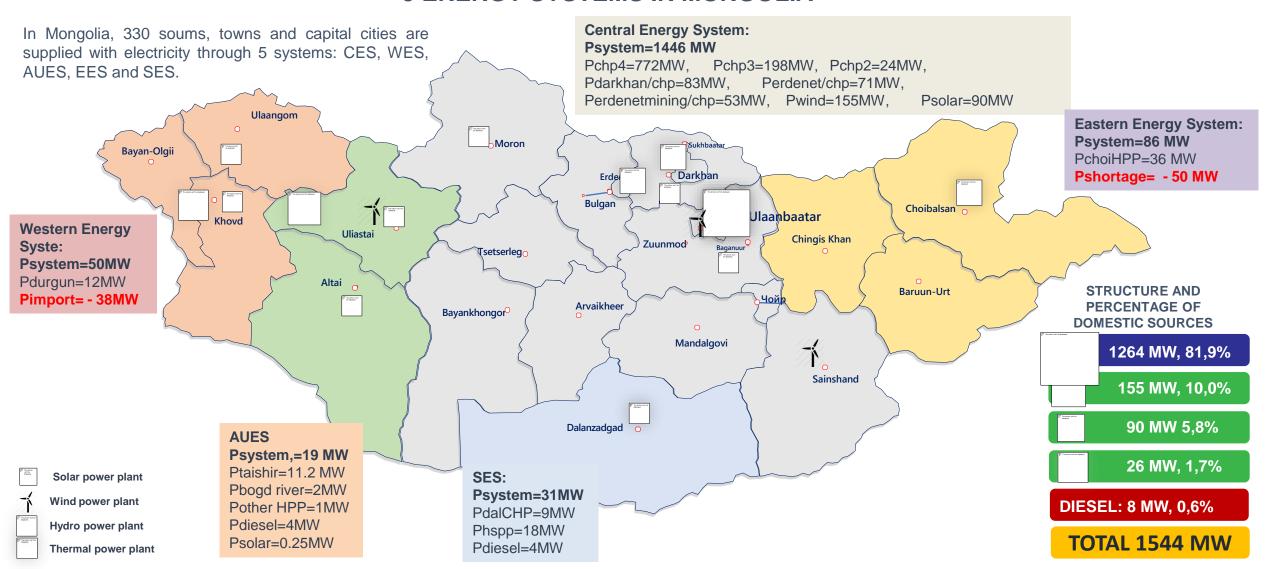
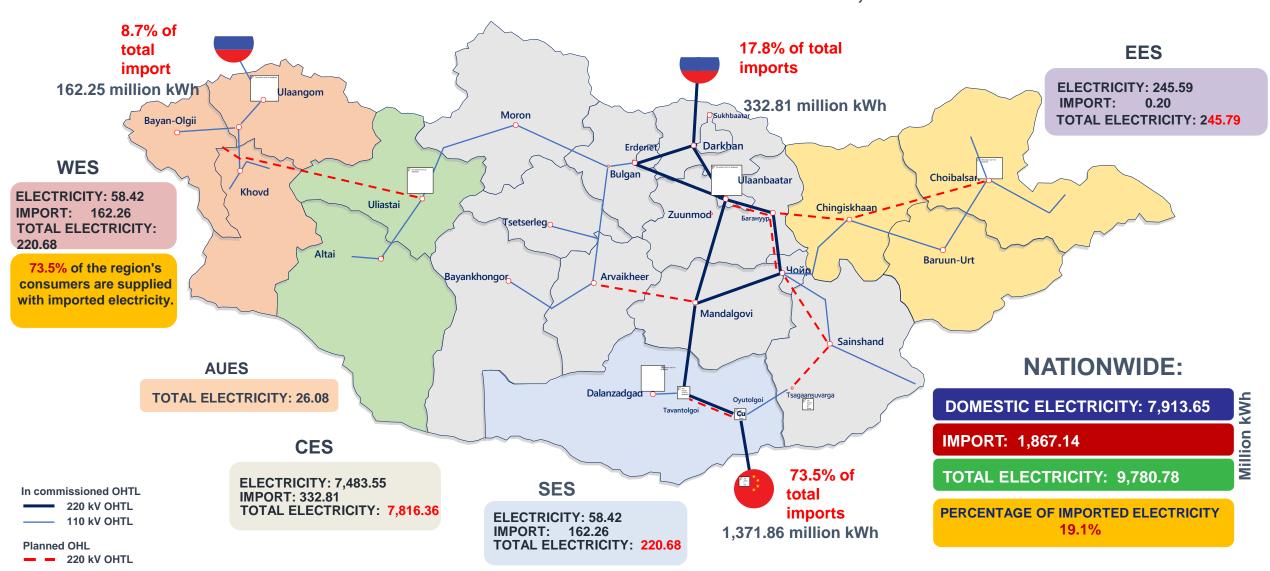
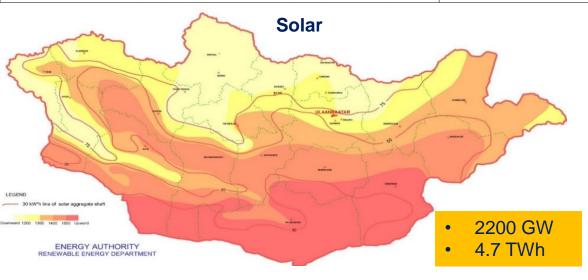
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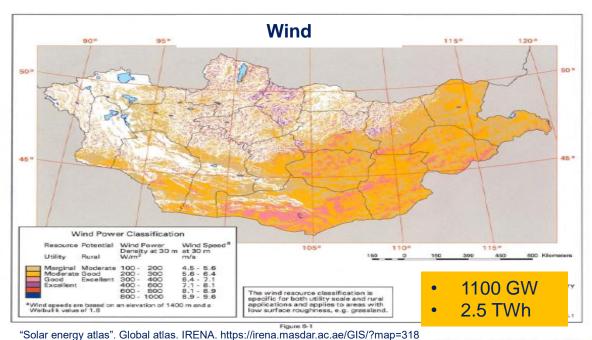
5 ENERGY SYSTEMS IN MONGOLIA

