



GOVERNMENT OF MONGOLIA
MINISTRY OF ENERGY

JICA KNOWLEDGE CO-CREATION PROGRAM
“ENERGY POLICY”



COUNTRY REPORT OF MONGOLIA

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INTRODUCTION

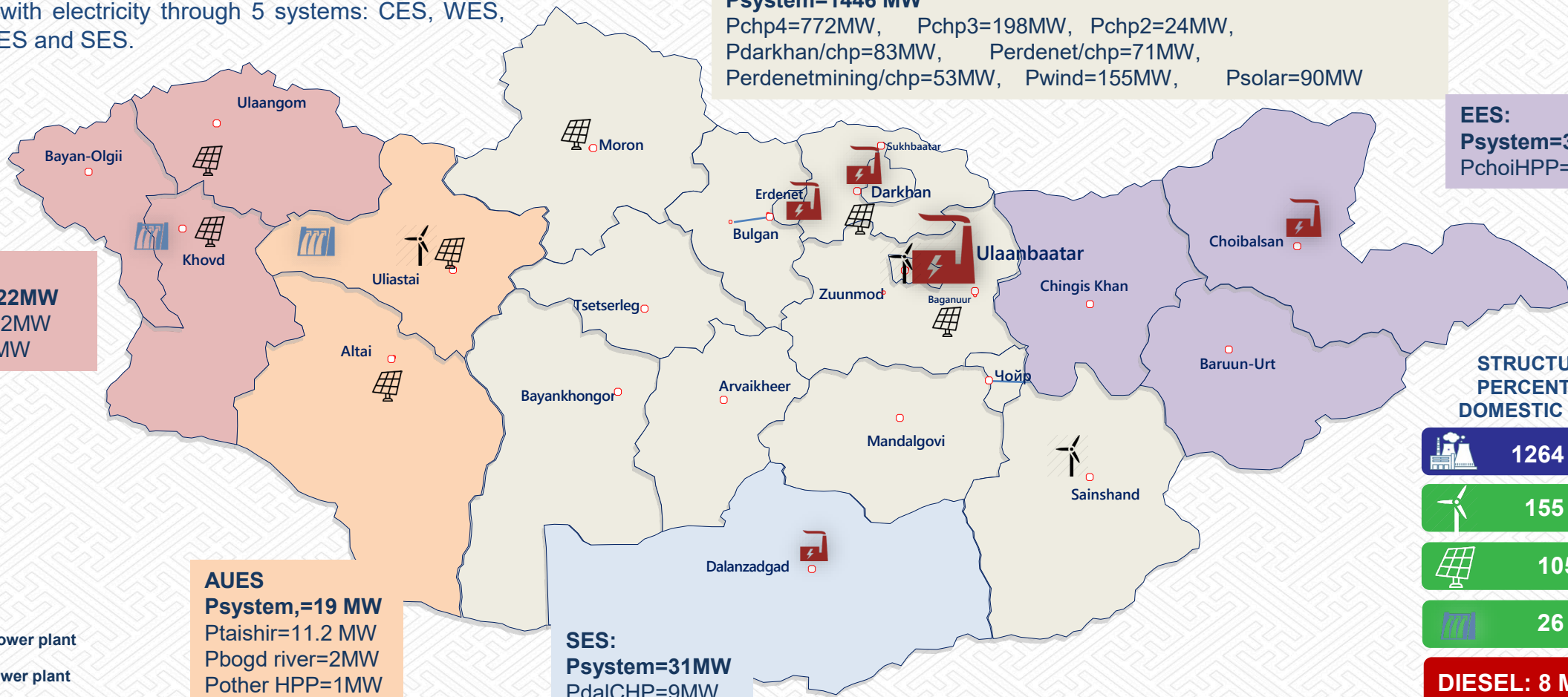
- Territory: 1.564 million km²
- Population: 3.4 million
- Capital city: Ulan Bator
- GDP- 15.720 billion usd (2022)
- GDP per capita - 4.863 usd (2022)
- Inflation- 15.5%
- Min. temp: -33°C (-50°C)
- Max. temp: +23°C (+35.8°C)
- Official language: Mongolian





5 ENERGY SYSTEMS IN MONGOLIA

In Mongolia, 330 soums, towns and capital cities are supplied with electricity through 5 systems: CES, WES, AUES, EES and SES.



