

CORE INTERFACES IN GHANA ENERGY ACCESS (GHEA) TOOLKIT

1. TOOLKIT HOME PAGE

Ghana Energy Access Toolkit

Home Toolkit Sign Up Sign In Forums About us

Welcome to GhEA Toolkit

Official home page

An online Energy Information tool for planning renewable and non-renewable energy access from community to national scale.

[Tools & Dataset](#)

GhEAT 2.0 Released

The latest version of GhEA Toolkit is released. This version can be accessed online and compatible with all OS. Click on tools and Dataset button to visit the applications page.

Development Team

- TEC Development Team
- Join Development Team
- Consultancy Services

Quick Links

- Getting started with toolkit
- Recent forum posts
- Quick video

Sponsors

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2. TOOLS AND DATABASE WINDOW

The Ghana Energy Access Toolkit is a set of interactive tools for monitoring and evaluating energy access and renewable energy (RE) resources in Ghana. The platform presents both spatial and attribute data in a GIS context as well as statistical data. The tool is intended to inform and stimulate policies designed to attract public and private investment in the RE sector of Ghana.




Get access to national energy data for your energy related analysis.

Tools & Dataset


Renewable Energy Resources
 Wind, Solar and Other RE potential


Energy Access Database
 Power Generation, Electricity Access & Fuels


Electricity Access Map
 Community Access to Electricity


LPG Access Map
 LPG Stations and Access


Energy Access Trendline
 Electricity and LPG Trends


GHEA Toolkit
 Update Datasets and Perform Analysis etc


User Manual
 View user manuals & documentation


GHEAT online forum
 Join the discussion and find answers you need.

Notifications

Electricity And LPG Trendlines

Electricity Access Map
 Community Access to Electricity

LPG Access Map
 LPG Access Maps

Renewable Energy Resources
 Wind, Solar and RE Potential

Energy Access Database
 Power Generation, Electricity and LPG Access, Fuels

Help and User Information

3. CORE GHEA TOOLKIT APPLICATION

The screenshot shows the 'Energy Commission - Ghana Energy Access Toolkit' application window. The title bar includes standard window controls (minimize, maximize, close) and the text 'Energy Commission - Ghana Energy Access Toolkit'. The menu bar contains 'File', 'Modules', 'Manage', 'Reports', 'Options', 'Window', and 'Help'. The toolbar features icons for 'Welcome', 'Elect. Access Map', 'LPG Access Map', 'Renewables', 'Geo-Database', 'Energy Calculator', 'Energy Access Rates', 'Trend Analysis', and 'Help Center'. A 'Home' tab is visible in the browser-like interface.

The main content area displays a large banner with the text 'GHANA ENERGY ACCESS TOOLKIT' in yellow, 'VERSION 1.0.0.0' in black, and a background image of a bright sun over a green field. Below the banner are six circular icons representing different energy concepts: a solar panel, two blue LPG gas cylinders, a sun and wind turbines, a glowing lightbulb, a dam, and a pie chart.

At the bottom of the application, a status bar reads: 'Connected to GHEADB on localhost | User: master | Role: ADMINISTRATOR | User Group: ENERGY COMMISSION'.

4. RENEWABLE ENERGY WINDOW

The screenshot displays the 'Energy Commission - Ghana Energy Access Toolkit' software. The main window is titled 'Renewables' and shows a map of Ghana with various energy-related layers. The 'Map Layers' panel on the left includes the following checked items: Wind Sites, Radiation Map, Mini Hydro Sites, 50 MW Wind Sites, Volta Lake, 161kV National Transmission, and Country Boundary. The map shows a network of orange lines representing the 161kV National Transmission Lines, with several locations labeled: Fuller, Kokuma, Dada, Amanfrom, Wenuso, Hohoe (GWC), Boumfoum, Nworanae, Asemkwo, Aplaku, and Loloaya. The status bar at the bottom indicates 'Ready.' and provides coordinates 'N: 100807.819585284 | E: 542001.112245497'. The bottom-most status bar shows 'Connected to GHEADB on localhost | User: master | Role: ADMINISTRATOR | User Group: ENERGY COMMISSION'.

