

# **ENERGY REGULATION-20**



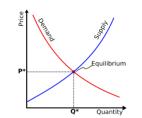
**Energy Regulatory Commission's Commissioner Tuvshinchuluun.** 

Ulaanbaatar City 2021.11.17



#### **CONTENTS**









- 1 Legal Environment of the Energy Regulatory Commission
- 2 Highlights of Energy Regulation
- 3 Regulation of Energy Licenses
- 4 Regulation of Energy Prices and Tariffs
- 5 Implementation of Energy Saving Policy
- 6 Energy Regulatory Commission's Development Strategy



#### **DECISIONS TO ESTABLISH ENERGY REGULATORY COMMISSION**

2001.02.01 •• In addition to transforming the centralized system of the energy sector into independent companies, the establishment of an independent and independent regulatory body that meets international standards and aims to implement government regulation has resulted in realistic energy tariffs, reliable production, increased investment, and It played very important role in protecting the interests of consumers.

2001.04.16 → In accordance with Article 5.1.2 of the Energy Law, the Energy Regulatory Authority was established by Resolution No. 83 of the Government of Mongolia dated April 16, 2001, and its charter was approved.

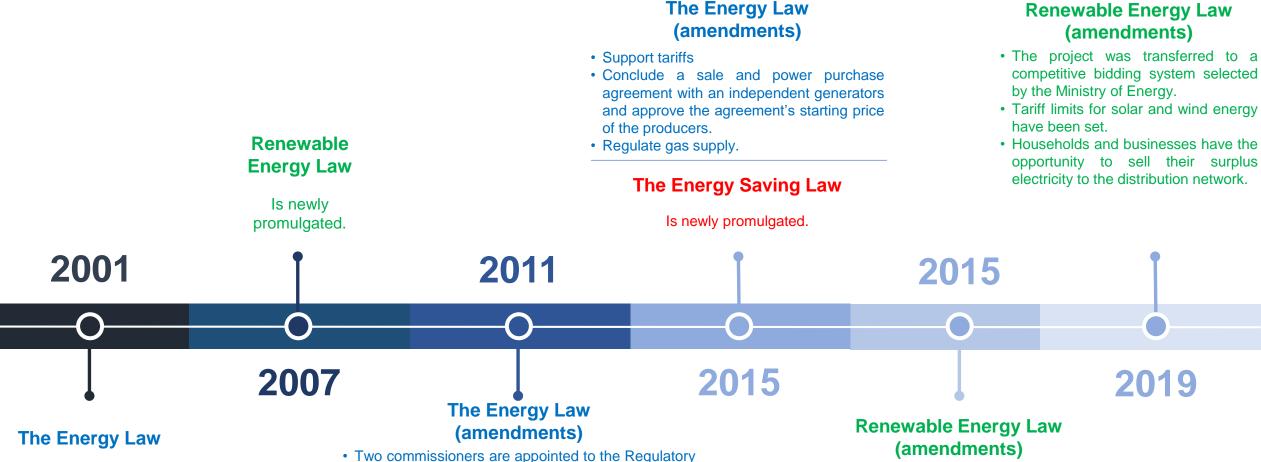
MODITURY TRIMITS STATE TO TO CARDY TO TO CARDY TO TO CARDY TO CARD

2001.06.29 • Order No. 188 of the Minister of Infrastructure dated June 29<sup>th</sup>, 2001 established the management and organizational structure, staffing and approved the salary fund of the Energy Regulatory Authority and started its operation.





#### LEGAL ENVIRONMENT OF REGULATION



Is newly promulgated.

- Two commissioners are appointed to the Regulatory Board at the suggestion of consumer representatives, the Chamber of Commerce and Industry and the Consumer Protection Association.
- The Energy Regulatory Commission has moved to a system in which regulatory service fees and budgets are self-approved.
- Aimag and capital city regulatory councils have one full-time member.
- · Fuel prices are started to be monitored.

- "Support tariff" means a tariff included in energy prices for the purpose of promoting renewable energy;
- "Determining the amount of consumer purchase support tariffs",
- "The difference in the price of electricity generated by the generator specified in Article 11.1 of this Law shall be compensated by the support tariff".



#### **LEGAL ENVIRONMENT OF REGULATION / continued /**

- RESOLUTION OF THE PARLIAMENT OF MONGOLIA "ON MEASURES TO BE TAKEN IN THE FUEL AND ENERGY SECTOR" No. 72 of 2010;
- ▼ RESOLUTION #2 ON STRENGTHENING THE IMPLEMENTATION OF THE DECREE OF THE STANDING COMMITTEE OF THE PARLIAMENT OF MONGOLIA "ON SOME MEASURES TO BE TAKEN IN THE FIELD AND ENERGY SECTOR" 2015:
- ▼ RESOLUTION No. 63 OF THE STATE PARLIAMENT OF MONGOLIA "GOVERNMENT POLICY ON ENERGY / 2015-2030 /";

These resolutions have reduced the long-term debt burden of the sector, reduced inter-company debt and costs, financed major reforms from the state budget, set energy tariffs at real cost, introduced capacity tariffs and green tariffs, and established a connection payment system, these methods brought positive results for the energy sector.