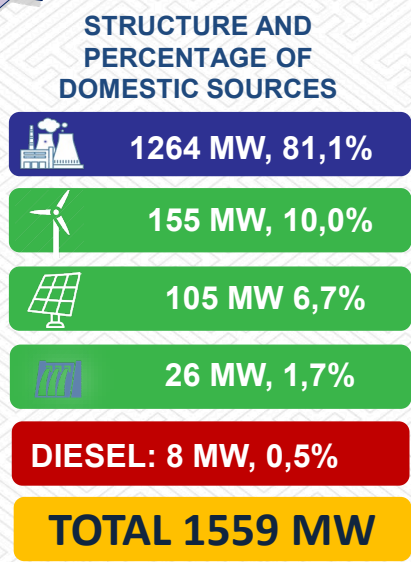
Central Energy System:
Psystem=1446 MW
 Pchp4=772MW, Pchp3=198MW, Pchp2=24MW,
 Pdarkhan/chp=83MW, Perdenet/chp=71MW,
 Perdenetmining/chp=53MW, Pwind=155MW, Psolar=90MW

EES:
Psystem=36 MW
 PchoiHPP=36 MW

WES:
Psystem=22MW
 Pdurgun=12MW
 Psolar=10MW

AUES
Psystem,=19 MW
 Ptaishir=11.2 MW
 Pbogd river=2MW
 Pother HPP=1MW
 Pdiesel=4MW
 Psolar=5.25MW

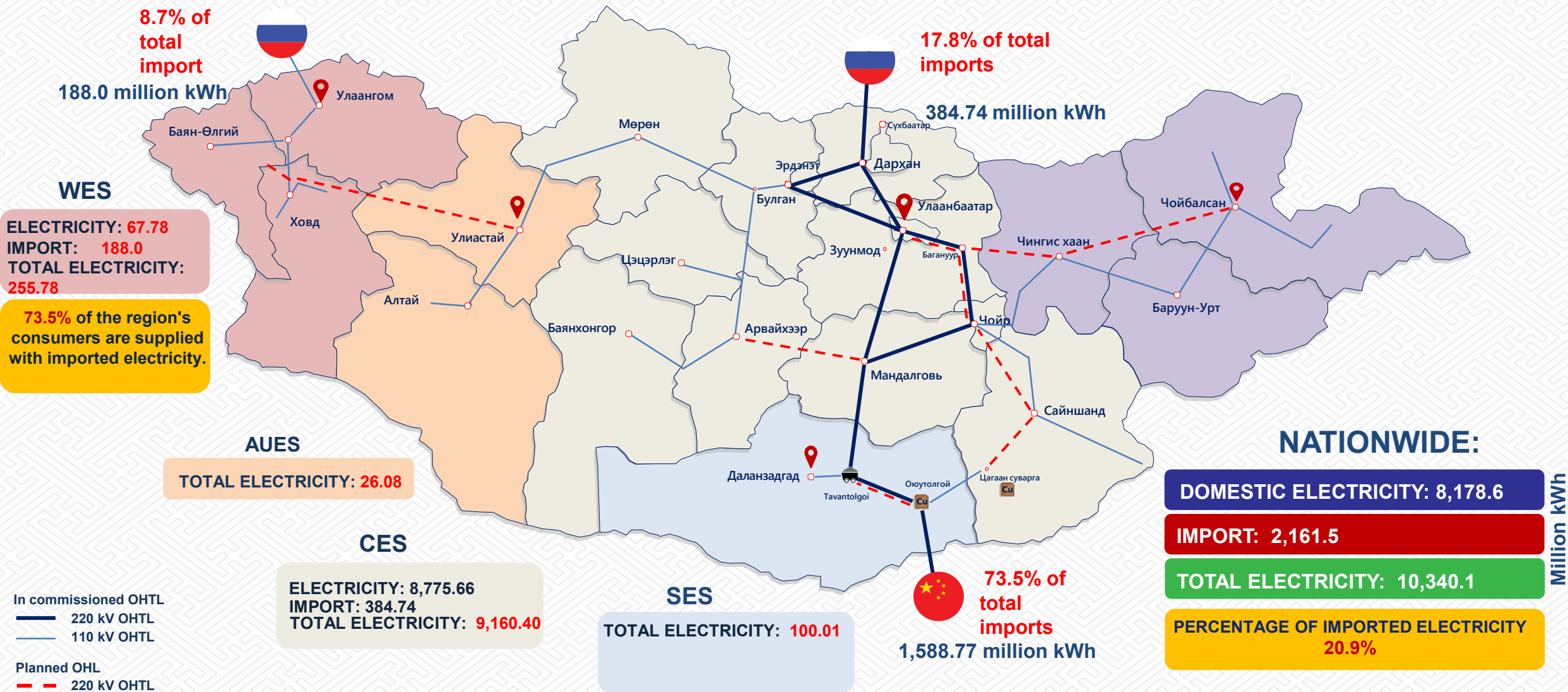
SES:
Psystem=31MW
 PdaiCHP=9MW
 Phspp=18MW
 Pdiesel=4MW