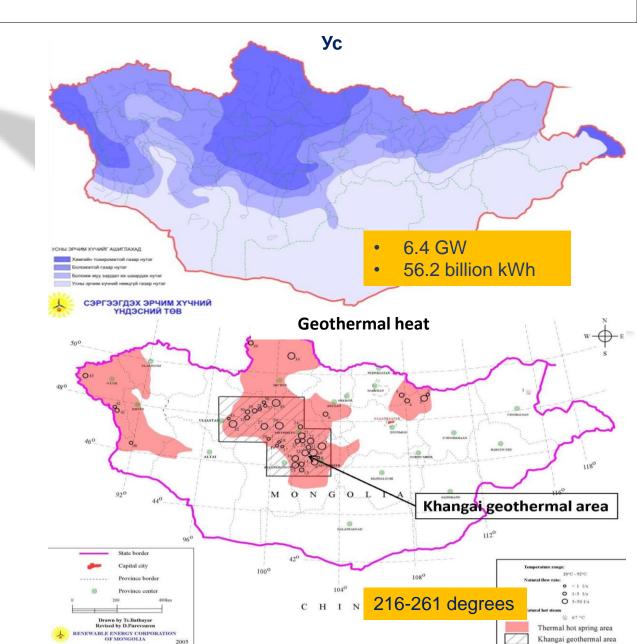


NATIONAL ENERGY PRODUCTION AND IMPORT IN 2021, / million kWh /









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

