

## Ministerial Regulation B.E. 2539 (1996)

Under the Energy Development and Promotion Act, B.E. 2535 (1992)

Translation

The Minister of Science, Technology and Environment, by virtue of Section 25 Paragraph 2 and Section 41 of the Energy Development and Promotion Act, B.E. 2535 (1992), hereby issues the Ministerial Regulations as follows:

### Clause 1

One who wishes to apply for a permit for production or expansion of regulated energy is required to submit an Application Form Phor Khor 1 which is annexed to this Ministerial Regulation.

### Clause 2

Permission to produce or expand production of regulated energy shall be made in Form Phor Khor 2 which is annexed to this Ministerial Regulation.

Permission as described in Paragraph 1 shall be valid for a period of not more than four years at a time since the date of permission.

### Clause 3

One who has obtained a permit to produce regulated energy and wishes to obtain a permit for an extended period, may submit an Application Form Phor Khor 1 not less than one hundred and twenty days before the original permit expires.

### Clause 4

Permission for further production of regulated energy shall be shown in the last item of the original permit or a new permit shall be issued.

### Clause 5

Upon receipt of an application in accordance with Clause 1 or Clause 3, and if an officer considers it necessary to request an original or copy of documents or other evidences besides those mentioned, he will notify in writing to the applicant, who will, then, be required to submit the original or a copy of the documents or evidences to the officer within a reasonable period of time.

### Clause 6

An application form for the aforementioned permit in accordance with this Ministerial Regulation shall be submitted to an officer at the Bureau of Energy Regulation and Conservation, the Department of Energy Development and Promotion, or at the Regional Office of Energy Development and Promotion in the area where that particular source of regulated energy production is located.

Given on the 26th day of September B.E. 2539 (1996)

Signed by Yingphan Manasikarn

Minister of Science, Technology and Environment

Published in the Royal Gazette, Vol.113, Part 45 Kor, dated 4th October B.E. 2539 (1996).

**Remark :-** The reason for the proclamation of this Ministerial Regulation is that, whereas the Energy Development and Promotion Act, B.E. 2535 (1992) stipulates that the obtainment and issuance of a permit for production or expansion of regulated energy production shall be in compliance with rules and procedures as stipulated in the Ministerial Regulation, and it is expedient to set up the said rules and procedures, an issuance of this Ministerial Regulation is necessary.

Registration No.....  
 Date .....  
 Signature ..... Recipient  
 (For Office Only)

**Application for Regulated Energy Production Permit**

Made at.....  
 Date.....Month.....B.E.....

- 1 I.....
- 1.1 Being Ordinary Person, Age .....Yrs. Nationality .....  
 I.D. Card / Alien Certificate No.....  
 Issued at Amphur / District.....Province.....  
 Living at House No. .... Lane/Soi ..... Road .....Moo .....  
 Tambol/Sub-District ..... Amphur/District .....Province.....  
 Postal Code ..... Tel. .... Fax .....
- 1.2 Being Juristic Person, .....  
 Registered on ..... Registration No. .... Office located at  
 No. .... Lane/Soi ..... Road .....Moo .....  
 Tambol/Sub-District ..... Amphur/District .....Province.....  
 Postal Code ..... Tel. .... Fax .....
- By .....Authorized Signature for Juristic Person of Applicant, Age ..... Yrs.  
 Nationality ..... I.D. Card/Alien Certificate No. ....  
 Issued at Amphur / District.....Province.....  
 Living at House No. .... Lane/Soi ..... Road .....Moo .....  
 Tambol/Sub-District ..... Amphur/District .....Province.....  
 Postal Code ..... Tel. .... Fax .....
- Operated by ....., Age ..... Yrs. Nationality .....  
 I.D. Card/Alien Certificate No. ....  
 Issued at Amphur / District.....Province.....  
 Living at House No. .... Lane/Soi ..... Road .....Moo .....  
 Tambol/Sub-District ..... Amphur/District .....Province.....  
 Postal Code ..... Tel. .... Fax .....

2. I wish to apply for a permit of ' production ' expansion of production of Regulated Energy to operate ..... at (name of place) ..... Located at ..... Lane/Soi ..... Road .....Moo ..... Tambol/Sub-District ..... Amphur/District Province..... Postal Code ..... Tel. .... Fax ..... With following details :-