- Solar power plant
- Wind power plant
- Hydro power plant
- Thermal power plant

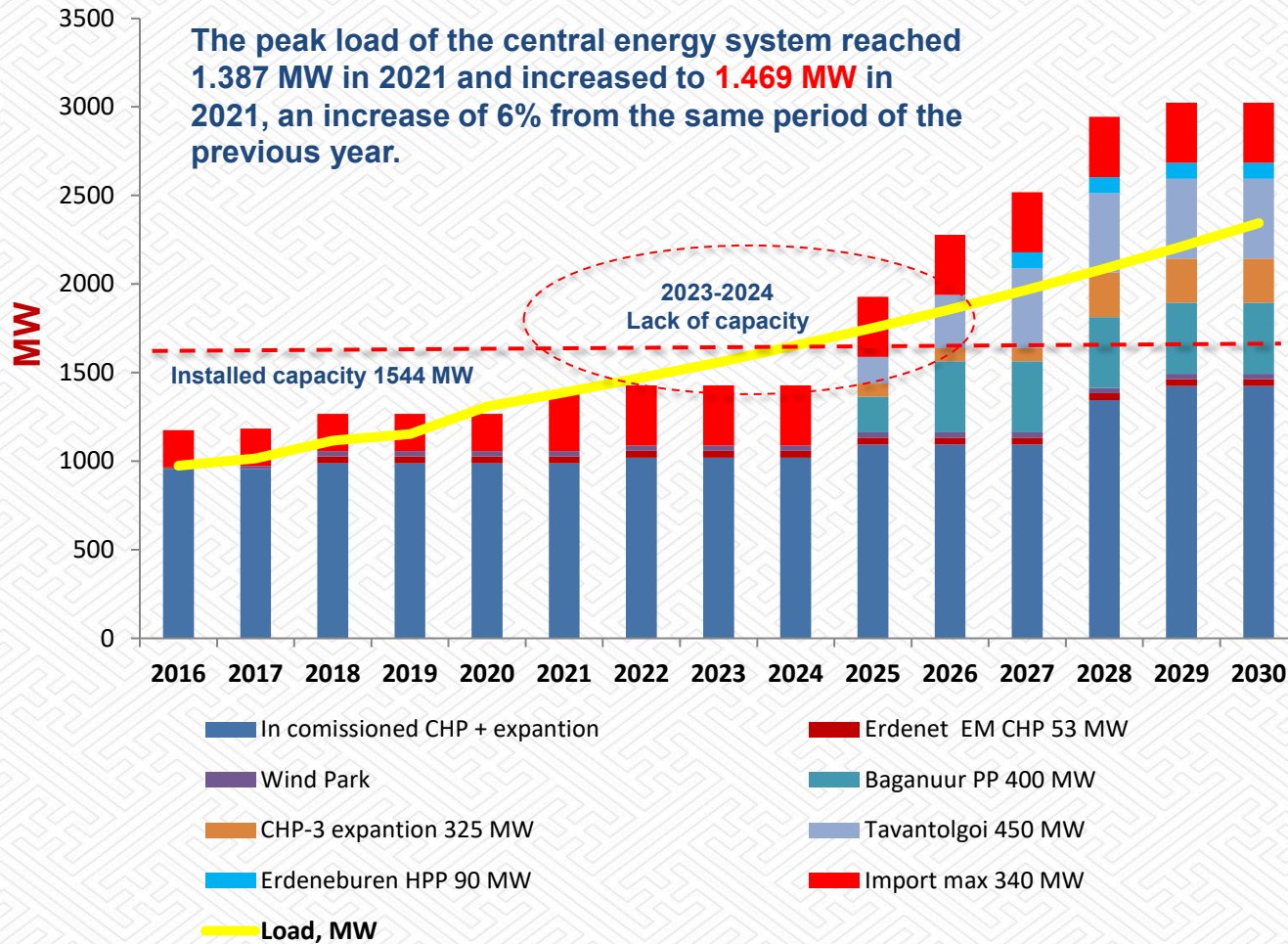


NATIONAL ENERGY PRODUCTION AND IMPORT IN 2022, / million kWh /

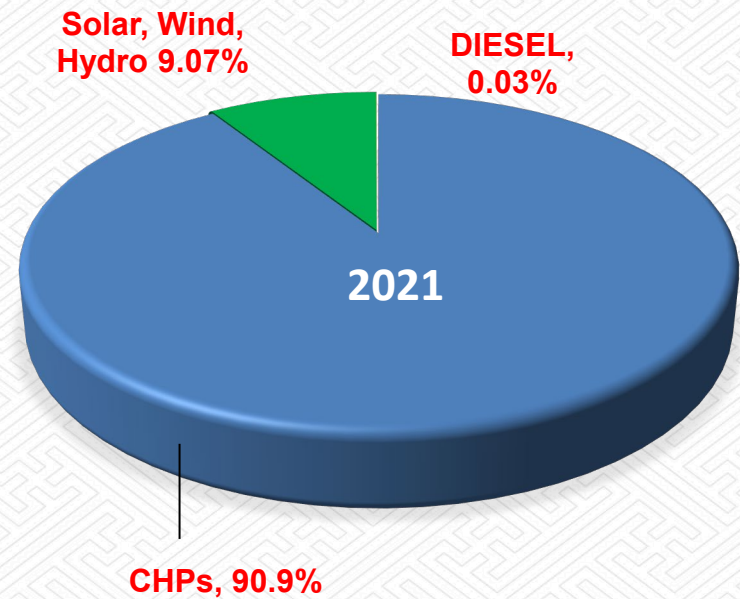




SYSTEM ELECTRICITY BALANCE, until 2030