5. COMMUNITY-ELECTRICITY ACCESS WINDOW

Energy Commission - Ghana Energy Access Toolkit

File Modules Manage Reports Options Window Help

Welcome Elect. Access Map LPG Access Map Renewables Geo-Database Energy Calculator Energy Access Rates Trend Analysis Help Center

Home Geo-database Renewables Energy Calculator Power Plants & Solar Facilities Electricity Access Map Energy Access Charts

TOC RE Layers Tools

Map Layers

- UnElectrified
- Electrified
- All Regions

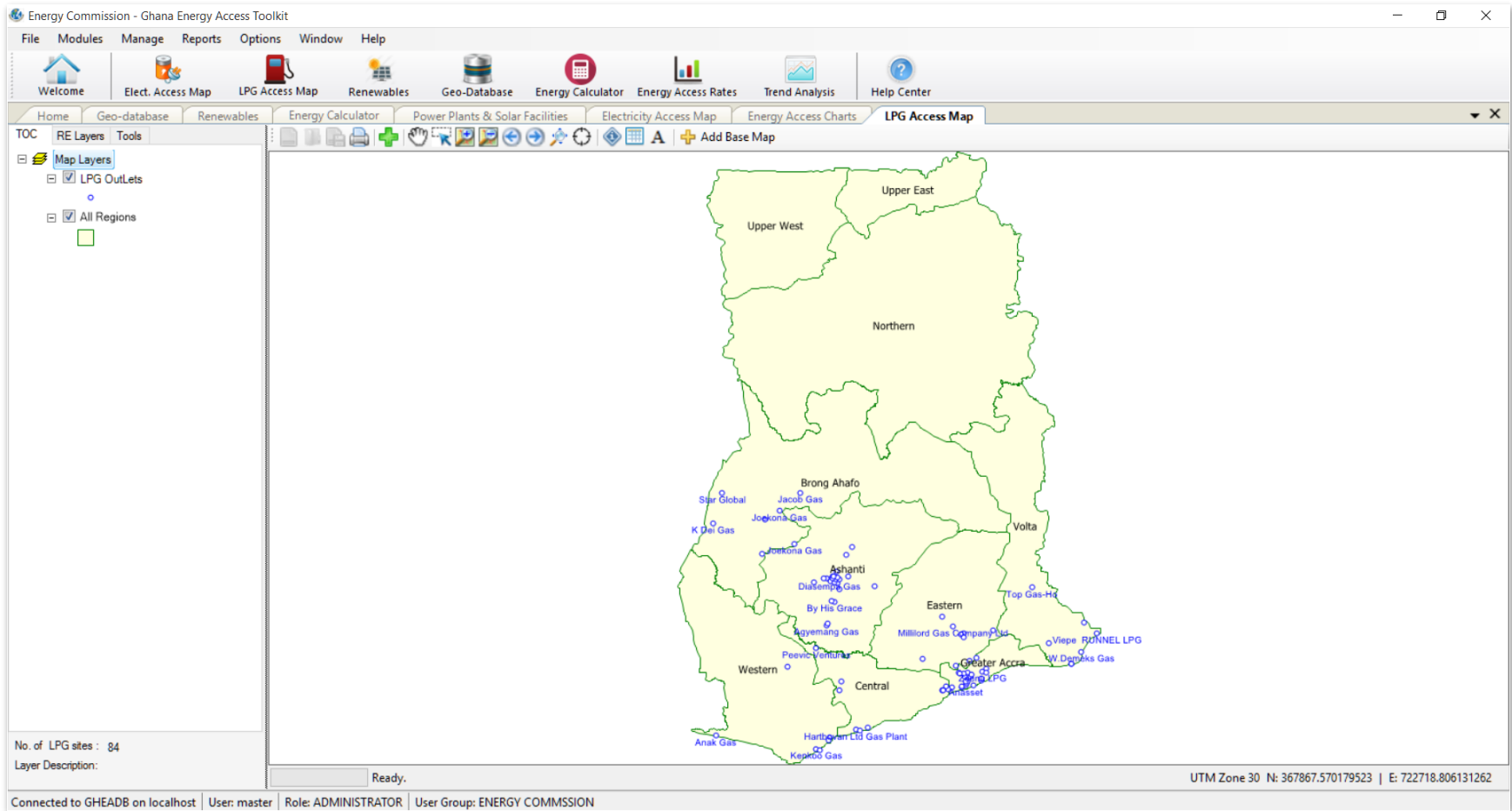
No. of communities : 1834
 Unelectrified : 596
 Electrified : 1238
 Layer Description :

Ready.