2.1 Generators used for Regulated Energy Production are

- Diesel Engine     Steam Engine     Others (Specify) ..... as depicted in a list of engines used for Regulated Energy Production, and data on fuel consumption and environment annexed to this application.
- 2.2 Method of Regulated Energy Production is  
 Direct Connection     Combined Energy Production     Others (Specify) .....
- 2.3 Raw or Natural Materials used for fuel are  
 (1) ..... (2) ..... (3) .....
- 2.4 Total investment in Regulated Energy Production is ..... Baht and operating cost of production (e.g. fuel, yearly maintenance, personnel, insurance fee, etc.), averages ..... Baht per kWh.
- 2.5 Production of Regulated Energy is for  
 Own use     Contingency Reserve     Sale
- 2.6 In case of Production for sale (Details attached as necessary) Sold to .....  
 At a rate of ..... Baht per kWh.
- 2.7 Controller of Regulated Energy Production is ..... Qualification .....  
 Holder of License of Control Engineer, in category of (if any) ..... Registration No. ....
3. With this application, I have enclosed the following documents:
- (1) A copy or Photostat copy of a registration certificate, objectives, and authorized signatures for juristic person of an applicant, made for no longer than six months, in case the applicant is a juristic person.
  - (2) A letter of authorization in an official form, in case an applicant is authorized to submit an application.
  - (3) A copy or Photostat copy of a house registration, I.D. Card or Alien Certificate of the authorized and the authorizer.
  - (4) A location map of a place of Regulated Energy Production in 2 copies.
  - (5) Diagrams of wiring and Regulated Energy Distribution in 2 copies.
  - (6) Capacities of installed energy consumption of engines used that consumed Regulated Energy at each source of Regulated Energy Production in 2 copies.
  - (7) A copy or Photostat copy of a license of control engineer for the controlling engineer (if any).

(Signature) ..... (Applicant)  
 (.....)

**Remark:-** Mark / in blocks  in front of required text.

1. Particulars of machines and equipments for measurement and prevention, used in production of Regulated Energy.

1.1 Generators

Particulars	Machine No.1	Machine No.2	Machine No.3
Type (Diesel, Steam, Gas Trbine, Steam Turbine, etc.)			
H.P.			
Speed of engine (RPM)			
Type of fuel used (Diesel, Firewood, etc.)			
Number of cylinders or stages			
Year of Installation (B.E.)			
Engine condition when installed (%)			
Name of manufacturer			
Engine No.			
Present engine condition (%)			
Country of manufacturer			
Remark			

1.2 Electricity Generator

Particulars		Generator No.1	Generator No.2	Generator No.3
Specification Capacity	KW			
	KWA			
Voltage (Volt)				
Current (Ampere)				
Speed of engine (RPM)				
System (Phase)				
Frequency (RPS)				
Power Factor (%)				
Year of Installation (B.E.)				
Engine condition when installed (%)				
Name of manufacturer				
Engine No.				
Present engine condition (%)				
Country of manufacturer				
Remark				

1.3 Specifications and capacities of measuring and preventing equipment attached to generator.

Particulars		Generator No.1	Generator No.2	Generator No.3
Current Meter (Ampere)				
Voltage Meter (Volt)				
Power Meter (kW)				
Frequency Meter (RPS)				
Output Meter(kWh)				
Fuse (Ampere)				
Cut out Switch Automatic	(Ampere)			
	(Volt)			
Relay to prevent over current (Ampere)				
Relay for over voltage (Volt)				
Relay for over low voltage (Volt)				
Relay for reverse current (Watt)				
Relay for speed (RPS)				
Other (Specify)				

1.4 Particulars of expenditure and utilization of Regulated Energy Production

Particulars		Generator No.1	Generator No.2	Generator No.3
Cost (Baht)				
Production Cost (Baht per kWh)				
Power Meter (kW)				
Nature of Utilization	Own Production			
	For Reserve			
	For Distribution			
Period of Use (Clock)				

## 2. Data on Fuel Consumption and Environment of Regulated Energy Production

### 2.1 Data on Fuel Consumption

#### 2.1.1 Types and Volume of Fuel Consumption

Type of Fuel	Volume per Year		
	Machine No. 1	Machine No. 2	Machine No. 3
Natural Gas (thousand cu.ft.)			
High Speed Diesel (thousand litres)			
Low Speed Diesel(thousand litres)			
Fuel Oil 1st Type(thousand litres)			
Fuel Oil 2nd Type (thousand litres)			
Fuel Oil 3rd Type (thousand litres)			
Fuel Oil 4th Type (thousand litres)			
Local Coal (thousand MT)			
Imported Coal (thousand MT)			
Others (specify)			

2.1.2 In case of usage of local or imported coal and other types of fuel besides oil and natural gas, please specify heat factor, sulfur content and ash content (if no usage of mentioned fuels, skip to 2.2)

Type of Fuel	Heat Factor (Kcal/Kg)	Sulfur Content (%)	Ash Content (%)
Local Coal			
Imported Coal			
Others (specify)			

2.2 Environmental Data on Regulated Energy Production (except for manufacturers mentioned in ending Remark)

#### 2.2.1 Data on Exhaust Air Funnel

Particulars	Generator No. 1	Generator No. 2	Generator No. 3
Height of funnel above ground meter)			
Inside diameter of funnel (meter)			
Outside diameter of funnel (meter)			
Exhaust air velocity within funnel (meter per second)			
Exhaust air volume (cu.m. per second)			
Exhaust air (Degree Celsius)			