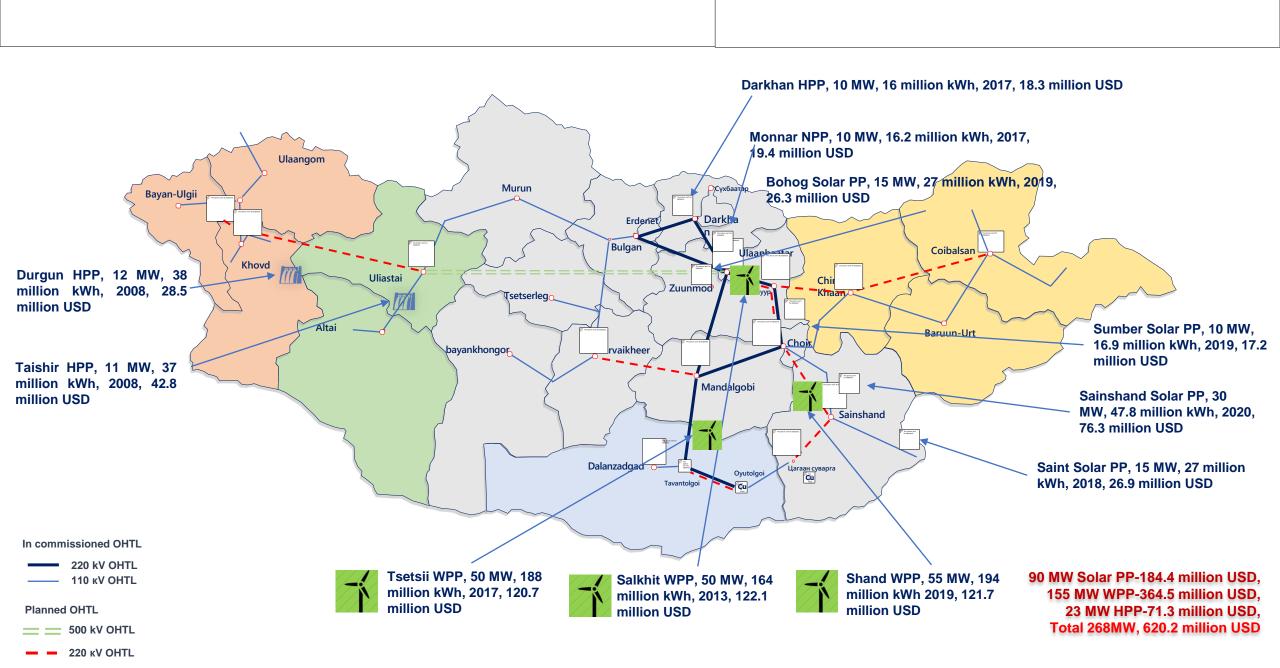


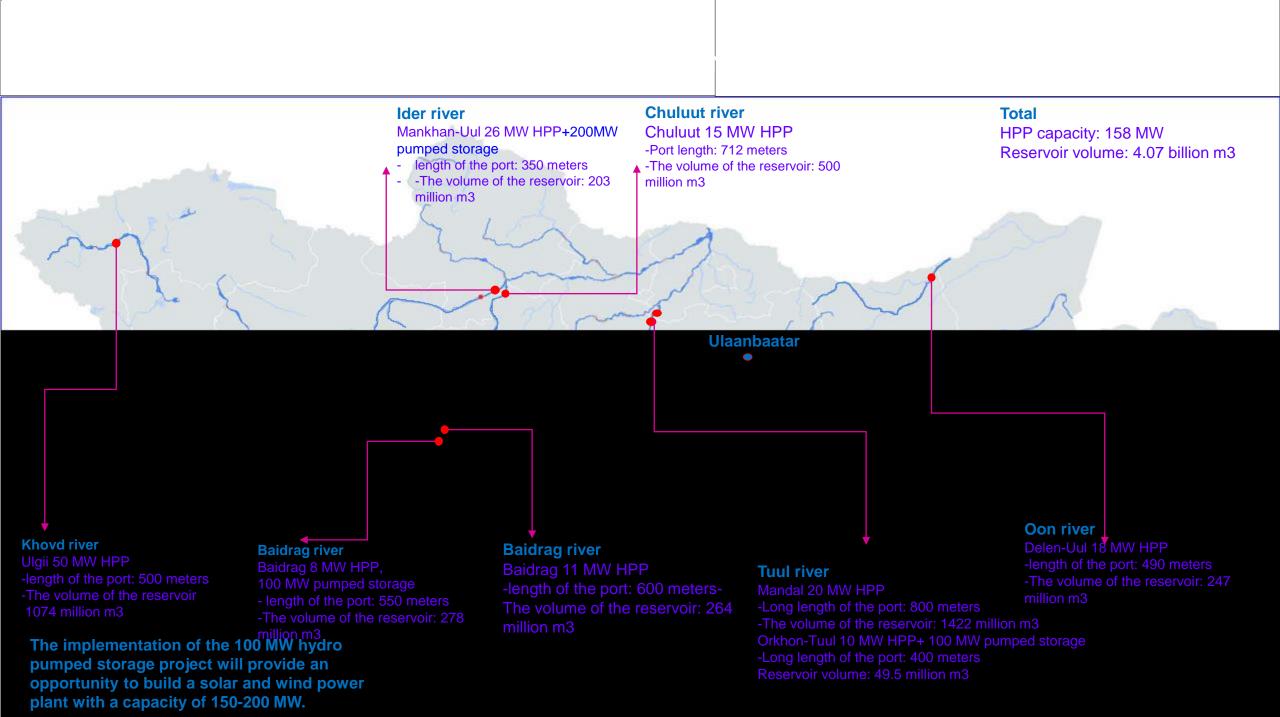
THE PURPOSE OF ENERGY RECOVERY

- 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.



