Regional Validation Workshop on the use of Geographical Information Systems in the energy sector

<u>July 26-28, 2016</u>

<u>Dakar, Senegal</u>

Energy and Rural Electrification Planning in Ghana

FRANCIS KEMAUSUOR KNUST, GHANA





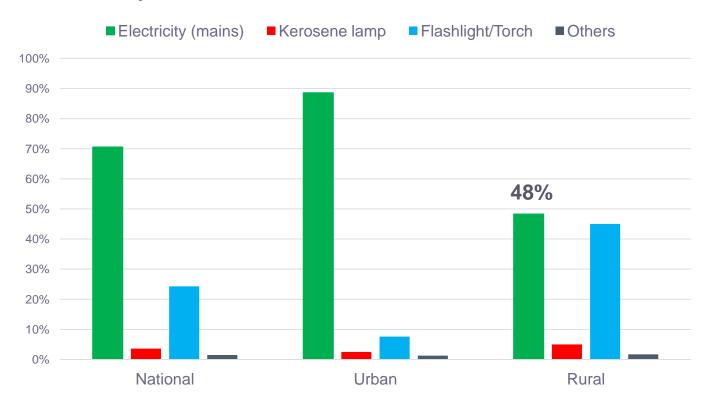






Introduction

 At the end of 2013, 48% of rural households have access to electricity.



Ghana Statistical Services (2014)

















Agencies in charge of rural electrification

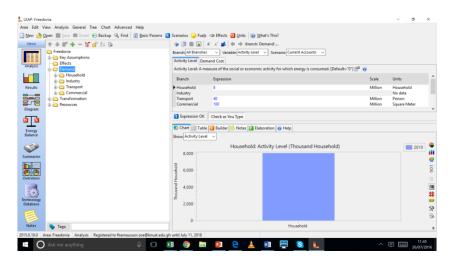
- Rural electricity planning is coordinated by the Ministry of Power.
 - Renewable and Alernative Energy Directorate
 - Ghana Energy Development and Access Project (GEDAP)
 - Energy Commission
- Many of remaining <u>un-electrified</u> rural households are in remote and island communities – off-grid and mini-grids targetted
- Renewable Energy Masterplan (REMP) under preparation, with targets for RE mini-grids and solar systems for remote and island communities

System	2020	2025	2030
Solar standalone (MW)	7	9	10
Solar Lanterns (units)	500,000	1,300,000	2,000,000
Mini-grids (units)	50	100	200

Source: REMP Taskforce (provisional)

Energy Planning Tools

1. Long Range Energy Alternative Planning Tool - EC



ENERGY COMMISSION



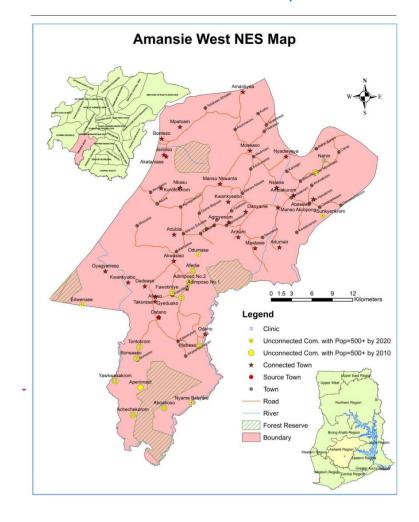
STRATEGIC NATIONAL ENERGY PLAN

(SNEP II)