#### МОНГОЛ УЛСЫН ИХ ХУРЛЫН ТОГТООЛ

2010 оны 12 сарын 09 едер

lyraan 72

Терийн ордон, Улаанбаатар хот

Түлш, эрчим хүчний салбарын талаар авах зарим арга хэмжээний тухай

Улсын Их Хурлын даргын 2009 оны 204 дүгээр захирамжаар байгуулагдсан Түлш, эрчим хүчний салбарын санхүү, эдийн засгийн чадаахийг сайжруулах, эрх зүйн орчныг боловсронгуй болгох чиглэлээр холбогдох бодлогын баримт бичгийг боловсруулах үүрэг бүхий ажлын хэсгээс гаргасан санал, дүгнэлт, Монгол Улсын Их Хурлын тухай хуулийн 43 дугаар зүйлийн 43.1 дэх хэсгийг үндэслэн Монгол Улсын Их Хурлаас ТОГТООХ нь:

1.Түлш, эрчим хүчний салбарын санхүү, эдийн засгийн чадавхийг сайжруулах, найдвартай эжиллагааг хангах чиглэлээр дараахь арга хэмжээ авч хэрэгжүүлэхийг Монгол Улсын Засгийн газар /С.Батболд/-т даалгасугай:

1/Багануур, Шивээ-Овоогийн нүүрсний уурхай болон эрчим хүчний салбарын төрийн өмчийн компаниудын урт хугацаат зээлийг анх зээлсэн үеийн ханшаар тооцон төгрөгт шилжүүлэх, ханшийн зөрүүнээс үүсэх алдагдыг Засгийн газар бүрэн хариуцаж тухайн салбарт оруулсан хөрөнгө оруулалт болгон тооцох, цаашид мөнхүү урт хугацаат зээлийн үндсэн болон хүүгийн төлбөрийг барагдуулах асуудлыг судлах;

2/тевийн бүсийн эрчим хүчний компаниудад улсын төсвөөс олгож байгаа татаасын хэмжэзгээр тухайн салбарын компаниуд болон нүүрсний уурхай хоорондын хуучин өр, авлагыг бүрэн хаах;

З/хэрэглэгчид ирэх ачааллыг хөнгөлөх зорилгоор 3 жилийн хугацаанд Багануур, Шивээ-Овоогийн нүүрсний уурхай болон төрийн өмчийн эрчим хүчний компаниудад улсын төсвөөс олгож байгаа татаасыг бууруулахгүй байх, тарифын орлогоор санхүүжүүлэх боломжгүй өндөр өртөг бүхий томоохон шинэчлэлийн ажлуудыг улсын төсвөөс санхүүжүүлэх;

4/эрчим хүчний салбарыг зах зээлийн харилцаанд шилжүүлэх үйл явцыг эрчимжүүлэн менежментийг сайжруулж, үйлдвэрлэл, дамжуулалт, түгээлтийн үр ашгийг дээшлүүлэх, өртөг зардлыг хямдруулах, нүүрс боловсруулж ашиглах талаар бодлого боловсруулж хэрэгжүүлэх;

5/аймгуудын төв, түүний дотор тэргүүн ээлжинд Ховд, Увс, Дорноговь, Сэлэнгэ аймаг болон Хөтөл тосгоны дулааны станц, дулааны шугам сүлжээний үйл ажиллагааг сайжруулахад төрөөс дэмжлэг үзүүлэх, эсхүл Концессын тухай

хуульд заасны дагуу хувийн хөрөнгө оруулалтыг татан оролцуулах хувилбаруудыг судлан аль оновчтойг нь сонгох замаар техник, технологийн шинэчлэл хийх, боловсон хүчин, цалин хөлс, үнэ тарифын нэгдсэн бодлогоор хангах асуудлыг шийдвэрлэх;

6/эрчим хүчний үйлдвэрлэлийг нэмэгдүүлэх, өртөг, зардлыг хямдруулах, байгаль орчиннд үзүүлэх сөрөг нөлөөллийг багасгах зорилгоор эрчим хүчний шинэ эх үүсвэрийг Багануур болон бусад нүүрсний ууухайг түшиглэн барыж байгуулах, Улаанбаатар хотын өсөн нэмэгдэж байгаа цахилгаан, дулааны хэрэгцээг 3, 4 дүгээр цахилгаан станцын хүчин чадлыг нэмэгдүүлэх, өргөтгөн шинэчлэх замаар шийдвэрлэх:

7/улсын төсвөөс татаас олгож байгаа хугацаанд ахуйн цахилгааны үнэ, тарифыг шатлалтай болгон өрх бүрийн сарын хэрэглээний 150 кВтц-ийг одоогийн мөрдөж байгаа үнэ тарифыг илдексжүүлэн тооцож, түүнээс дэрим хэрэглээ болон үйлдвэр, аж ахуйн нэгж ,байгууллагын эрчим хүчний үнэ, тарифыг бодит өртгөөр тооцох, үйлдвэр, аж ахуйн нэгж, байгууллагад чадлын тариф нэвтрүүлэх;

8/эрчим хүчний салбарын компаниудыг 2014 оноос эхлэн Эрчим хүчний тухай хуулийн 26 дугаар зүйлийн 26.2.1, 26.2.5-д заасны дагуу зах эээлийн зарчимд шилжүүлэн ажиллуулах бодлого, зохион байгуулалтын арга хэмжээг холбогдох байгууллагуудтай хамтран авч хэрэжүүлэх;

9/Упаанбаатар хотын гэр хорооллын цахилгаан түгээх сүлжээг бүрэн шинэчилж, өвлийн улиралд шенийн цагаар ахуйн цахилгааны хэрэглээний үнэ, тарифыг "О" төгрөгт шилжүүлэх талаар бодлого боловсруулах.

2.Энэ тогтоолын хэрэгжилтийн явцын талаар жил бүрийн 4 дүгээр улиралд багтаан Улсын Их Хуралд танилцуулж байхыг Монгол Улсын Засгийн газар /С.Батболд/-т, биелэлтэд хяналт тавьж ажиллахыг Улсын Их Хурлын Эдийн засгийн байигын хороо /Ц.Баярсайхан/-нд тус тус үүрэг болгосугай.

