



NATIONAL ENERGY EFFICIENCY ACTION PROGRAM OF MONGOLIA 2018-2022

ULAANBAATAR
2021



RESOLUTION OF THE GOVERNMENT OF MONGOLIA

20 September 2017

Ulaanbaatar city

No. 274

APPROVAL OF THE NATIONAL ENERGY EFFICIENCY ACTION PROGRAM

In order to implement the Action Program of the Government of Mongolia for 2016-2020, and pursuant to the Article 10.3 of the Law of Mongolian on the Development Policy and Planning and the Article 5.1.2 of the Law of Mongolia on Energy Conservation, the Government of Mongolia RESOLVES hereby:

1. To adopt “National Energy Efficiency Action Program” by Appendix.

4. To assign P.Gankhuu, Acting Ministry of Energy and the Energy Regulatory Commission /A.Tleikhan/ to provide integrated supervision and review to the implementation of the Program and report the implementation progress to the Government of Mongolia within the first quarter of each succeeding year.

Structure of the NEEAP /2018-2022/





PURPOSE of the Program is to reduce GHG emission, mitigate climate change through integrated management of conservation and efficient use of energy, and to introduce and promote use of advanced energy efficient techniques and technologies.



4.1

The following activities will be conducted to achieve the objective to “Revise the legislative framework for regulation of the energy conservation activities”:



4.1.1

Align legal documents of energy conservation and efficiency and other policy documents developed within the scope of these with other laws, legal documents and design corresponding standards, norms and normative and arrange enforcement of such documents;

4.1.2

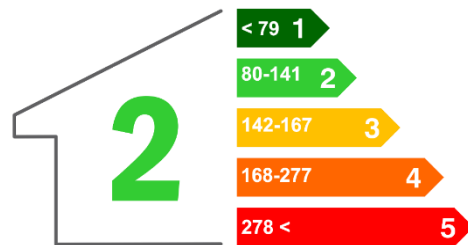
Classify and label energy consumption, and adopt monitoring regulations;

4.1.3

Adopt and implement regulation to promote and provide incentives to individuals and entities constructed energy efficient buildings, produced and imported energy efficient machineries, equipment, goods and materials and demonstrated energy conservations;

4.1.4

Create legal environment to regulate institutional arrangements of professional institutions of energy efficiency, professional services and activities.



4.2

The following steps will be taken within the scope of the Objectives “to develop and apply the information systems interrelating the energy operations and promote energy-efficient consumption”:



4.2.1

Create an information system of public and private entities demonstrating and promoting energy saving, interrelate their activities, and ensure normal and sustainable working environment of the entities and increase public awareness of such activities;

4.2.2

Develop and commission national information electronic system for consumers on energy conservation and efficient use of energy sources and enhance its coverage;



4.3

The following activities will be implemented to achieve the objective to “Strengthen the human resource capacity vital for implementation of the energy efficiency policy”:



4.3.1 Develop training programs on energy conservation and prepare trainers and involve in professional training;

4.3.2 Train energy auditors and energy efficiency managers and involve in professional training programs

4.3.3 Develop training institutions to prepare energy auditors and energy efficiency managers and support their activities;

4.3.4 Strengthen capacity of engineers and technical staff to design and construct plan energy-efficient buildings and to improve production operation efficiency



4.4

The following activities will be carried out to achieve the objective to “Increase energy conservation through improving energy efficiency of designated entities identified by the Energy Conservation Law of Mongolia”:



4.4.1

Carry out feasibility study on providing soft loans to public and private entities, business entities, individuals in introducing energy efficient technologies, goods and services, and supporting through customs and tax policy and to incorporate findings of the feasibility study into relevant laws and regulatory documents;

4.4.2

Set up regulatory arrangements to ensure energy-efficient project and measures have access to potential funding sources, and identify and deliver opportunities to get funding from international environment protection organizations;