Law	Year	Content
		Law
	2007	Tariffs for the purchase of energy produced by renewable energy sources in the transmission network are set in accordance with international standards.
Renewable energy law	2015	Provisions for calculating the support tariff in addition to the consumer's electricity tariff, Customs and VAT have been exempted.
G,	2019	Setting the upper limit of support tariffs for connecting solar and wind sources to the grid, introducing a competitive auction system at low prices, and establishing procedures for the purchase of electricity from small-scale consumer sources to be supplied to the grid.
		Policy document
Government action program (2020-2024)	2020	It is planned to develop renewable energy production in a reasonable ratio and implement green production projects to reduce greenhouse gas emissions. 4 solar, 2 wind sources, 1 HPP, and 1 charge storage project were included.
Procedures for the supply of energy produced by the consumer's renewable energy generators to the distribution network	2020	A citizen can install renewable energy sources up to 20 kW, not exceeding 50 percent of the capacity set by the Enterprise's technical conditions.
Policy document of the government on energy /expired in 2021/	2015	Increase the share of renewable energy in installed energy capacity to 20 percent in 2020 and 30 percent in 2030
Mongolia joined the Paris and Glasgow Agreements of the United Nations Framework Convention on Climate Change	2015, 2021	Mongolia has set a goal to reduce greenhouse gas emissions by 22.7 percent or 16.89 million tons of CO2 by 2030, and to reduce greenhouse gas emissions in the energy production and supply sector by 8.34 million tons by 2030.
"Vision-2050" Mongolia's long-term development policy document	2020	Develop a low-carbon, productive and inclusive green economy and contribute to international efforts to mitigate climate change.
New Revival Policy-Energy Revival	2021	Erdeneburen 90 MW HPP, Aegean River 315 MW HPP, Renewable energy increase project / CHP-25MW, CHP-15MW, combined-0.5MW, geothermal-5 locations/, Green hydrogen, nuclear power projects





CHOIR-SAINSHAND TRANSMISSION LINE PROJECT

Socio-economic significance:

- In the southern region, It will provide electricity to 1,403 businesses and 11,890 households and support the region's economic development.
- Sainshand industrial complex, Zamiin-Uud free economic zone and strategically important mine palaces will be supplied with electricity.
- The quality and reliability of regional power supply will improve.
- ❖ The current consumption of Khar-Airag, Sainshand and Zamyn-Uud regions is 25.6 MW, and the project will increase the capacity of the line up to 250 MW.

Project overview

Minisrty	Ministry
Implementation period	2021-2023
Project capacity	220 kV, 230 km long transmission line, 220 kV substation
Location	Dornogovi, Govisumber aimag
Total funding	180.0 тэрбум төгрөг
Source of funding	EBRD soft loan
included in the public investment program or not	Article 130 of Chapter 8
It is reflected in the government's action plan or	3.5.5. The regional power grid will be connected to high-voltage transmission lines, and the power supply for mining and heavy industry

Project pogress

Feasibility study, design and detailed environmental assessment were conducted. The route of the 230 km line passing through the territory of the two aimags was agreed upon and confirmed. Design amendments are being made. An environmental assessment is under discussion.