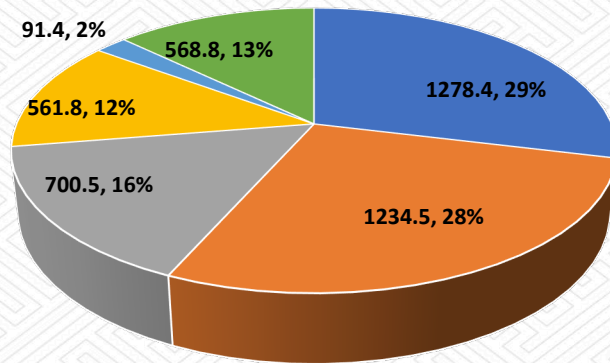
DOMESTIC STRUCTURE OF DOMESTIC ELECTRICITY PRODUCTION, PERCENTAGE





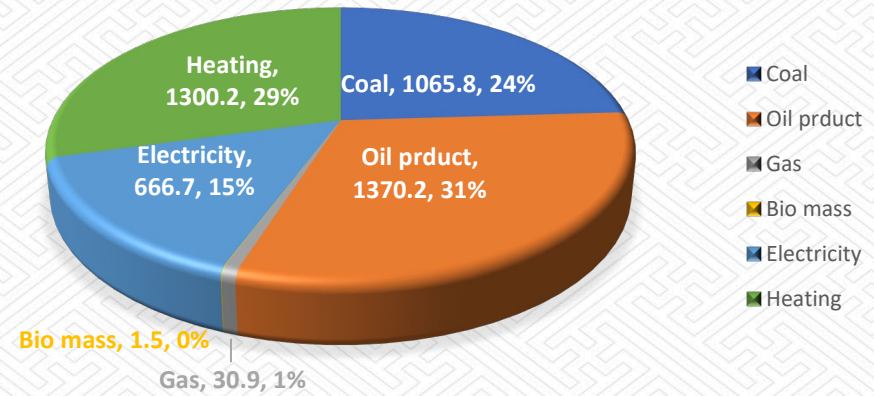
FINAL ENERGY CONSUMPTION

SECTORIAL ENERGY CONSUMPTION, kToe



- Residential
- Industry
- Commercial
- Transport&Communication
- Agricultural
- Non-specified