4.5

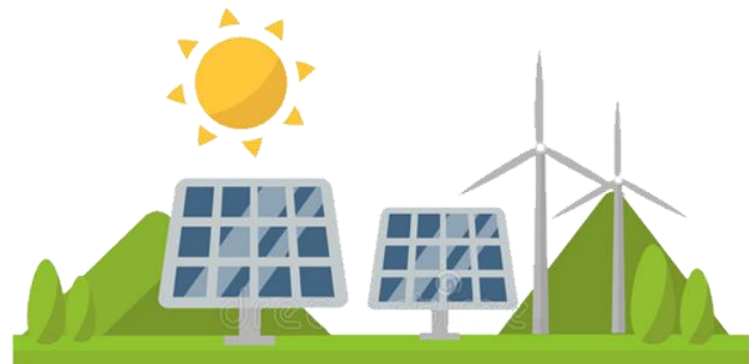
The following activities will be implemented to achieve the objective to “Reduce GHG emission and ensure the national commitments to the Paris Agreement, UN Framework Convention on Climate Change through improving efficiency of energy generation and consumption”



4.5.1 Adopt and introduce the national methodology to define energy balance of Mongolia;

4.5.2 Develop country-specific methodology to estimate GHG emission of the energy generation and consumption that are aligned with international standards and strengthen the national GHG inventory system;

4.5.3 Set up national system for measurement, reporting and verification of the GHG emission reductions achieved from energy conservations and to develop integrated database.



4.6

The following activities will be implemented to achieve the objective to “Incorporate subject about energy saving and energy efficiency into the curriculums of educational institutions of all level and sustain consumer habit of energy efficiency through information outreach and public awareness”:



4.6.1

Increase public awareness and disseminate information on importance and value of energy efficiency, organize required trainings and set the national day of energy efficiency;

4.6.2

Take measures to incorporate subject about efficiency and appropriate use of energy sources into curriculum of secondary schools;

4.6.3

Set up exhibition centre to promote energy efficient buildings, equipment and technologies and ensure consumers are provided with relevant information on regular basis.



4.7

The following activities will be implemented to achieve the objective to “Introduce energy-efficient technologies to streets, roads and squares of public use on gradual basis”:



4.7.1 Replace current lightings of streets, roads, squares and public-use areas with energy-efficient lightings on gradual basis;

4.7.2 Set and enforce energy efficiency requirements to lightings for newly planned streets, roads and squares;

4.7.3 Reduce consumption rate of all kinds of incandescent lamps.



4.8

The following activities will be implemented to achieve the objective to “Take comprehensive measures to reduce the energy consumptions and increase energy efficiency of public and local organizations and other public agencies”:

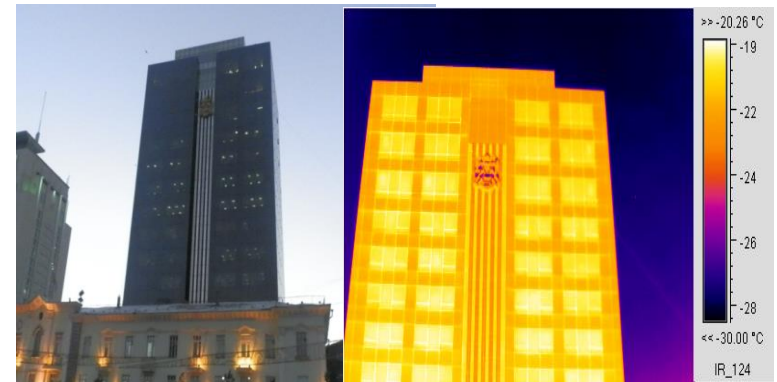


4.8.1

Set up structural arrangements to allocate annual savings from energy conservation into commitments to improve efficiency of energy uses;

4.8.2

Set criteria to have goods, works, services, and equipment purchased are energy efficient and have low-maintenance costs pursuant to the Law of Mongolia on Procurement of Goods, Works and Services with State and Local Funds.