МОНГОЛ УЛСЫН ИХ ХУРЛЫН ДАРГА Д.ДЭМБЭРЭЛ

2



2 Highlights of Energy Regulation

"Single Buyer" Model Approved by Order No. 240 of the Minister of Infrastructure "On Approval of the Model".	2002	03  Highlighted works of ENERGY	2009	"Renewable Energy Regulatory Development Plan"  ✓ was developed in cooperation with the European Bank for Reconstruction and Development (EBRD) in order to create
Energy Regulators Regional Association (ERRA)  The Energy Regulatory Authority of Mongolia has been approved	2003			regulations that support private investment in Mongolia's renewable energy sector.
as a full member.  United States Agency for International Development (USAID)  A second level Memorandum of Understanding (MoU) was			2010	The Taishir Hydropower Plant was commissioned, and the Regulatory Board issued a license to generate electricity for the plant and set its tariffs.
signed between the Energy Regulatory Authority.  For the first time, public consultations on electricity and heating tariffs were organized in Ulaanbaatar, Nalaikh district and Dornod aimag.	2004		2011	Long-term loans in the energy sector are converted into MNT at the exchange rate at the time of initial borrowing reflected in the balance sheet.
East Asia and Pacific Regulatory Authority (EAPIRF)  became a full member.	2005		2012	The Energy Regulatory Commission of Mongolia Reorganized by Resolution No. 49 of the Government of Mongolia.
The "SPOT" electricity market has been launched within the Central Region.  Implementation of the Unified List of Accounts to be followed in the energy sector initiated	2006		2013	"Regulation on non-tariff regulated paid services"  Approved for the first time by Resolution No. 150 of the Energy Regulatory Commission in 2013, the Energy Regulatory Commission monitors the amount of payment for certain types of services provided in the monopoly market.  The Energy Regulatory Commission's building extension
incentives and regulations, the "Performance Agreement" has been established with licensed companies.  A competitive (auction) market based on growth in consumption has started to operate among electricity generators in the central region.  Asian Development Bank, the third meeting of Central Asian	2007		2014	has been commissioned.  E-License Electronic System In addition to the approval of licensing requirements and procedures, an electronic system for receiving license applications has been introduced.  Procedure for indexation of energy prices and tariffs
was held in Ulaanbaatar.  The Durgun Hydropower Plant was commissioned, and the Regulatory Board issued a license to generate electricity at the plant and set tariffs.	2008		2015	"Power Purchase Agreement Model", "Methodology for determining the starting price of an independent power generator's contract" As part of the goal to improve the investment environment in the energy sector

#### **Energy saving unit**

The Committee was newly established by Resolution No. 132 of the Government of Mongolia dated February 29, 2016.

#### **Designated Consumers**

Resolution No. 232 of the Energy Regulatory Commission dated December 26, 2016 identified and registered 127 business entities and organizations.

#### The first Energy Auditor in Mongolia

Trained and certified.

#### **Regional Meeting of Energy License Holders**

Meetings and workshops were organized in Dornod, Khovd, Erdenet and Ulaanbaatar.

#### **National Energy Saving Program**

The program was approved by the Resolution No. 274 of the Government of Mongolia dated September 20, 2017.

"Incentive and regulation procedure"
"Competitive Electricity Market Rules"

Approved and enforced.

## To bring heat distribution and supply activities in Ulaanbaatar in line with the law

In Ulaanbaatar, activities of more than 530 individuals and legal entities known as contracted distributors of thermal energy, have been terminated, and the interests of consumers have been protected by approving 66 licenses and tariffs.

2016

Highlighted works of ENERGY REGULATION

2017

#### **Meeting of local Heat Generating License Holders**

Organized by the Energy Regulatory Commission.

#### **Green Finance Forum**

Organized in cooperation with Xac Bank.

**Energy Regulatory Commission Strategic Document (2018-2021)** 

Developed and implemented.

## Total debt of "Baganuur" JSC and "Shivee-Ovoo" JSC totaling 110.8 billion MNT

"Government Resolution No. 132 of 2018 decided to consider this debt as an investment in the coal mine.

#### "Designated Consumer's Meeting"

Organized.

**Energy saving office building of the Energy Regulatory Commission** 

Commissioned.

Эрчим хүчний зохицуулах хорооны эрчим хүчний хэмнэлттэй оффисын байр

Ашиглалтад оров.

# Renovation and expansion of turbine 1-4 of Thermal Power Plant #4

The Energy Regulatory Commission supported the issuance of loan guarantees and the inclusion of loan interest payments in tariffs

#### 9 sources of solar and wind energy

In connection with the commissioning of the generators, measures have been taken to issue licenses for electricity generation and to approve tariffs to support renewable energy.

2020

2019

2018

2013-2020



# 3 Regulation of Energy Licenses



#### **NUMBER OF LICENSES AND LICENSE HOLDERS**

		License Types		2001 20		2011		2016		2020		2021		
Nº	Li			Number of License Holders	Number of Licenses	Number of License Holders								
	-	Conventional Source	7	7	7	7	7	7	8	8	11	9	11	9
1	Power Generation	Renewable Source					6	6	5	5	13	13	13	13
		Amount	7	7	7	7	13	13	13	13	24	22	23	21
2	Heat Generation		8	1	10	3	10	3	22	14	27	20	27	20
3	3 Power Transmission		2	2	2	2	2	2	3	2	3	2	3	2
4	4 Power Distribution, Supply		25	9	34	13	39	16	54	20	62	25	64	26
5	5 Heat Distribution, Supply		16	3	65	25	77	29	65	14	191	73	191	73
6	6 Dispatcher Coordination		1	1	1	1	1	1	1	1	1	1	1	1
7	7 Power Import, Export		3	0	11	6	16	8	13	3	9	1	9	1
		Conventional Source			3	2	7	5	22	18	18	15	16	13
	Power Related N	Renewable Source			1	1	6	6	23	23	31	30	25	23
		Network, substations					1		2	0	4		4	1
		Thermal Plant					1		8	5	3	3	2	2
		Amount	-	-	4	3	15	11	55	46	56	48	47	39
	А	mount	62	23	134	60	173	83	226	113	373	192	365	183





#### INTERNAL USAGE AND ELECTRICITY TRANSMISSION AND DISTRIBUTION LOSSES

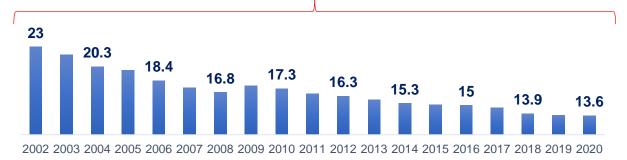
#### Target Level Study for Electricity Consumption of Internal Usage



The Energy Regulatory Commission (ERC) has set a target for the annual share of electricity consumption of internal usage and monitored its implementation, reducing the share of electricity consumption by 7.84 units and saving 353.1 million kWh of electricity and increasing the sales.

