
ONLINE ENERGY CONSUMPTION CALCULATOR USER MANUAL

RENEWABLE ENERGY DEPARTMENT



1. Log onto the ERC website (www.erc.go.ke). Scroll down and click on the link titled **ONLINE SERVICES** under Quick Links to access the ERC portal.

The screenshot displays the ERC website interface. At the top, a green navigation bar contains the following links: LICENSING INFORMATION, ONLINE SERVICES, PROCUREMENT, CAREERS, and PUMP PRICES. Below this is a yellow banner featuring a large image of a power plant with steam rising from its chimneys. To the right of the image is a 'Latest News' section with three entries: a Thursday (Feb 25, 2016) article about a workshop in Nakuru, a Sunday (Feb 14, 2016) article about pump prices, and a Friday (Feb 12, 2016) article about consultancy services. Below the banner is a 'PUMP PRICES' section with a date range of Feb 15th, 2016 - Mar 14th, 2016 and a list of prices for various fuels. The main content area is divided into three columns: 'ELECTRICITY' (yellow background), 'PETROLEUM' (blue background), and 'RENEWABLE ENERGY' (green background). Each column has a sub-section for 'OUR MANDATE', 'QUICK LINKS', and 'USEFUL LINKS'. In the 'QUICK LINKS' section under 'PETROLEUM', the 'ONLINE SERVICES' link is highlighted with a red rectangle. The 'USEFUL LINKS' section under 'RENEWABLE ENERGY' includes links to the 'RENEWABLE ENERGY PORTAL' and the 'MINISTRY OF ENERGY AND PETROLEUM'. At the bottom left, there is a graphic with the words 'SUPPORT', 'ADVICE', and 'ASSISTANCE' on blue blocks.

LICENSING INFORMATION | ONLINE SERVICES | PROCUREMENT | CAREERS | PUMP PRICES

→ Latest News

THU
Feb
25
2016
Nakuru Sensitization Workshop, 2nd March 2016

SUN
Feb
14
2016
Pump prices fall in line with trends in refined petroleum products

FRI
Feb
12
2016
Consultancy Services for the 6th Cost of Service Study in the Electric Power Sub-Sector

PUMP PRICES Prices for dates: Feb 15th, 2016 - Mar 14th, 2016 :
Kerosene: 43.2 >> Icebarania Super: 90.56, Diesel: 72.13, Karosana: 43.62 >> Isiolo Super