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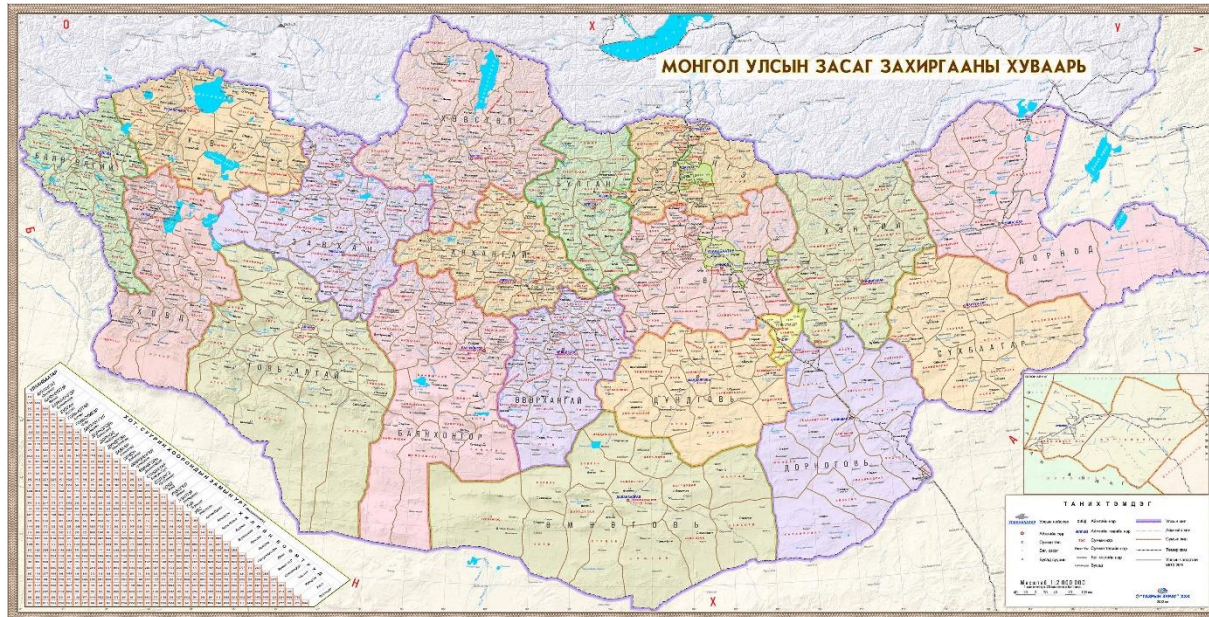
4.9

The following activities will be carried out to achieve the objective to “Design and enforce energy conservation policies for the aimags, Ulaanbaatar city, soums and districts”:



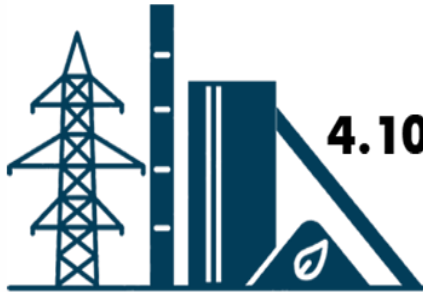
4.9.1 Identify energy efficiency policy for specific administrative units and territories and ensure such policies are incorporated into long-term strategies and major directions of socio-economic developments of aimags and the capital city, and implemented;

4.9.2 Allocate certain share of the projects and measures funded from local development funds into measures promoting energy efficiency;



4.10

The following activities will be implemented to achieve the objective “Reduce internal use of electricity and specific fuel consumption of energy generation”:



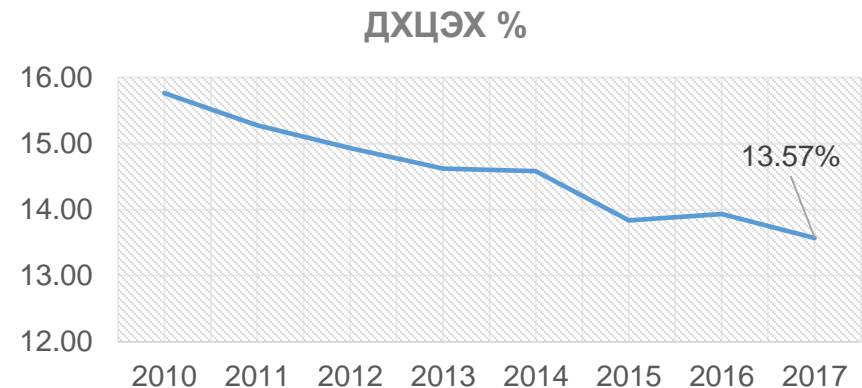
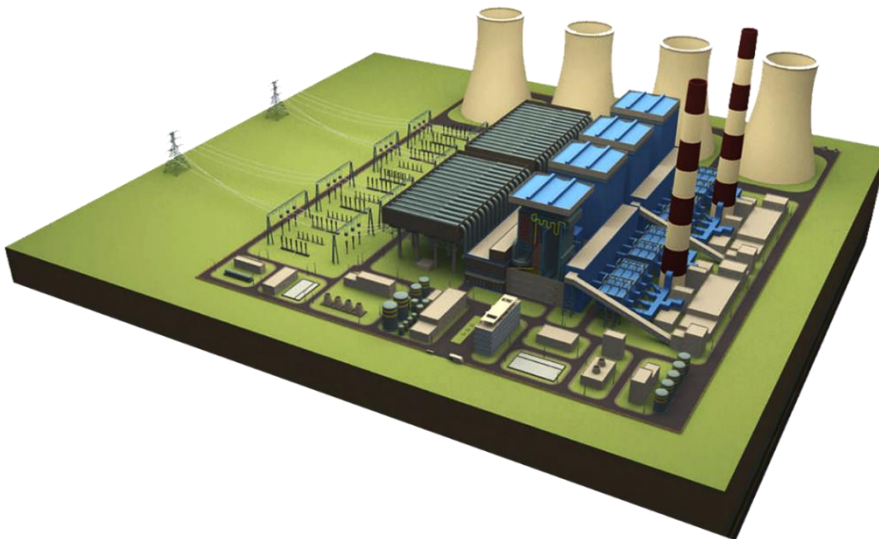
4.10.1