## 2.2.2 Data on control and prevention of air pollution

### 2.2.2.1 Control and prevention of air pollution

- Not applicable  Applicable, i.e.  
 Choose to use clean fuel  
 Increase funnel height  
 Install polluted air control system  
 Other (specify)

### 2.2.2.2 Data on control and prevention of air pollution

Type of Control System	Generator No. 1		Generator No. 2		Generator No. 3	
	Controlled Polluted substances	Efficiency (%)	Controlled Polluted substances	Efficiency (%)	Controlled Polluted substances	Efficiency (%)
Electrostatic Precipitator						
Cyclone						
Bag House Filter						
Flue Gas Desulfurization (FGD)						
Low NoX Burner						
Two Stage Burner						
Other (specify)						

## 2.2.3 Data on release of polluted substances through exhaust air funnel.

Types of Polluted Substances	Quantity of Polluted Substances (Mg Per Cu.M.) Compared at 25°C pressure at 1 atmosphere					
	Generating Capacity of Regulated Energy					
	Below 10 MW			Over 10 MW		
	Generator No. 1 Excess air _____ (%)	Generator No. 2 Excess air _____ (%)	Generator No. 3 Excess air _____ (%)	Generator No. 1 Excess air _____ (%)	Generator No. 2 Excess air _____ (%)	Generator No. 3 Excess air _____ (%)
Sulfur Dioxide (SO <sub>2</sub> )						
Oxide of Nitrogen ((NO+NO <sub>2</sub> ))						
Particulate						
Carbon monoxide(CO)						
Sulfur trioxide(SO <sub>3</sub> )	Data Not Required					
Carbon Dioxide (CO <sub>2</sub> )	Data Not Required					

**Remark :-** Following applicants for designated energy production are not required to fill in item 2.2 :

- 1.1 One who use only diesel engine, with a total generating capacity of less than 4 MW.
- 1.2 One who use fuel from agricultural surplus, with a total capacity of less than 2.4 MW.

**Department of Energy Development and Promotion  
Regulated Energy Production Permit**

No...../.....

\_\_\_\_\_

This permit is given to

\_\_\_\_\_

To prove a permission to [ ] produce [ ] expand production of regulated energy in accordance with Section 25 of the Energy Development and Promotion Act B.E. 2535 at a location of regulated energy production.

Name.....

Located at .....Lane/Soi.....Road.....Moo.....

Sub-district/Kwaeng.....Distric/Khet .....

Province.....Postal Code.....

Tel.....Fax.....

To operate.....

With following details.....

.....  
.....  
.....  
.....  
.....

This permit is valid on the date of issue until Date ..... Month ..... B.E. ....

Given on the date of ..... Month ..... B.E. ....

(Signature).....

Position.....

Authorized Person

(Reverse Side)

Next Permission of Regulated Energy Production

1st Permission

This Permit is valid until

Date.....Month.....B.E.....

(Signature).....

Position.....

Authorized Person

...../...../.....

1st Permission

This Permit is valid until

Date.....Month.....B.E.....

(Signature).....

Position.....

Authorized Person

...../...../.....

**Conditions**

- 1 This Permit will be displayed openly at a location of regulated energy production.
- 2 This permit is usable only at a location of regulated energy production as described herein.
- 3 A permitted person must obtain an approval by the Department of Energy Development and Promotion prior to removal, change or modification of equipment, being used in regulated energy production, from that appeared in an appendix to its application form.
- 4 A permitted person shall maintain equipment used in regulated energy production as well as their measuring devices in functional condition at all times.
- 5 Upon receipt of a form of annual report from the Department of Energy Development and Promotion, a permitted person shall fill in and send it, with relevant documents as described therein, to the Department of Energy Development and Promotion within the month of January of the following year.
- 6 In case of violation or no compliance with above conditions of Clause 1 to Clause 4, the Department of Energy Development and Promotion may give a warning, suspend or revoke a permit when considered suitable.

**Warning**

The permitted person shall submit an application for renewal of a permit of regulated energy production, not less than 120 days prior to its expiry date.

**Disclaimer**

This translation is intended to help Thais or foreigners to understand Thailand laws and regulations only, not to use as references, because it is only the original Thai version of legislation that carries legal effect. [www.ThaiLaws.com](http://www.ThaiLaws.com), therefore, shall not be held responsible in any way for any damage or otherwise the user may incur as a result of or in connection with any use of this publication for any purposes. It's the responsibility of the user to obtain the correct meaning or interpretation of this publication or any part thereof from Thai version or by making a formal request to the appropriate or related authorities.