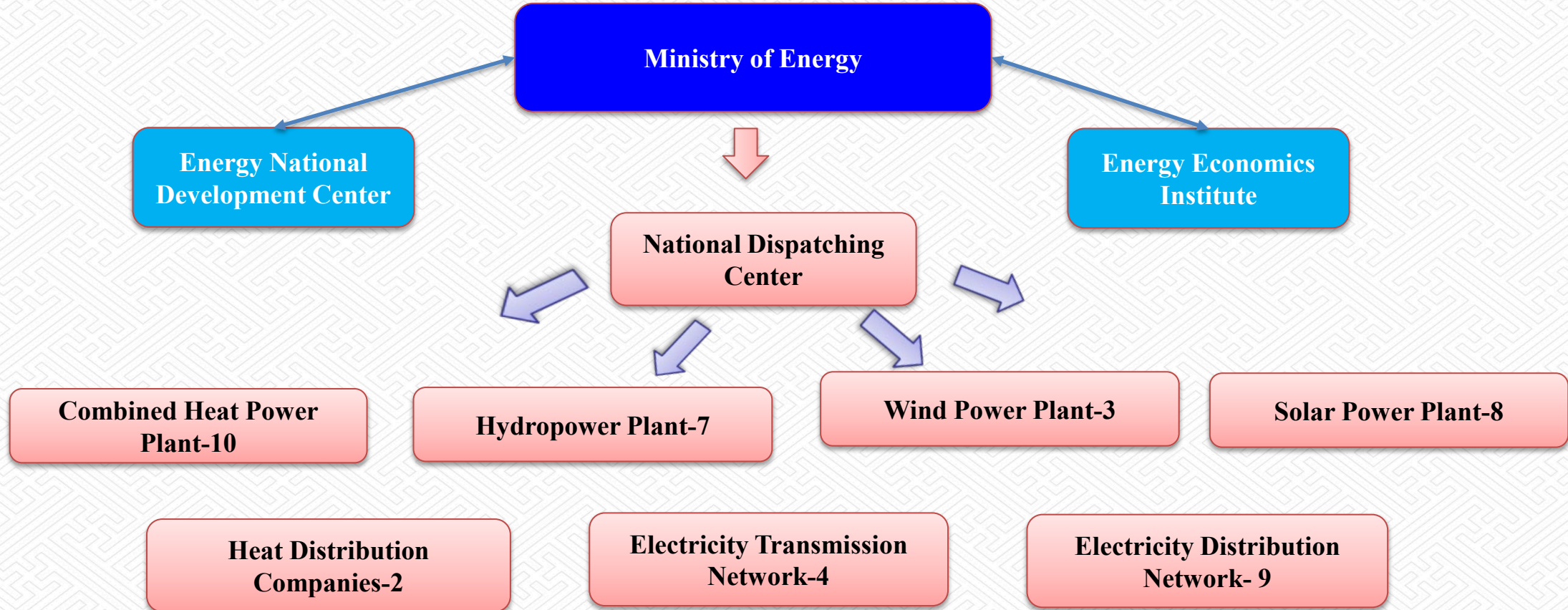
SECTORIAL ENERGY CONSUMPTION FUEL MIX



- Coal
- Oil product
- Gas
- Bio mass
- Electricity
- Heating



Key institutions and state owned energy companies





THE PURPOSE OF NEW RECOVERY POLICY



Reduce the negative impact of the coronavirus infection pandemic on the economy



Promptly address development barriers and expanding economic foundation



Effectively implementing the “Vision-2050” long-term development policy of Mongolia