VOLUME ONE
Energy Demand Projections for Ghana
2015 - 2035

Final Draft II

2. GIS – MoE Electrification Materplan Review











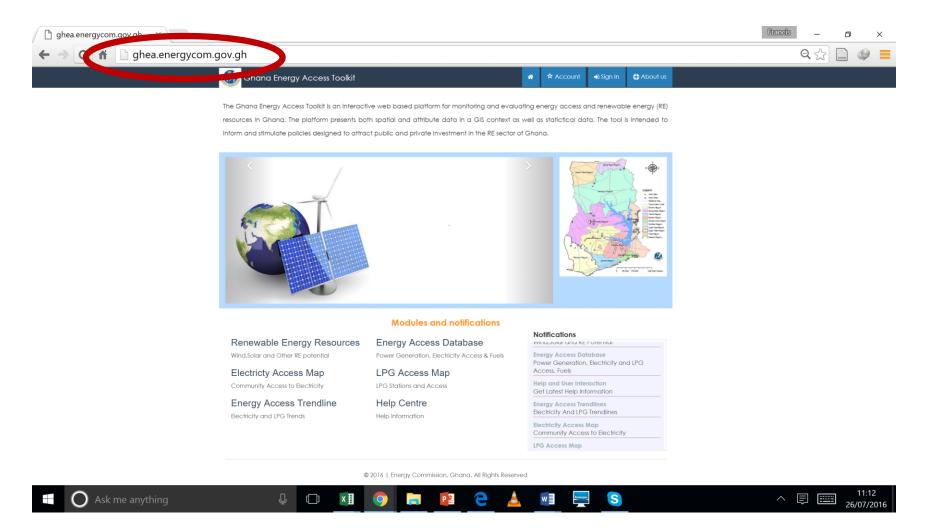




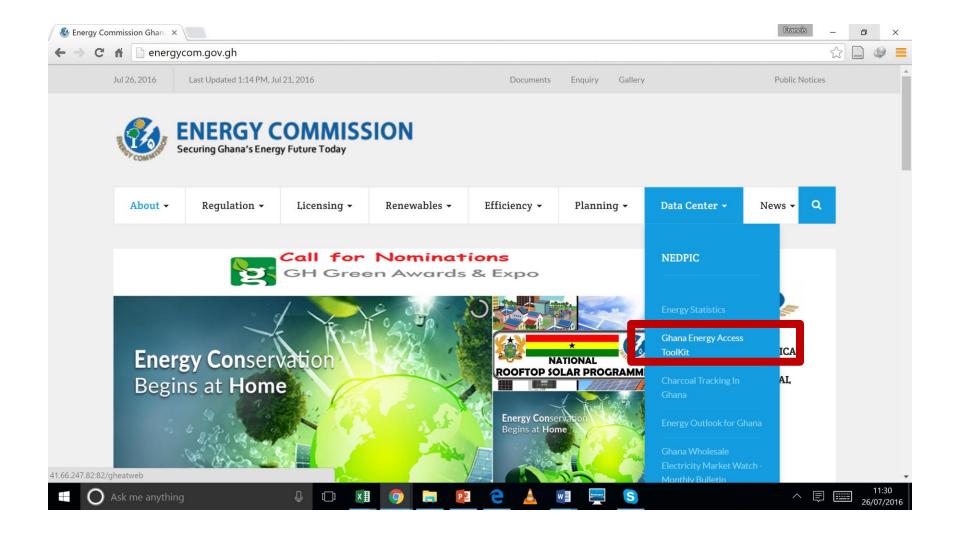




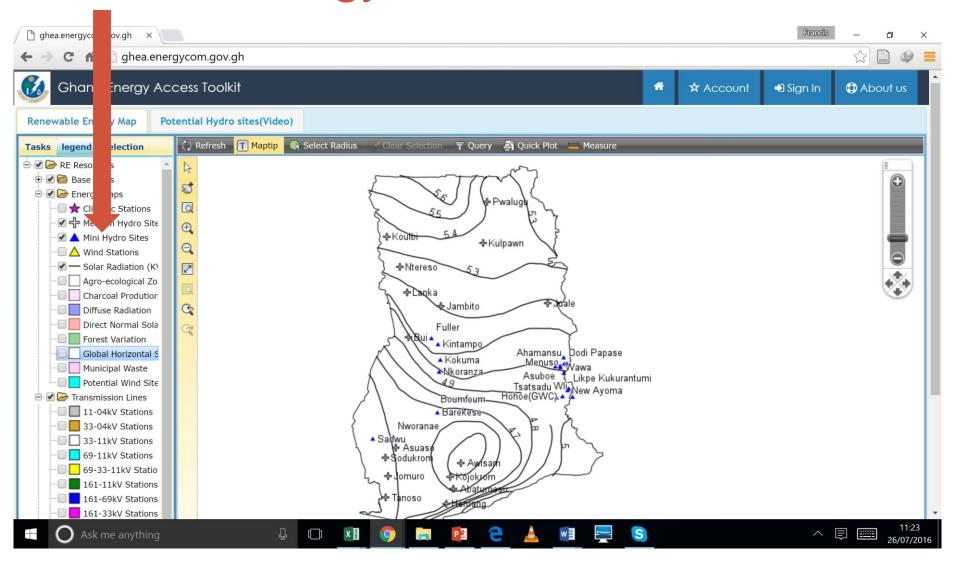
3. Ghana Energy Access Toolkit



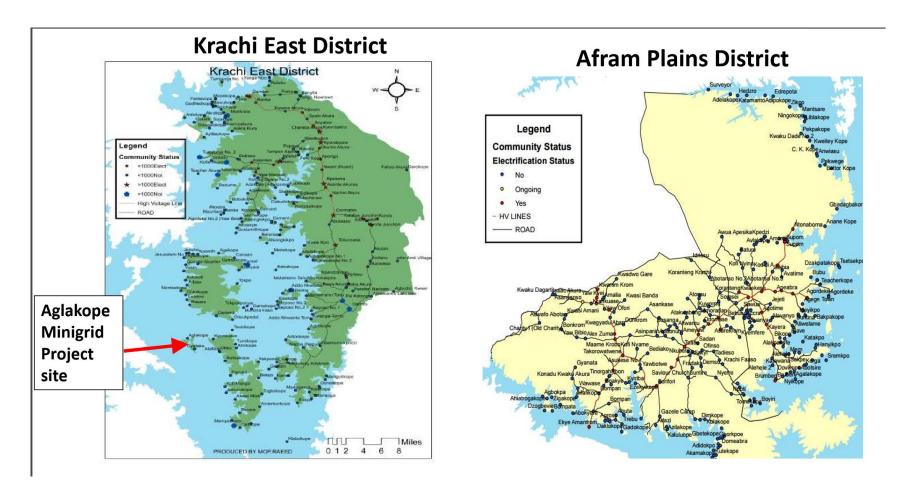
Ghana Energy Access Toolkit



Ghana Energy Access Toolkit



4. GIS for rural mini-grid planning - MoP



Source: Wisdom Ahiataku-Togobo, Director, Renewable and Alternative Energy Directorate, Ministry of Power (2016)

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Thank you

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