UTM Zone 30 N: 190769.131593766 | E: 1161766.90767067

Connected to GHEADB on localhost | User: master | Role: ADMINISTRATOR | User Group: ENERGY COMMISSION

6. LPG ACCESS WINDOW



7. DATA CAPTURE WINDOW

Energy Commission - Ghana Energy Access Toolkit

File Modules Manage Reports Options Window Help

Welcome Elect. Access Map LPG Access Map Renewables Geo-Database Energy Calculator Energy Access Rates Trend Analysis Help Center

Home Geo-database Renewables Energy Calculator **Power Plants & Solar Facilities**

Power Generation Plants Grid Connected Solar Power Others Solar Powered Facilities

of 14 Add Power Plant Delete Power Plant Edit Power Plant Search Refresh

Plant Name	Region	Location	Generation Type	Fuel Type	Installed Capacity (MW)	Available Capacity (MW)	Latitude	Longitude
Akosombo Generation Station	Eastern	Akosombo	Hydro	Water	1020	900	6.299973	0.059465
Kpong Generation Station	Western	Kpong	Hydro	Water	160	140	6.119995	0.125
Takoradi Power Company (TAPCO) Plant	Western	Takoradi	Thermal	LCO/Natural Gas	378	300	4.97157	-1.658613
Takoradi International Company (TICO)	Western	Takoradi	Thermal	LCO/Natural Gas	252	200		
Sunon Asogli Power Plant	Western	Kpone	Thermal	Natural Gas	220	180		
Cenit Energy Plant	Greater Accra	Tema	Thermal	LCO/Natural Gas	126	110		
Tema Thermal 1 Power Plant (TT1PP)	Greater Accra	Tema	Thermal	LCO/Natural Gas	126	110		
Mines Reserve Plant (MRP)	Greater Accra	Tema	Thermal	Diesel	85	80		
Tema Thermal 2 Power Plant (TT2PP)	Brong Ahafo	Tema	Thermal	Natural Gas	49.5	45		
Bui Power Generation Station	Brong Ahafo	Brong Ahafo/Northern	Hydro	Water	400	342	8.278625	-2.235801
Takoradi T3	Western	Takoradi	Thermal	LCO	132	120		
Effasu Power Barge	Western	Effasu	Thermal	Natural Gas	125	100		
Genser Power - IPP	Greater Accra	Tema	Hydro	LPG	5	2.1		
VRA Solar Plant	Upper East	Navrongo	Solar	Sunshine	2.5	1.9		

GENERATION BY PLANT

1 of 13 Add Delete Edit

YEAR	Generation By Plant (GWh)
2000	5,557
2001	5,524
2002	4,178
2003	3,211
2004	4,404
2005	4,718
2006	4,690
2007	3,104
2008	5,254
2010	5,961
2011	6,495
2012	6,950
2013	562