RECOVERY OF BORDER PORT



ENERGY RECOVERY



INDUSTRIAL RECOVERY



URBAN AND RURAL RECOVERY



RECOVERY THROUGH GREEN DEVELOPMENT

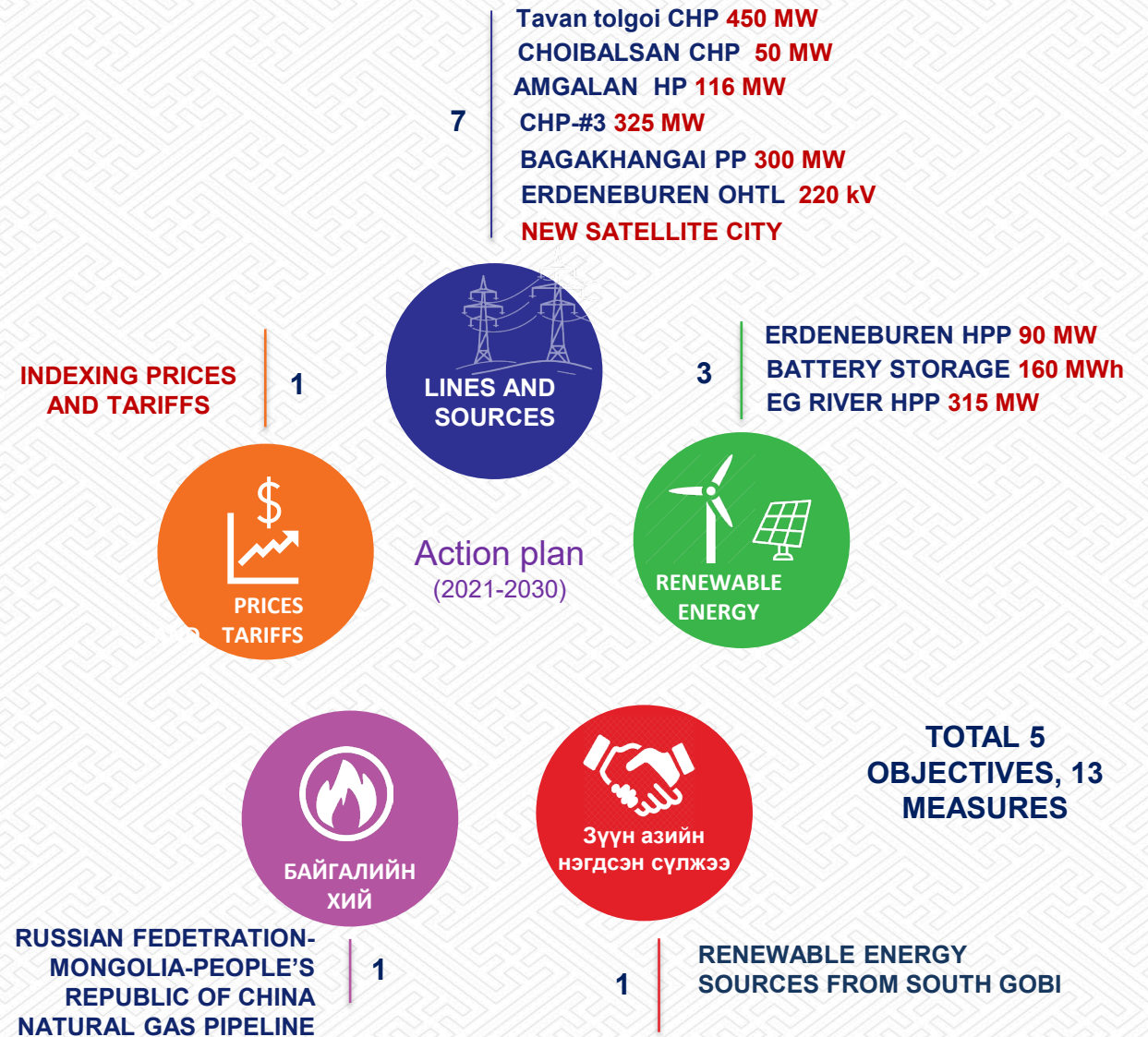


RECOVERY OF THE PUBLIC PRODUCTIVITY



THE PURPOSE OF ENERGY RECOVERY

- ❖ New energy sources and transmission and distribution networks shall be established and their existing capacity shall be enhanced, and the reliability of energy production and supply shall be improved.
- ❖ Renewable energy facilities shall be developed in an appropriate ratio where the water facilities and stored resource stations shall be built for ensuring the reliability and stability of the integrated energy system.
- ❖ In certain phases, the energy sector shall be transferred into an independent financial and economic system.
- ❖ Actions shall be taken to ensure the preparation of the high voltage aerial transmission lines and substations for connecting to the renewable energy source and network within the Northeast Asian integrated energy grid.
- ❖ The construction of a natural gas pipeline from the Russian Federation to the People's Republic of China through the territory of Mongolia shall be boosted.





FOR 22 DEVELOPMENT PROJECTS