TЭЗУC, Feasibility study

Design

✓

Environmental Assessment

Land permit ✓

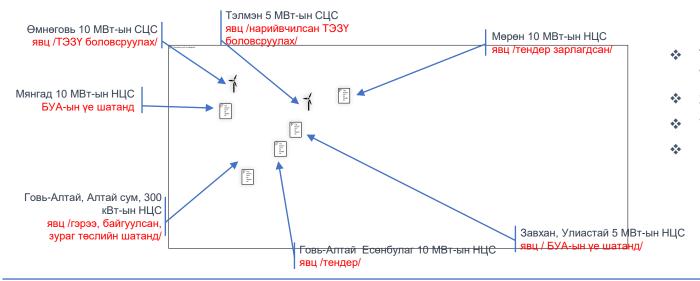
Other relevant permissions

Construction permit

Funding is fully resolved or not

Contract of the general construction contractor

Jpscaling Renewable Energy Sector Projec



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Troject evertien			
Ministry	Ministry of Energy		
Implementation period	2020-2024		
Project capacity	118.8 million kWh of electricity will be supplied. Heating source with total 35.3 MW Solar PV, 15 MW WPP, geothermal heat pump at 5 facilities.		
Location	Combined with 10 MW Solar PV in Myangad soum of Khovd, 10 MW WPP in Umnugovi soum of Uvs, 10 MW Solar PV in Esen-Bulag soum of Govi-Altai, 300 kW Solar PV in Altai soum, 250 kW diesel generator, 3 MWh battery storage system, geothermal heat pumps at 5 facilities such as Uliastai 5 MW Solar PV, Telmen 5 MW WPP, Murun 10 MW Solar PV in Jargalant of Khovd aimag.		
Total funding	208.0 billion MNT,		
Source of funding	World Bank, ADB loans amount to MNT 114.0 billion and grants amount to MNT 94.0 billion		
included in the public investment program or not	In chapter 6		
It is reflected in the government's action plan or	3.5.6. Renewable energy production will be developed in a balanced way and green production projects will be implemented to reduce greenhouse gas emissions. (Two 15 MW wind farms and four 35 MW solar power plants will be implemented.)		

Socio-economic significance:

- The annual fuel consumption of diesel stations in Zavkhan and Gobi-Altai aimags will be saved by 2.7-2.8 billion MNT.
- 250 new jobs will be created.
- 78,000 households in the western region will be provided with green energy.
- Reduce 2.2 million tonnes of carbon dioxide emissions over 25 years.

Project pogress 5 %

A contract has been signed with a geothermal project contractor and work has begun. A detailed feasibility study for Myangad, Umnugovi, Esenbulag and Altai soums has been prepared. There are 2 projects in the process of selecting a contractor, 2 in the stage of concluding a contract with a selected contractor, and 2 in the feasibility study.

Project name	Myanga 10 MW	Umnugibi 10 MW	Yesenbulag 10 MW	Altai soum 300 kW	Uliastai 5 MW	Telmen 5 MW	Murun 10 MW	geothermal
ТЭЗУС, Feasibility study	\checkmark	\checkmark	✓	\checkmark	\checkmark			\checkmark
Design								\checkmark
Environmental Assessment	\checkmark	\checkmark	✓	\checkmark	\checkmark			\checkmark
Land permit	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark
Other relevant permissions	\checkmark		✓	\checkmark	\checkmark			\checkmark
Construction permit								\checkmark
Funding is fully resolved or not	✓	✓	✓	✓	✓	✓	✓	✓
Contract of the general construction contractor								✓

(F To pass of to Region				Socio-economic significance:	
		(F **NAMES NAME)	*	By adjusting the flow of the Baidrag River for many years and hydroelectric power plant with an installed capacity of 30 MW meet the electricity needs of Bayankhongor and Uvurkhang and the center of Sums, and create an opportunity to in renewable energy sources in the Central energy system. Baid participate in the adjustment role and new sources of renew will be created to reduce energy imports	, will reliably ai provinces ncrease the rag HPP will
			*	In this region, hydropower can work more efficiently in cascades and in combination with solar and wind renews sources. The technical potential to increase the production of energy will be improved and the use of green energy will be in	able energy of renewable
	Project (overview	Pro	oject pogress	
Minisrty	Ministry of Energy		Tech	nnical and economic feasibility studies are ready	
Implementation period	2023-2027		Feas	sibility study	✓
Project capacity	30 MW		Desi	ign	
Location	Ulaanbaatar		Envi	ronmental Assessment	✓
Total funding	53.3 million dollars		Land	d permit	
Source of funding	-		Othe	er relevant permissions	
included in the public	_		Con	struction permit	
investment program or not It is reflected in the			Fund	ding is fully resolved or not	
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Contract of the general construction contractor

government's action plan or not -

CONSTRUCTION OF 220 KV 2-CIRCUIT POWER TRANSMISSION LINE AND SUBSTATION IN ERDENEBUREN-MYANGAD AND MYANGAD-ULIASTAI DIRECTIONS