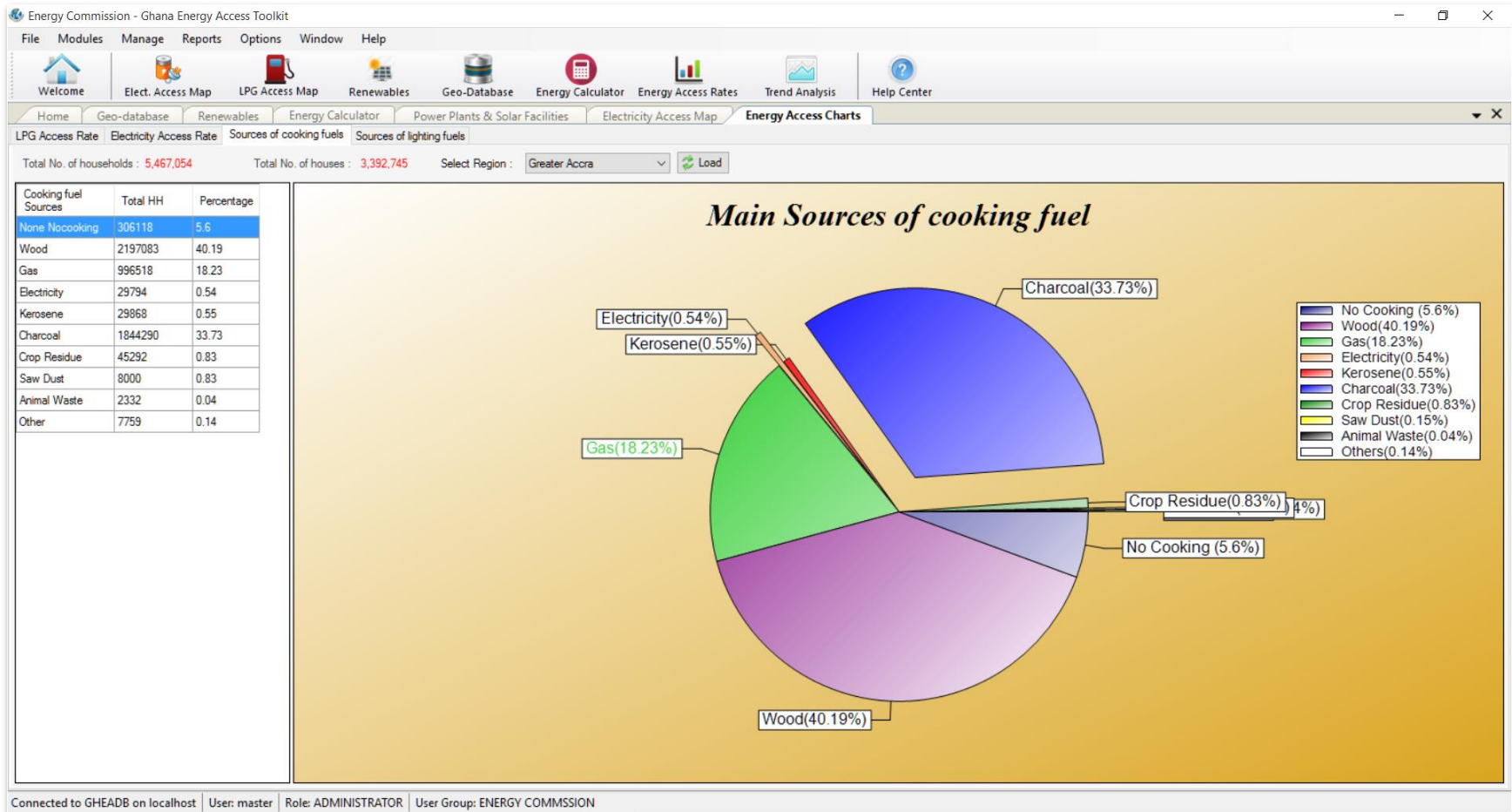
Existing Proposed: Updated By:

Date Inserted: Inserted By:

Date Updated:

Connected to GHEADB on localhost | User: master | Role: ADMINISTRATOR | User Group: ENERGY COMMISSION

8. ANALYSIS WINDOW



9. LIST OF REPORTS

Reports | Energy Access

General Energy Access Online Applicant

Energy Access Report

- 1. List of Power Generation Plants
- 2. List of Solar Powered Grid Facilities
- 3. List of LPG Outlets
- 4. List of Petrol/Diesel Stations
- 5. List of Connected Communitis(ECG)
- 6. List of Connected Communitis(NedCo)
- 7. List of Customers(ECG)
- 8. Comm. Electrification (National)
- 9. Comm. Electrification by Region