CAPACITY EXPANSION PROJECTS OF CHPS

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- CHP-3 **325 MW**
- CHP-2 **100 MW**
- CHOIBALSAN CHP **50 MW**
- AMGALAN TP **116 MW (100 Gcal/h)**
- CHP-4 boiler **500 ton/h**
- GAS SOURCES **219 MW (185 Gcal/h)**



PROJECTS TO BUILD NEW ENERGY SOURCES

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- Tavantolgoi CHP **450 MW**
- ERDENE BUREN HPP **90 MW**
- EG RIVER HPP **315 MW /Research/**
- BAGAKHANGAI PP **300 MW**
- BAGANUUR CHP **400 MBT**



POWER SUBSTATION, DISTRIBUTION AND TRANSMISSION GRIDS PROJECTS

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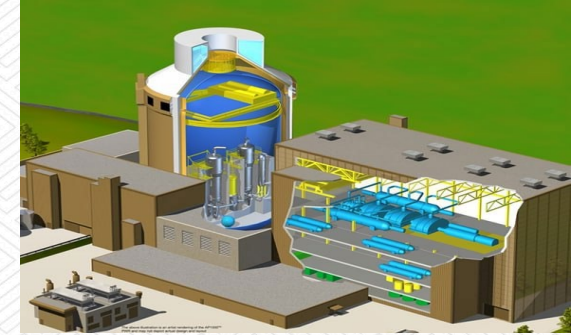


- ERDENE BUREN-MYANGAD-ULIATAI **468 km**
- TAVANTOLGOI CHP-OYUTOLGOI **167 km**
- SAINSHAND-TSAGAANSUVARGA **204 km**
- BAGANUUR-CHINGIS-CHOIBALSAN **518 km**
- BAGANUUR-CHOIR **188 km**
- MANDALGOBI-ARVAIKHEER **287 km**
- BAGANUUR-NALAIKH-ULAANBAATAR **130 km**



ENVIRONMENTALLY FRIENDLY POWER PROJECTS BASED ON SCIENCE AND ADVANCED TECHNOLOGIES

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- NUCLEAR ENERGY
- HYDROGEN
- LNG
- RENEWABLE ENERGY, solar **35 MW**, Wind **15 MW**



THANKS FOR YOUR ATTENTION.
ARIGATOO GOZAIMASHITA.

