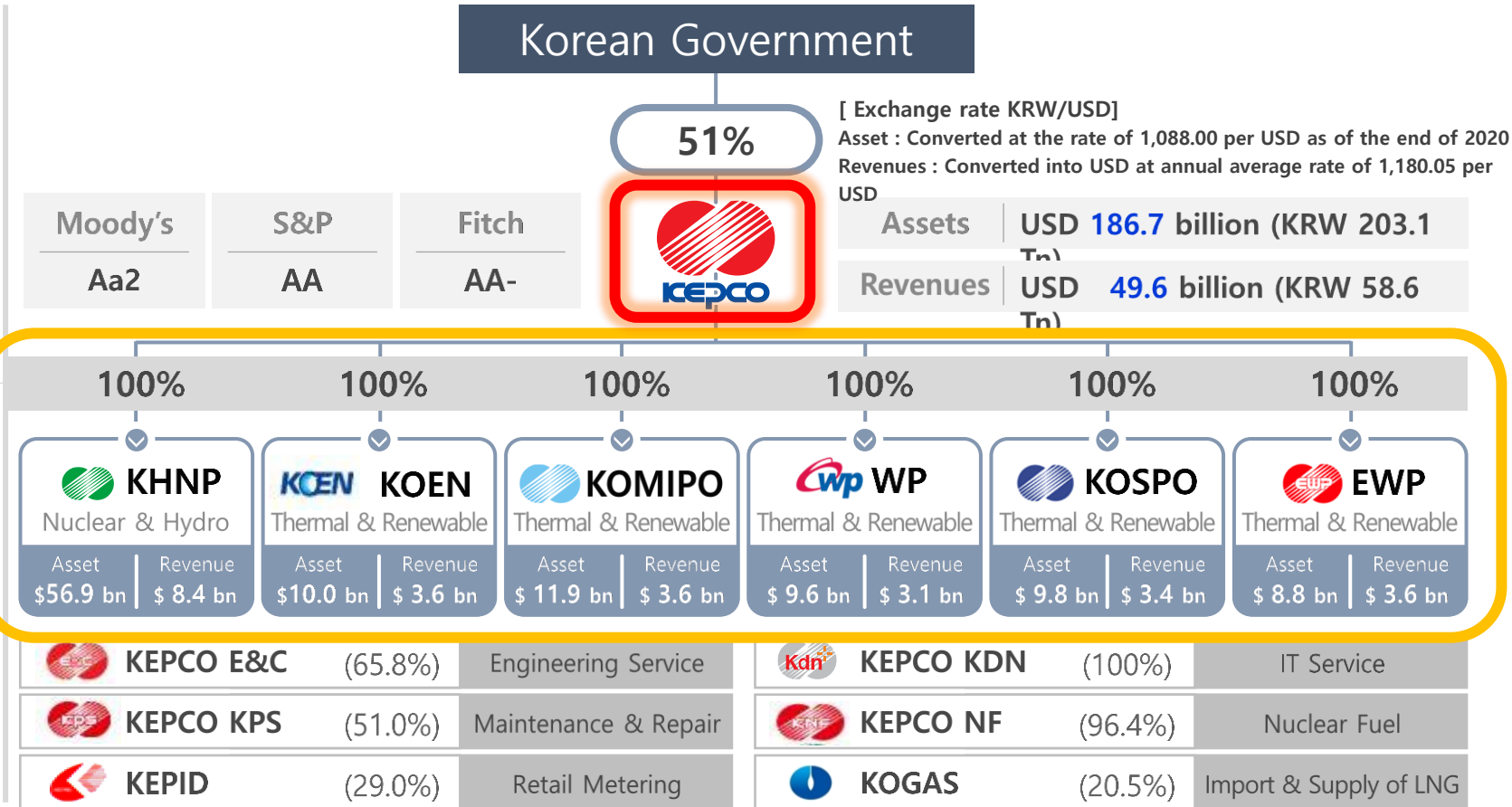
Transmission & Distribution

- **100%** market share in Korea

Generation

- **61.5%** of total capacity in Korea

Others⁽¹⁾



■ Share of capacity for 2021 : **61.5% (82.5GW)** by 6 GENCOS, and 38.5% (51.6GW) by IPPs and MPPs ⁽²⁾

Share of Electric Trading Volume for 2021 : **70.8% (380,216GWh)** by 6 GENCOS, and 29.2% (156,798GWh) by IPPs and MPPs