ELECTRICITY
→ OUR MANDATE
SUPPORT
ADVICE
ASSISTANCE

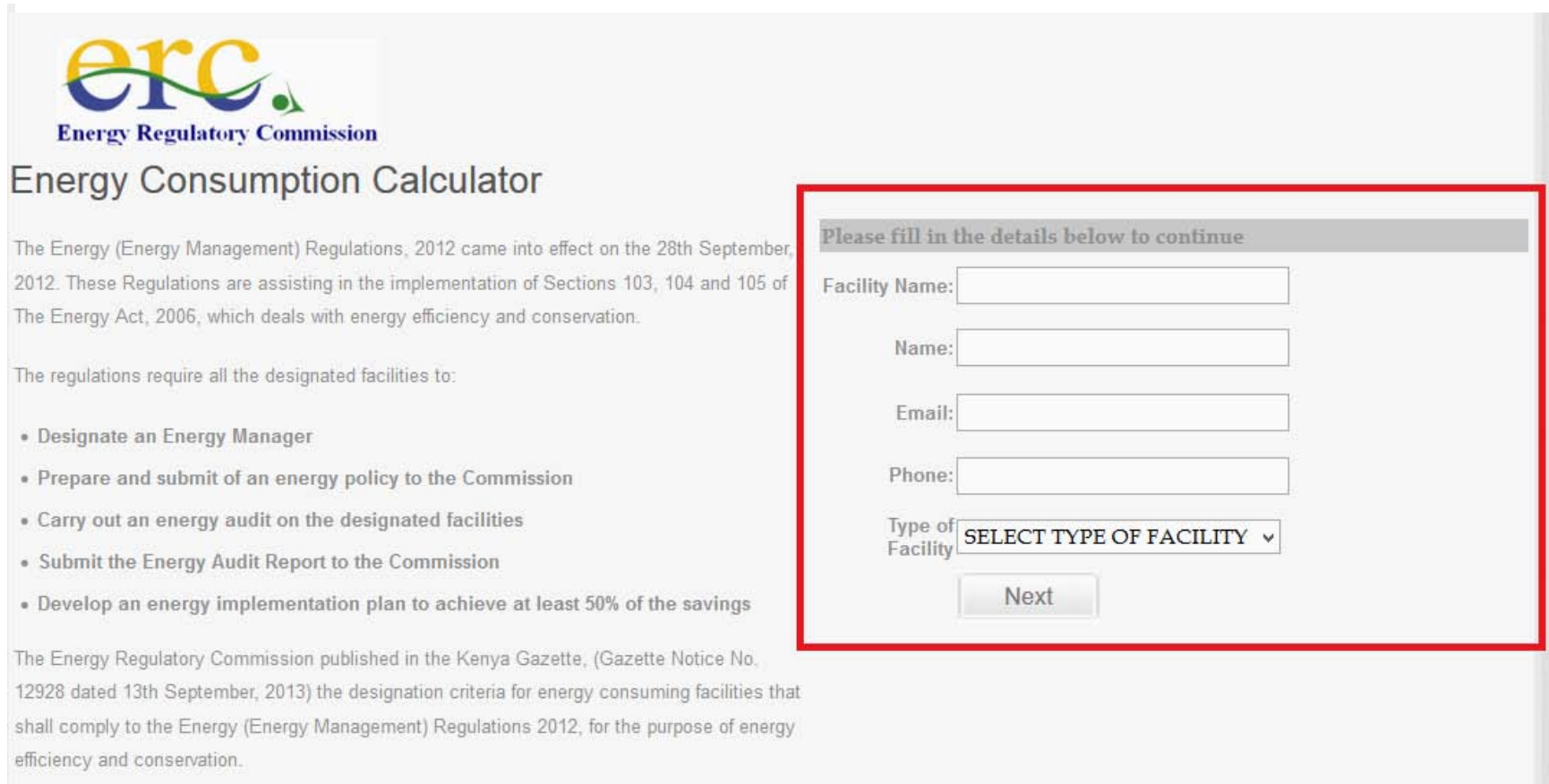
PETROLEUM
→ QUICK LINKS
ONLINE SERVICES
REGULATION ENFORCEMENT


RENEWABLE ENERGY
→ USEFUL LINKS
RENEWABLE ENERGY PORTAL
MINISTRY OF ENERGY AND PETROLEUM

2. Click on the **Calculator** link on the menu

The screenshot displays the ERC website interface. At the top left is the ERC logo with the text "Energy Regulatory Commission". Below the logo, the text "ERC Portal" is visible. A horizontal navigation menu contains the following items: "Home", "About Us", "Survey", "Complaints", "Report Corruption", and "Energy Designation Calculator". The "Energy Designation Calculator" link is highlighted with a red rectangular box. Below the navigation menu, there are two main content areas. The left area is titled "Home" and contains the text "Licensing Home.". The right area is titled "Registered Users Login" and contains a login form with fields for "User Name:" and "Password:", a "Login" button, and links for "Forgot My Password" and "Register". Below the login area is a section titled "Licences" which lists two categories: "Electricity" (with sub-items: Electrical Contractors, Electricians, Power Business Licence, Power Permit) and "Petroleum" (with sub-items: Construction Permits, LPG, Refining).

3. Fill in the Facility Name, Contact Person's Name, Email and Phone Number, and select the type of facility in the given form. Click on **Next** to continue.




Energy Regulatory Commission

Energy Consumption Calculator

The Energy (Energy Management) Regulations, 2012 came into effect on the 28th September, 2012. These Regulations are assisting in the implementation of Sections 103, 104 and 105 of The Energy Act, 2006, which deals with energy efficiency and conservation.

The regulations require all the designated facilities to:

- Designate an Energy Manager
- Prepare and submit of an energy policy to the Commission
- Carry out an energy audit on the designated facilities
- Submit the Energy Audit Report to the Commission
- Develop an energy implementation plan to achieve at least 50% of the savings

The Energy Regulatory Commission published in the Kenya Gazette, (Gazette Notice No. 12928 dated 13th September, 2013) the designation criteria for energy consuming facilities that shall comply to the Energy (Energy Management) Regulations 2012, for the purpose of energy efficiency and conservation.

Please fill in the details below to continue

Facility Name:

Name:

Email:

Phone:

Type of Facility:

4. Select the consumption period (either one month only or for the whole year) whose total energy consumption you want to determine

Energy Consumption Designation Calculator

Select the period of energy consumption (either Monthly or Annual), and enter the amount(s) of energy consumed for the different forms of energy to calculate the total Energy consumption.

Consumption Period

Monthly Energy Consumption

Electricity (kWh)

Diesel (L)

Biodiesel (L)

Wood (Kg)

LPG (Kg)

IDO (L)

HFO (L)

Fuel Oil (L)

Anthracite Coal (Kg)

Lignite Coal (Kg)

Bituminous Coal (Kg)

Charcoal (Kg)

Bagasse (Kg)

Calculate

5. For Monthly Consumption, enter the energy consumption for the form(s) of energy your facility uses and then Click on the **Calculate** button to find out the total energy consumption.

Energy Consumption Designation Calculator

Select the period of energy consumption (either Monthly or Annual), and enter the amount(s) of energy consumed for the different forms of energy to calculate the total Energy consumption.