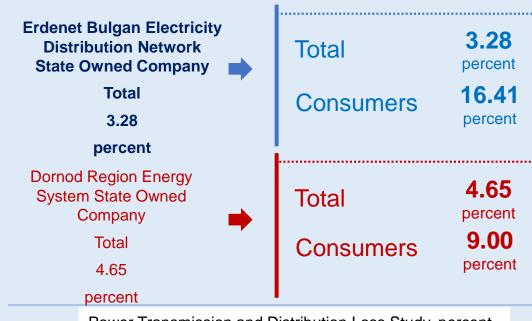
#### **Power Transmission and Distribution Loss Study in the CRIPG**

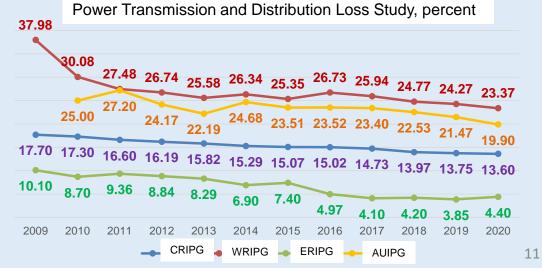
Savings 428.2 million kVh



The Energy Regulatory Commission (ERC) has set and monitored the rate of loss of electricity transmission and distribution every year, from 23.0 percent in 2002 to 13.6 percent in 2020. During this period, a total of 428.2 million kWh of electricity was saved, which is an average of 32.2 billion MNT.

Distribution losses was calculated in sum amount, starting from 2019, the distribution loss was separated from sales, it is determined by technical and commercial level and loss is separately calculated.





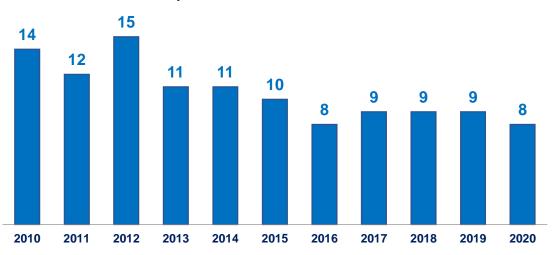


#### **RELIABILITY OF ELECTRICITY SUPPLY**





# System Average interruption Frequency per Customer , ISAIFI /amount/



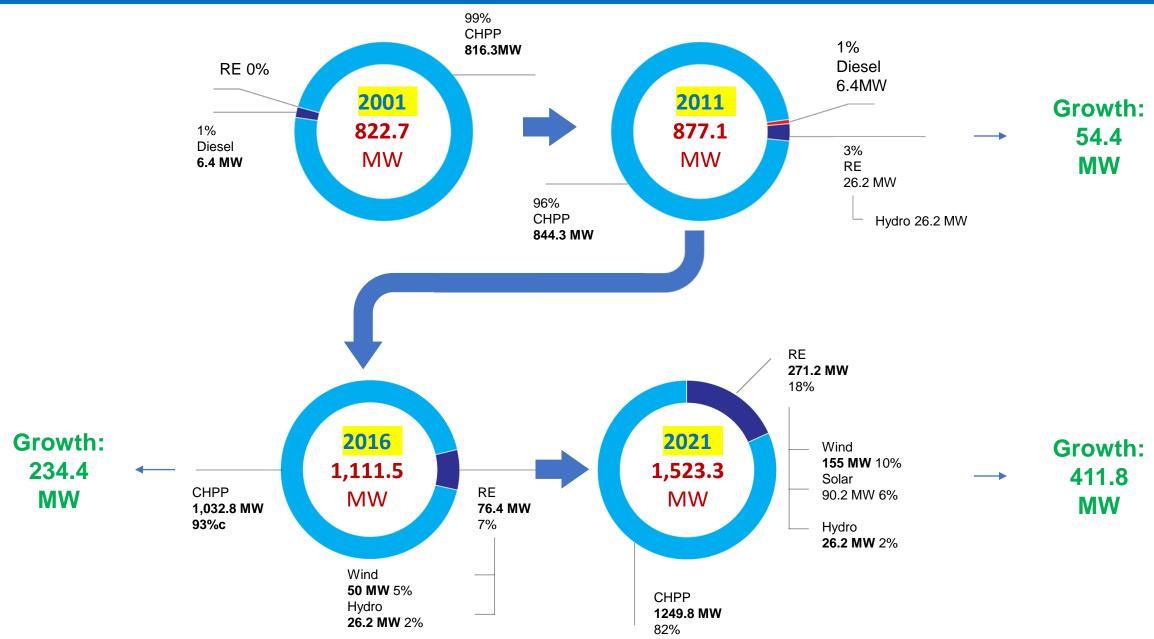
## Average Interruption Duration Index of Consumers, ICAIDI /Minutes/



Internationally, ISAIDI, ISAIFI, and ICAIDI are calculated, and the duration of interruptions per user has decreased six times in 10 years, the frequency of interruptions per user across the industry has decreased 1.8 times, and the average interruption index has decreased 3.6 times.