Household fuels

- 1. GSS - Lighting fuel
- 2. GSS - Cooking fuel

Crop And Animal


- 1. Crop Residue
- 2. Aniaml Waste

OK Close

10. REPORT VIEWER

Report viewer

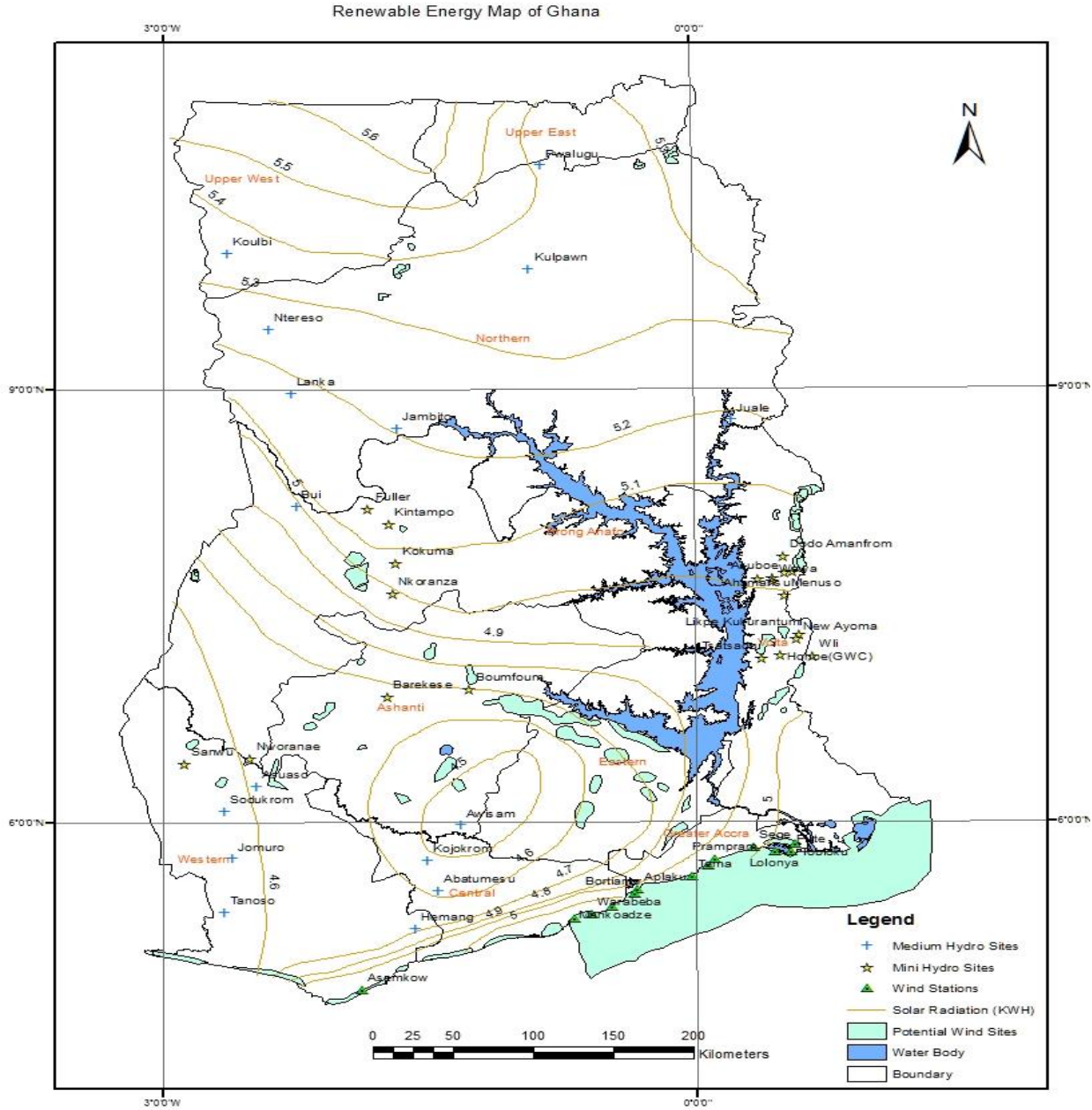