Define utilization rate of technological phases, and equipment regimes and shift to digital system of management and monitoring by stage, and take measures to improve efficiency rate;

4.10.2

Determine and reduce actual specific fuel consumption of power and heat generation;

4.10.3 Take measures to reduce steam and water loss of combined heat and power plants.



4.11

The following activities will be implemented to achieve the objective to “Improve energy efficiency of transmission and distribution grids and reduce electricity and heating distribution losses”:



4.11.1

Transfer management, monitoring and information system of the energy transmission, distribution and supply into digital system in phases and ensure effective structure for regime regulation is set;

4.11.2

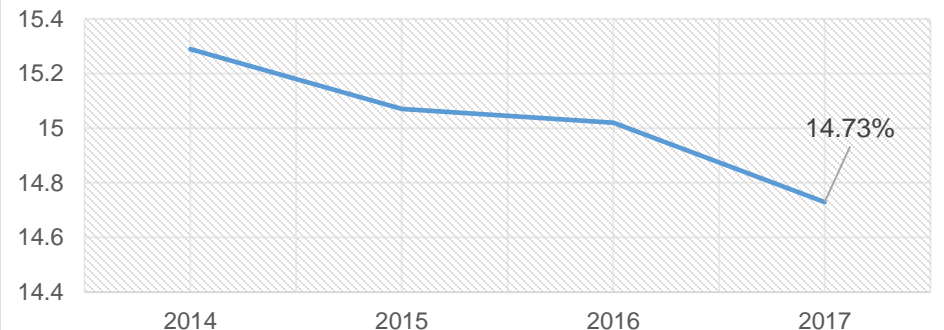
Introduce innovations and advanced technical and technological achievements into the energy sector;

4.11.3

Improve economic efficiency of integrated planning, regime and dispatching power and district heating system of the integrated system.



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4.12

The following activities will be implemented to achieve the objective to “Develop energy demand management”:



4.12.1 Take technical, economic and regulatory measures to adjust power load fluctuations of the integrated system of energy by stage;

4.12.2 Create and enforce legal environment for regulating relationships of supplying energy generated from consumer renewable sources into distribution grid

4.12.3 Carry out adjustments to heating system of residential buildings connected to district heating systems in Ulaanbaatar, Darkhan-Uul and Orkhon aimags, and ensure all energy consumers are installed with heating meters;

4.12.4 Improve quality of energy supplied to end-users.



4.13

The following activities will be carried out to achieve the objective to “Support energy conservation with tariff policy”:



4.13.1 Estimate actual costs of the heat energy and implement tariff renovation in phases;

4.13.2 Phase out completely current payment structure of energy sector that estimates heat consumption of entities and residential buildings by premise volume and area, and power consumption of households by number of people and fixed open system through metering measures;

4.13.3 Upgrade operational efficiency of energy generation, transmission, distribution, supply and dispatching regulation, and set up structure to offer incentives for achieved energy conservations;

4.13.4 Implement tariff policy that promotes and supports individuals, economic entities and institutions that achieved energy conservations through increasing energy efficiency;



4.14

The following activities will be implemented to achieve the objective to “Identify energy consumption rate of buildings and issue energy performance certificates”:



4.14.1

Develop methodologies to calculate energy consumption rate of buildings;

4.14.2

Identify and promote national criteria for energy-efficient and green (passive) buildings;

4.14.3

Carry out energy audit at construction sector in phases and identify energy consumption level and arrange issuance of labelling and certificates;

4.14.4

Label construction materials and goods based on the certificates of origin and laboratory analyses;

4.14.5

Reduce the heat loss of apartments and develop a program on the financial leverage and green mortgage in order to support the energy conservation.