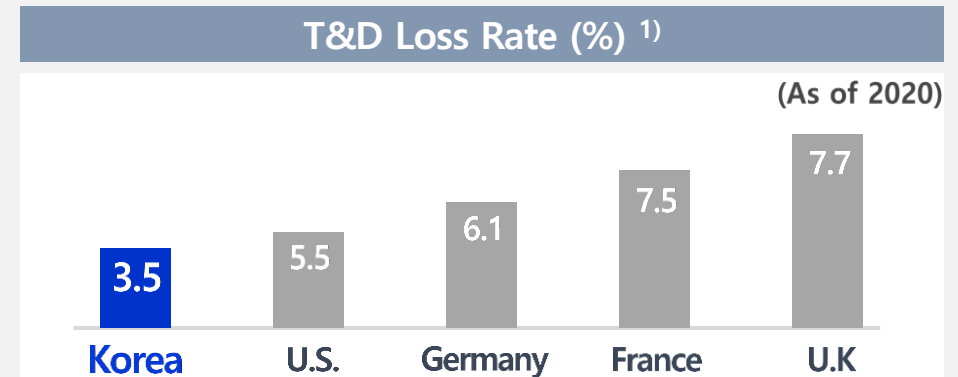
MPPs

Others include major subsidiaries and affiliates of KEPCO.

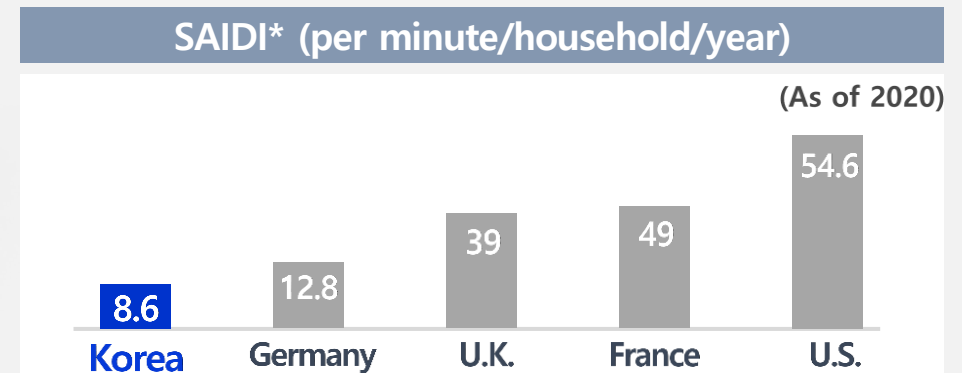
※ Source : (1) 2021 KEPCO Sustainability Report

(2) The Monthly Report on Major Electric Power Statistics, Vol.518, December 2021, EPSIS (Electric Power Statistics Information System)

World's Lowest T&D Loss Rate



World-class Power Outage Performance per Household



* SAIDI : System Average Interruption Duration Index

World-class normal voltage holding rate of 99.99%

※ Source : (1) The Statistics of Electric Power In Korea, Vol.90, May 2021

New Business

EVC



- Electric Vehicle
 - 11,767 EVs registered in Korea
- EV Charging Infrastructure
 - 5,224 high speed chargers
 - 8,592 low speed chargers

K-SEM



- KEPCO Smart Energy Management
 - Installed in 120 buildings

Micro Grid



- Gapa Island in 2011
- Gasa Island in 2014

Smart-Grid



- AMI-based Services
 - As of 2019, installed in about 7 mil. households (30.4%)
 - 23 mil. households by 2020 (100%)

FR-ESS



- Frequency Regulation Energy Storage System
 - Installed in 13 Substations Nationwide
 - Installed capacity : 370 MW

Renewable



- In Process (4 Projects, 273MW)
 - Offshore Wind Farm (2), PV (2)

Decarbonization

- FR-ESS
- EVC
- Renewable Energy

Decentralization

- K-SEM
- Micro Grid
- Smart Grid

Digitization

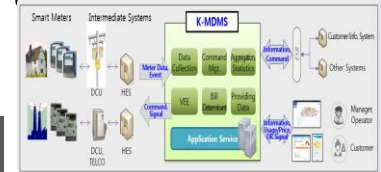
- xGrid SCADA
- MDMS
- GIS

xGrids



- KEPCO's Next Generation SCADA
 - Installed in 800 substations
 - Monitor & Control

MDM



- Meter Data Management System
 - Comprehensive management solution for 23 mil. households

GIS



- NDIS in KEPCO
 - Installed in 264 Regional Offices
- GeoPOMS for Overseas Business
 - 3 Types for web, mobile & desktop

Grid Business



6 Grid Projects

Asia Tajikistan, Myanmar, Bangladesh(2)

Middle East UAE

Africa Botswana

Solution Business



18 Solution Projects

Asia Bangladesh(2), Myanmar(4), Malaysia, Cambodia

America Ecuador, Barbados, Honduras, Dominica(3), Jamaica

Africa Tanzania, Mozambique, Ethiopia

Thank you