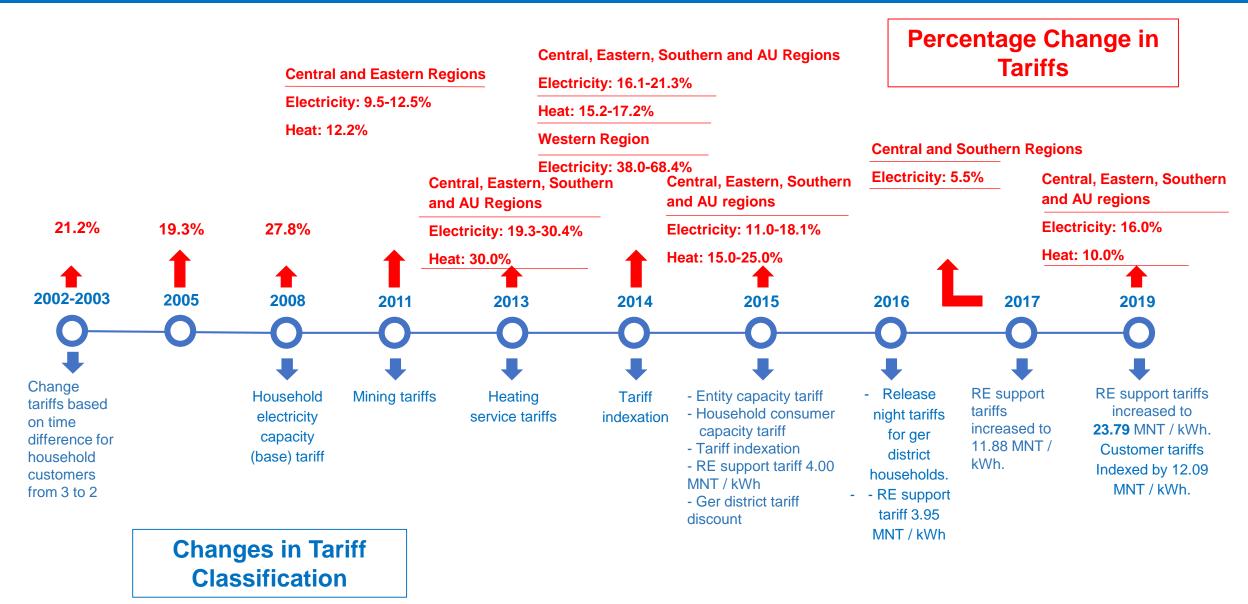
#### **INSTALLED CAPACITY OF GENERATION**