4.15

The following activities will be implemented to achieve the objective to “Enforce implementation of energy efficient planning of construction sector, and advance monitoring system of the construction performance:



4.15.1 Update e norms and normative of buildings in regard to energy efficiency and ensure consistency with the international standards;

4.15.2 Take measures to ensure estimations, parameters and conclusions of energy conservation and efficiency are included into list of documents to provide at stages of monitoring of construction process and commissioning

4.15.3 Identify types of buildings to retro-fit immediately and implement measures to reduce building heat loss by 20% in phases



4.16

The following activities will be implemented to achieve the goal to “Define energy consumption norm per unit of production and services of industrial sector and reduce the energy consumption in phases”:



4.16.1

Carry out study on energy consumption per unit production of goods and services and implement measures of normalize in phases;

4.16.2

Provide producers and service providers with necessary information and recommendations on how to introduce energy conservation and efficient technologies on regular basis.

4.17

The following activities will be implemented to achieve the objective to “Introduce innovative and efficient techniques and technologies of energy into production and service sectors”



4.17.1

Identify needs of introducing equipment and machinery with the lowest energy consumption in production and business activities and enforce into practice;

4.17.2

Introduce MNS ISO-50001:2014 Energy Management System Standard in phases.

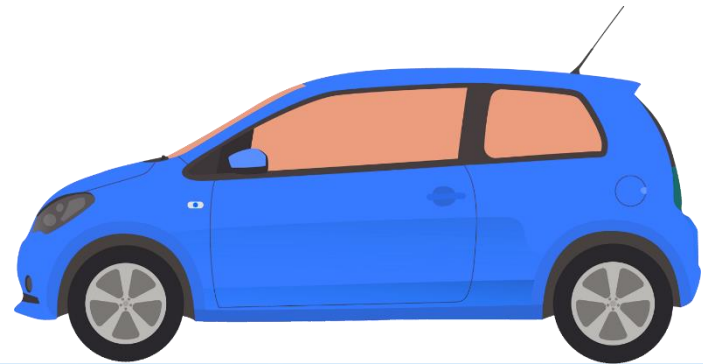
4.18

The following activities will be implemented to achieve the objective to “Design and implement policy to promote use of energy efficient vehicles with low negative impact to the environment;



4.18.1 Increase use of gas and combined fuel in auto transportation sector and to provide policy support in promoting vehicles of low level of fuel consumption;

4.18.2 Increase share of electric vehicles in public transportation sector and to introduce vehicles that operate with fuel of low adverse environmental impact



Outcomes and target indicators of the Program

6.1.3. Opportunities to introduce and use advanced, energy-efficient and environmentally-friendly technics and technologies are created.

6.1.2. Synergy of energy efficiency policies and implementation activities are achieved.;

6.1.4. Favorable conditions to implement measures promoting public education towards efficient use of energy and consumer behavior to save and appropriately use energy are developed.

6.1.
The following outcomes will be achieved upon implementation of the program.

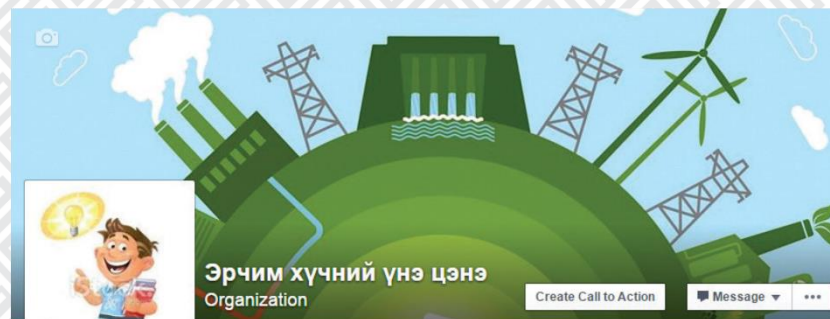
6.1.1. Comprehensive legal environment to regulate energy efficiency activities will be established

6.1.5. Environmental pollution and GHG emission from energy generation and consumption are reduced.



Thank you for you attention

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