1 of 1 100% Find | Next



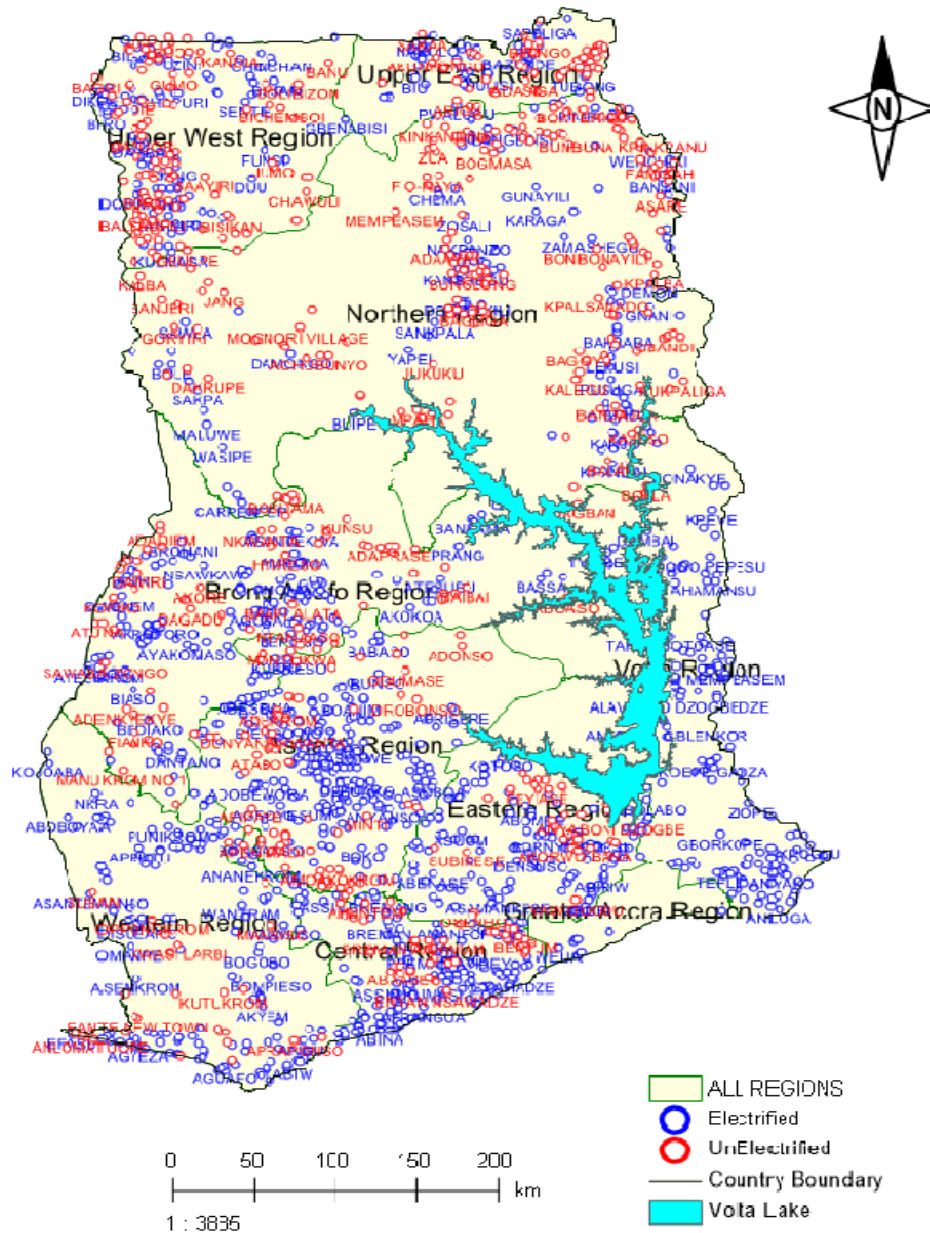
ENERGY COMMISSION GHANA
Email: info@energycom.gov.gh Tel: +233 (0)302 813 756/7
List of Solar Powered Facilities