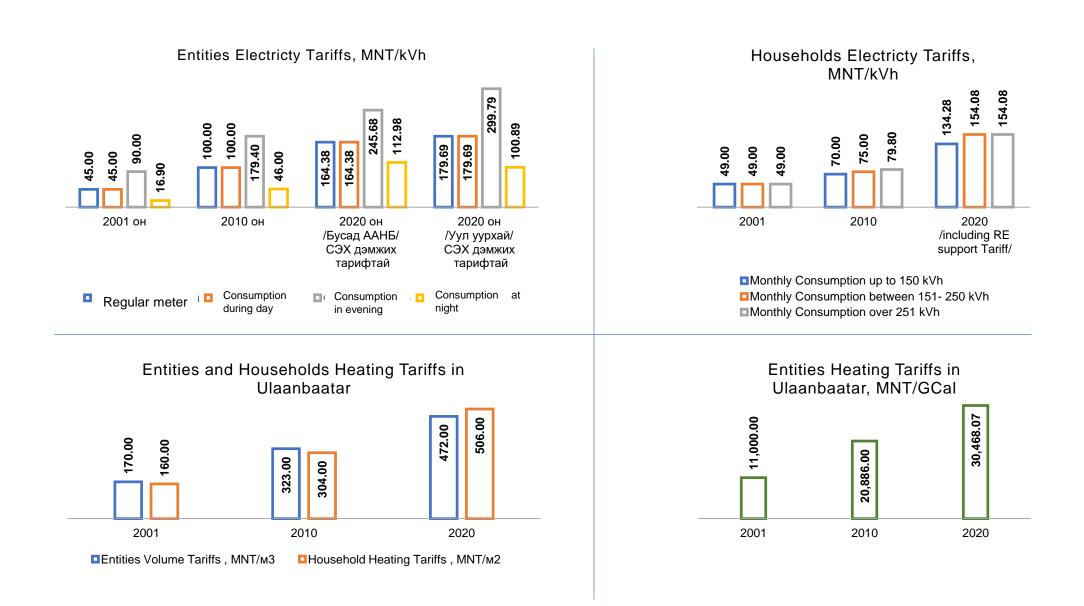


#### **CONSUMER ENERGY TARIFF REGULATION**





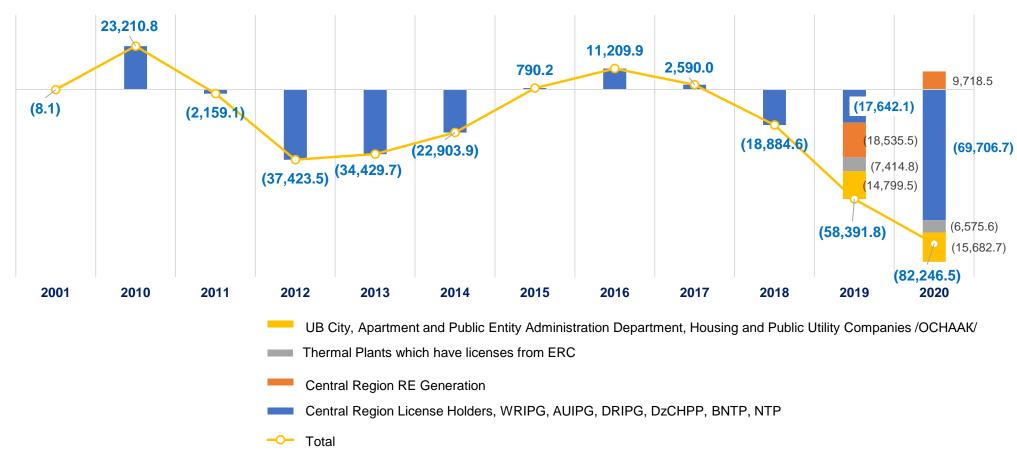
#### **ELECTRICITY TARIFF CHANGES FOR CONSUMERS TO BE SOLD**





#### **ENERGY SECTOR PROFIT AND LOSSES**



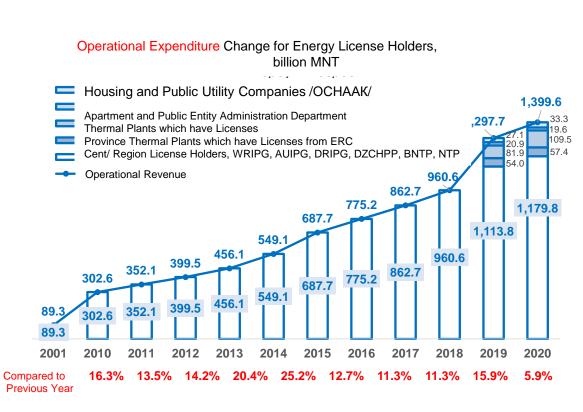


#### Note:

The energy sector consumes 7.5 billion kWh (excluding Oyu Tolgoi's 1.3 billion kWh of imports) with operating costs of MNT 1.49 trillion, sales revenue of MNT 1.4 trillion, and a loss of MNT 92.0 billion (excluding profits from RE sources). amount).



#### **ENERGY SECTOR'S INCOME AND EXPENDITURE CHANGES**

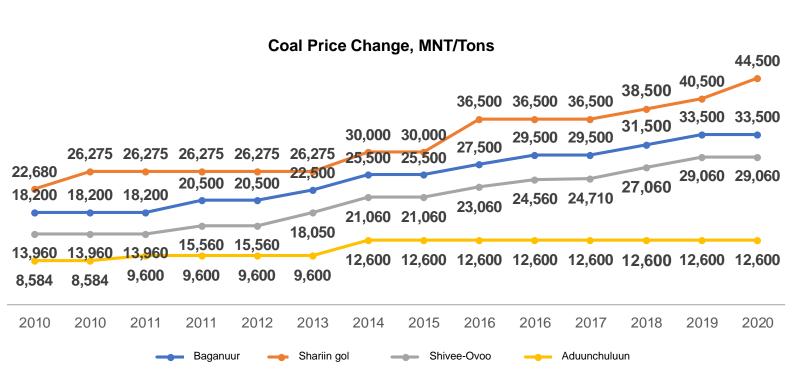






#### **COAL PRICE REGULATION**

Mine Names	Mine's Coal Sales, thousand tons							
willie rvailles <u>-</u>	2017 он	2018 он	2019 он	2020 он	Percentage			
Paganuur	4,039.2	4,255.6	4,110.5	4,050.5	53.2%			
Baganuur Shariin Gol	909.4	1,083.9	1,128.5	1,003.9	13.2%			
Shivee Ovoo	2,020.3	1,964.9	2,009.8	1,987.8	26.1%			
Aduunchuluun	526.4	533.6	568.7	571.4	7.5%			
Total	7,495.3	7,838.0	7,817.5	7,613.6				
		Coal Cons	umption, tho	usand tons				
ДЦС-ууд	2017 он	2017 он 2018 он 2019 он 2020 о			Эзлэх хувь			
ДЦС-4 ТӨХК	3,462.4	3,384.5	3,495.5	3,583.1	50.7%			
ДЦС-3 ТӨХК	1,294.2	1,331.5	1,305.3	1,340.6	19.0%			
ДЦС-2 ТӨХК	244.2	264.7	254.1	227.4	3.2%			
ЭДЦС ТӨХК	323.8	326.5	290.1	256.6	3.6%			
ЭҮДЦС		435.9	375.7	346.7	4.9%			
ДДЦС ТӨХК	400.3	400.2	433.5	438.9	6.2%			
БНДС ТӨХК	56.9	61.6	61.4	64.8	0.9%			
ндс төхк	31.2	34.8	43.1	36.7	0.5%			
АДС ТӨХК	125.4	189.6	229.8	250.2	3.5%			
ДБЭХС ТӨХК	500.5	465.0	531.4	527.4	7.5%			
Total	6,438.9	6,894.2	7,020.0	7,072.3				



#### According to the Energy Law, the price of fuel used for power generation:

- > In August 2013, the coal price of "Baganuur" JSC and "Shivee-Ovoo" JSC was increased by 10.0 percent,
- ➤ In December 2014, coal prices of "Baganuur" JSC, "Shivee-Ovoo" JSC, "Shariin Gol" JSC and "Aduunchuluun" JSC increased by 13.3-16.6 percent,
- ➤ In 2016, coal prices of "Baganuur" JSC, "Shivee-Ovoo" JSC and "Shariin Gol" JSC increased by 7.8-21.7 percent,
- In 2018, the coal price of "Baganuur" JSC was increased by 6.8 percent, the price of "Shivee-Ovoo" JSC was increased by 9.5 percent, and the price of "Shariin Gol" JSC was increased by 5.5 percent.

In 2019, the coal price of "Baganuur" JSC was increased by 6.3 percent, the price of "Shivee-Ovoo" JSC was increased by 7.3 percent, and the price of "Shariin Gol" JSC was increased by 5.1 percent.

In March 2020, the price of Shariin Gol JSC's coal was reviewed and increased by 9.9 percent.



# 5 | Energy Saving Policy and its Implementation



#### LAW ON ENERGY SAVINGS AND IMPLEMENTATION

The law on Energy Saving was approved by the Parliament on November 26th, 2015.