Consumption Period

Monthly Energy Consumption

Electricity (kWh)

Diesel (L)

Biodiesel (L)

Wood (Kg)

LPG (Kg)

IDO (L)

HFO (L)

Fuel Oil (L)

Anthracite Coal (Kg)

Lignite Coal (Kg)

Bituminous Coal (Kg)

Charcoal (Kg)

Bagasse (Kg)

5.1. The Total Energy Consumption will be displayed indicating the type of energy consumer (Low, Medium or High)

The screenshot shows a web application window titled "Kawi Yetu's Total Energy Consumption". The window contains the ERC logo and the text "Energy Regulatory Commission". Below the logo, it says "Energy Consumptio". There is a section for "Select the period of energy consumption" with a dropdown menu set to "Monthly". Under "Monthly Energy Consumption", there are input fields for "Electricity (kWh)" with the value "5000" and "Diesel". A "Calculate" button is present. The main content area displays the following information:

erc
Energy Regulatory Commission

THE ENERGY (ENERGY MANAGEMENT) REGULATIONS 2012
COMPLIANCE ADVISE

Facility Name: Kawi Yetu
Email: info@kawi.co.ke
Date: 03-02-2016

Your average Energy Consumption is **5,000.00 kWh** which translates to an annual consumption of **60,000.00 kWh**. This falls in the category of **Low Energy Consumers** and as such you are not required by law to comply with the Energy (Energy Management) Regulations 2012

For more information the regulations are available in the ERC website (www.erc.go.ke) or may be purchased from the Government Printer. You may contact us if you require any clarifications on this matter via the below contacts.

Director General
The Energy Regulatory Commission
1st Floor, Eagle Africa Centre, Longonot Road, Upper Hill
P.O. Box 42681 - 00100 GPO, Nairobi, Kenya
Telephone: +254-020-2847000/200 Fax: +254-20-2717603
E-mail address: info@erc.go.ke

At the bottom right, there are "Print" and "Close" buttons. On the right side of the window, there is a partially visible table with columns for "Petroleum" and "Industrial Diesel".

6. For Annual Consumption, enter the energy consumption for the form(s) of energy your facility uses and then Click on the **Calculate** button to find out the total energy consumption.

Select the period of energy consumption (either Monthly or Annual), and enter the amount(s) of energy consumed for the different forms of energy to calculate the total Energy consumption.

Consumption Period

Annual Energy Consumption

	January	February	March	April	May	June	July	August	September	October
Electricity (kWh)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Diesel (L)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Biodiesel (L)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Wood (Kg)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
LPG (Kg)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
IDO (L)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
HFO (L)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Fuel Oil (L)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Anthracite Coal (Kg)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lignite Coal (Kg)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Bituminous Coal (Kg)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Charcoal (Kg)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Bagasse (Kg)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

6.1. The Total Energy Consumption will be displayed indicating the type of energy consumer (Low, Medium or High)

Select the period of energy consumption (either Monthly or Annual), and enter the amount(s) of energy consumed for the different forms of energy to calculate the total Energy consumption.


Consumption Period **Monthly**

Monthly Energy Consumption

Electricity (kWh)	1000
Diesel (L)	
Biodiesel (L)	
Wood (Kg)	
LPG (Kg)	
IDO (L)	
HFO (L)	
Fuel Oil (L)	
Anthracite Coal (Kg)	
Lignite Coal (Kg)	
Bituminous Coal (Kg)	
Charcoal (Kg)	
Bagasse (Kg)	
TOTAL(kWh)	1,000.00

Calculate

Techno-Smart's Total Energy Consumption



erc
Energy Regulatory Commission

THE ENERGY (ENERGY MANAGEMENT) REGULATIONS 2012 COMPLIANCE
ADVISE

Facility Name: Techno-Smart
Email: nickbukachi@gmail.com
Date: 18-04-2016

Your average Energy Consumption is **1,000.00 kWh** which translates to an annual consumption of **12,000.00 kWh**. This falls in the category of **Low Energy Consumers** and as such you are not required by law to comply with the Energy (Energy Management) Regulations 2012

For more information the regulations are available in the ERC website (www.erc.go.ke) or may be purchased from the Government Printer. You may contact us if you require any clarifications on this matter via the below contacts.

Director General
The Energy Regulatory Commission
1st Floor, Eagle Africa Centre, Longonot Road, Upper Hill
P.O. Box 42681 - 00100 GPO, Nairobi, Kenya

6.2. Use the horizontal scrollbar and scroll right to see the total energy consumption for each month.



Energy Regulatory Commission

Energy Consumption Calculator

Select the period of energy consumption (either Monthly or Annual), and enter the value(s) for the different forms of energy to calculate the total Energy consumption.

Consumption Period ▾

Sub-bituminous Coal (Kg)	Lignite Coal (Kg)	Bituminous Coal (Kg)	Charcoal (Kg)	Bagasse (Kg)	Total (kWh)
					9,620.00
					11,911.36
					5,397.00
					4,488.00
					6,832.00
					8,299.00
					12,842.48
					3,037.80
					6,510.00
					6,911.40
					4,030.12
					6,906.64

Horizontal scrollbar