Sn.	Region	District Assembly	Institution	Locality	Installed Capacity	Latitude	Longitude	Date Installed
1.	GREATER ACCRA	ACCRA METROPOLITAN ASSEMBLY	Ministry of Energy	Accra	50	05.5514N	000.2008W	1 Jan 1998
2.	GREATER ACCRA	ACCRA METROPOLITAN ASSEMBLY	Energy Commission	Accra	4.25	05.5975N	000.1829W	1 May 2008
3.	ASHANTI	KMA	KNUST	Kumasi	4	06.6735N	001.5654W	1 May 2008
4.	ASHANTI	KMA	KNUST	Kumasi	20	06.6735N	001.5654W	1 Mar 2012
5.	GREATER ACCRA	GA EAST	Valley View University	Oyibi	8.36	05.7974N	000.1224W	1 May 2010
6.	GREATER ACCRA	GA EAST	Presby Women's Centre	Abokobi	4.18	05.7386N	000.2046W	1 May 2010
7.	BRONG AHAFO	KINTAMPO MUNICIPAL	Pure Company Ltd	Benkrom	4.18	08.7610N	001.4493W	1 May 2010
8.	GREATER ACCRA	ACCRA METROPOLITAN ASSEMBLY	V. Attafuah - Residence	East Airport, Spintex Rd, Accra	4.18	05.6227N	000.1416W	1 May 2010
9.	GREATER ACCRA	ACCRA METROPOLITAN ASSEMBLY	V. Adomako - Residence	Dzowulu, Accra	4.18	05.6154N	000.1950W	1 May 2010
10.	GREATER ACCRA	TEMA	S. Adjei - Residence	Tema	4	05.6431N	000.0151W	1 Sep 2011
11.	EASTERN	AKWAPIM SOUTH	G Mills - Residence	Peduase	3.8	05.8050N	000.1760W	1 Sep 2011
12.	GREATER ACCRA	LEDZOKUKU	Abdulai - Residence	Tesijriganor	3.29	05.6413N	000.1343W	1 Nov 2011
13.	GREATER ACCRA	GA EAST	Trade Works Company Ltd (Office)	South Dome	10.575	05.6491N	000.2506W	1 Nov 2011
14.	EASTERN	ASUOGYAMAN	Wienco Gh Ltd	Atempoku	42.77	06.2777N	000.0718E	1 Nov 2011
15.	GREATER ACCRA	ADENTA	O Asante - Residence	Fafraha-Ashyie	0.8	05.7357N	000.1465W	1 Dec 2011
16.	GREATER ACCRA	TEMA	Dr. George Pupilampu Clinic	Sakumono	4	05.6304N	000.0751W	1 Dec 2011
17.	EASTERN	AKWAPIM SOUTH	Rita Marley Music Studio	Aburi	4	05.8321N	000.18321W	1 Oct 2012

11. SAMPLE MAPS



Electricity Access Map of Ghana



ANOTHER DATABASE/RENEWABLE ENERGY REGISTRY BEING DEVELOPED

The screenshot displays a web application titled "Solar Registry" on the browser address bar www.ghanasolarprogramme.com. The user is logged in as "Tsakawo selorm". The dashboard features a sidebar navigation menu with the following items: Dashboard, Tables, Graphs, Analysis, Solar Installers, Application Form, Pre Approvals, Pre Approved, Approval, Inspections, Installations, and Members. The main content area contains four data visualizations:

- Total Installations per Region:** A bar chart showing 114 installations for Greater Accra and 1 for Ashanti.
- Total Installed Capacity(kW) per Region:** A bar chart showing approximately 58 kW for Greater Accra and 0 kW for Ashanti.
- Annual Capacity and Installations:** A bar chart showing 2 units for Greater Accra and 4 units for Ashanti.
- Total Installations per Region (Pie Chart):** A pie chart showing 114 (99.1%) for Greater Accra and 1 (0.9%) for Ashanti.

Region	Installations
Greater Accra	114
Ashanti	1

Region	Capacity (kW)
Greater Accra	58
Ashanti	0

Region	Installations	Capacity (kW)
Greater Accra	2	2
Ashanti	4	4

Region	Capacity (kW)	Percentage
Greater Accra	114	99.1%
Ashanti	1	0.9%