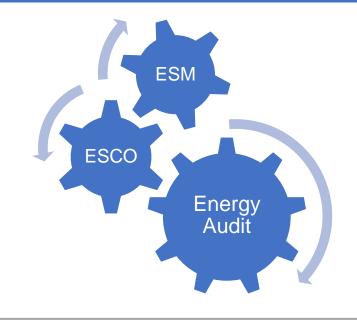
Government organization

**Professional Service** 

**Consumers** 

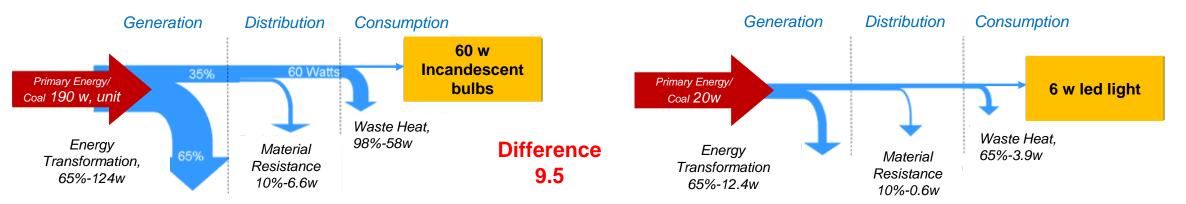
# OBLIGATION, INCENTIVE

- Government policy and law;
- Rules and regulation;
- · Norm, standard.



#### **TARGET GROUP**

- Designated Consumer
  - Energy sector
  - Industry sector
  - Construction sector





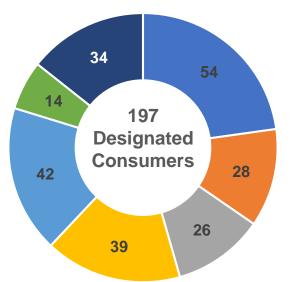
#### LAW ON ENERGY SAVINGS AND IMPLEMENTATION / continued /

#### BY THE LAW ON ENERGY SAVINGS

- Organize nationwide Implementation of state policies and legislation on energy savings, and develop proposals to improve legal regulation;
- Identify and register designated consumers, receive data and reports, and provide professional methodologies for energy saving activities;
- To train and specialize energy auditors and energy saving managers, and to accredit professional energy saving organizations;
  - Develop information systems to save energy and to promote efficient consumption, advertise to the public, and organize related activities

#### There are

- 62 countries with energy saving laws;
- 51 countries with austerity policies and programs;
- Energy Efficiency
   Organization 56 countries;
- 75 countries in cooperation with ministries and other organizations.



- State Budget funded
- Service and offices
- Mining
- Light and Food Industry
- Heavy Industry
- Commercial
- Energy sector

#### Savings calculated by designated consumers:

In the 2018 report: 51.7 million kWh or 8.5 billion MNT In the 2019 report: 67.7 million kWh or11.2 billion MNT In the 2020 report: 98.1 million kWh or16.2 billion MNT



#### LAW ON ENERGY SAVINGS AND IMPLEMENTATION / continued /

	Number of	Energy Audit				Energy Saving Managers				
D/C Classification	Designated Consumers	completed	In progress	Has not completed	Next audit	Appointed	Trained	Professional	Engineering department	
Buildings and facilities	74	46	9	19	14	68	60	24	34	
Energy Consumers	89	48	9	32	14	81	80	73	44	
Energy sector	34	31	9	1	14	34	30	32	34	
Total	197	125	18	52	42	183	170	129	112	

Out of **197** designated consumers, **183** which is **93** percent have appointed Energy Saving Managers. In these organizations, **143** which is **73** percent have undergone energy audits, **11** have undergone a second round of audits, and **42** are scheduled for 2022.





Energy Regulatory Commission Development Strategy



#### THE ENERGY REGULATORY COMMISSION'S MID TERM DEVELOPMENT STRATEGY

#### **VISION:**

It will be a trusted, specialized and leading organization for energy consumers and suppliers.

#### **MISSION**

Establish a regulatory system that supports reliable, efficient and environmentally friendly energy technologies and activities aimed at ensuring the sustainable development of Mongolia and the quality of life of its citizens.

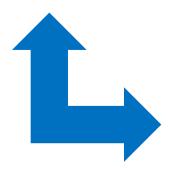
**MOTTO:** Smart regulation - the future of development

#### **OPERATIONAL PRINCIPLES:**

- 1. To be independent 4. To be fair
- 2. Respect the law 5. Respect the consumer
- 3. Be transparent 6. Be professional







#### Strategic Plan 1:

Ensuring the energy sector environment to operate according to the regulated, competitive market principles;

**Strategic Plan 2:** Regulating licensees operations based on the market oriented approaches and provide activities focused results;

Strategic Plan 3: Increasing innovation, energy supply based on advanced technique & technology, improving efficiency and benefits;

Strategic Plan 4: Adapting monitoring structure based on risks;

Strategic Plan 5: Becoming a specialized leader organization which is focused on knowledge and skills;



#### **COMMISSION ADMINISTRATION, MANAGEMENT**

The Commission implements management in the following ways in accordance with the 5th Development Strategy in order to create a skilled and creative team and improve work performance. These include:

1. To develop human resources based on knowledge, skills and qualifications to implement the goals and functions of the Commission



- A total of 11 staff members of the Commission have been studying at universities in Germany, Korea, China, Australia and the United States on master's programs in energy and business administration with scholarships from these countries.
- Special attention is paid to the development of staff qualifications, foreign language skills, productivity and other skills to address the issues facing the sector and the Commission.

To make all the internal activities of the Commission electronic to ensure its efficiency;



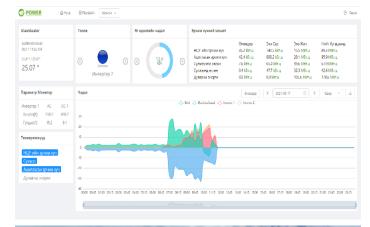
Internal system of commission meetings <a href="https://is2.erc.mn/">https://is2.erc.mn/</a>
Online commission meeting system <a href="https://meeting.erc.mn">https://meeting.erc.mn</a>
Electronic licensing system <a href="http://license.erc.mn/">http://license.erc.mn/</a>
Energy saving and audit system <a href="http://ecc.erc.gov.mn/">https://ecc.erc.gov.mn/</a>
Electronic consumer directory <a href="https://info.erc.mn/">https://info.erc.mn/</a>
Internal information and record keeping system <a href="https://able.mn/">https://able.mn/</a>
Commission's information website <a href="http://erc.gov.mn">http://erc.gov.mn</a>





#### "START THE CHANGE FROM OURSELVES" THE REGULATORY COMMISSION'S ENERGY SAVING BUILDING

With the support of International Organization, GIZ, UNDP, it became the first government agency to use energy-efficient, renewable energy.









1965

БАРИЛГЫН ЭРЧИМ ХҮЧНИЙ ГЭРЧИЛГЭЭ Бүртгэлийн дугаар: С-I-1/0001/2020 Сүхбаатар хороо, баг 6-р хороо Ж.Самбуу зип код: Эрчим хүчний хэрэгцээний ангилал Бодит үзүүлэлт A++ < 20% 39 118 кВт-цаг/(м<sup>2</sup>жил) 183844 кВт-цаг/жил Цахим хаяг: Утас 1: Утас 2: Гарчилгаз олгосон арх бүхий байгууллагын лого

2019

- > A solar panels that provides 40 percent of electricity consumption
- Automatic heating control system
- > Ventilation system with heat recirculation
- Complete LED lighting with movement sensors
- > Introductory room to promote energy saving to the public
- ➤ 3 double glazed windows, 200 mm insulation



#### **RESEARCH AND COOPERATION**

The Energy Regulatory Commission is cooperating with international organizations to operate independently and to implement licenses, tariffs, electricity sales and purchase agreements, and energy saving policies.





#### **ENHANCING GROWING ENERGY CONSUMPTION**

(Action Plan of the Government of Mongolia for 2020-2024 and National Medium Term Program 2018-2023)

#### **Generation source**

#### **Generation Sources to be built newly**

- 1. Baganuur TPP (400 MW)
- 2. Erdeneburen HPP (92 MW)
- Tavantolgoi PP (450 MW)
   Total Required Investment 566 million USD

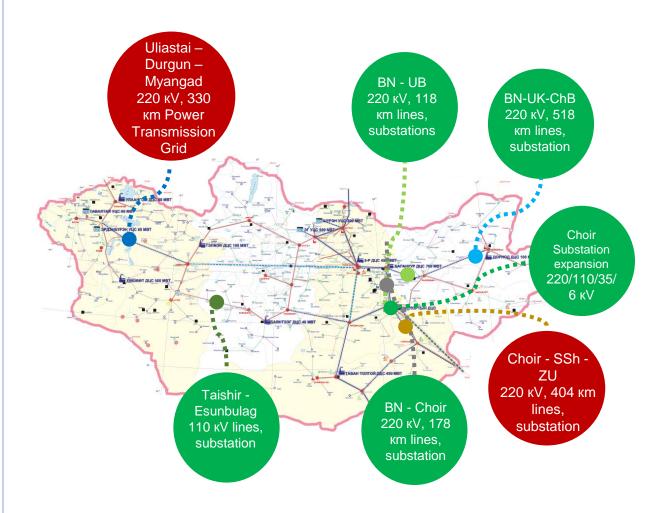
#### **Expansions**

- 1. Choibalsan TPP (50 MW)
- Amgalan TPP (50 MW)
   Total Required Investment 47 million USD
- CHPP #3 (75 MW)
   Total Required Investment 90 million USD
- New Furnace for CHPP #4 (500 tons/ hour)
   Total Required Investment 72 million USD

Totally 774.6 million USD is required.



#### **New Power Transmission Lines**



# FURTHER ACTION TO BE TAKEN

- Based on Mongolia's long-term development policy "Vision 2050", "State Policy on Energy Sector", "State Energy Policy and Medium-Term National Program", and regulated competitive market, the energy sector will be developed as efficient, economical and environmentally friendly, and uses smart technologies, and it needs to improve the level of software use and cyber security;
- Improve the financial and economic performance of the energy sector by creating a price and tariff system that meets the appropriate level of actual costs and profits, creating savings by regulating consumption, and implementing indexation;
- Implement a methodology that allows pricing and indexing in the medium and long term based on the principles of incentive-based regulation;
- Introduce a "smart system" in the supply chain of electricity distribution networks, support it with price and tariff policies to increase efficiency, reduce costs and ensure reliable operation;
- To digitalize the regulatory activities of the Energy Regulatory Commission in order to make it more transparent and efficient;
- Support the improvement of corporate governance in the energy sector and the introduction of internationally recognized strategies and new management tools;

# FURTHER ACTION TO BE TAKEN

- Calculate the structure, organization and staffing of energy companies based on norms and standards and the required amount of sales revenue;
- To ensure the independence of the activities of aimag and capital city regulatory councils
- Create investment and financial resources to support energy saving, and create conditions for the development of the ESCO market;
- Implement a system of support and incentives for citizens, business entities and organizations that have built energy-efficient buildings, manufacture and import machinery, equipment, goods and materials, and have improved energy efficiency;
- Improving the efficiency of energy end users through standard policies through the implementation of energy consumption classification, grading and labeling mechanisms for energy-efficient vehicles, equipment and household appliances;
- In order to bring Mongolia's energy sector to a new level of development, it is urgent to build new sources, fully support growing foreign consumption, and pursue a regulatory policy that encourages foreign and domestic investment and attracts their interest;

# **THANK YOU FOR** YOUR **ATTENTION**