

TOWARDS UNIVERSAL ENERGY ACCESS IN GHANA: THE ROLE OF THE SUSTAINABLE ENERGY FOR ALL INITIATIVE

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SUSTAINABLE ENERGY
FOR ALL

PRESENTATION OUTLINE

The Sustainable Energy for All Initiative & Summary of Ghana's Country Action Agenda

Progress made toward achieving universal access to energy

THE SUSTAINABLE ENERGY FOR ALL
INITIATIVE & SUMMARY OF GHANA'S
COUNTRY ACTION AGENDA

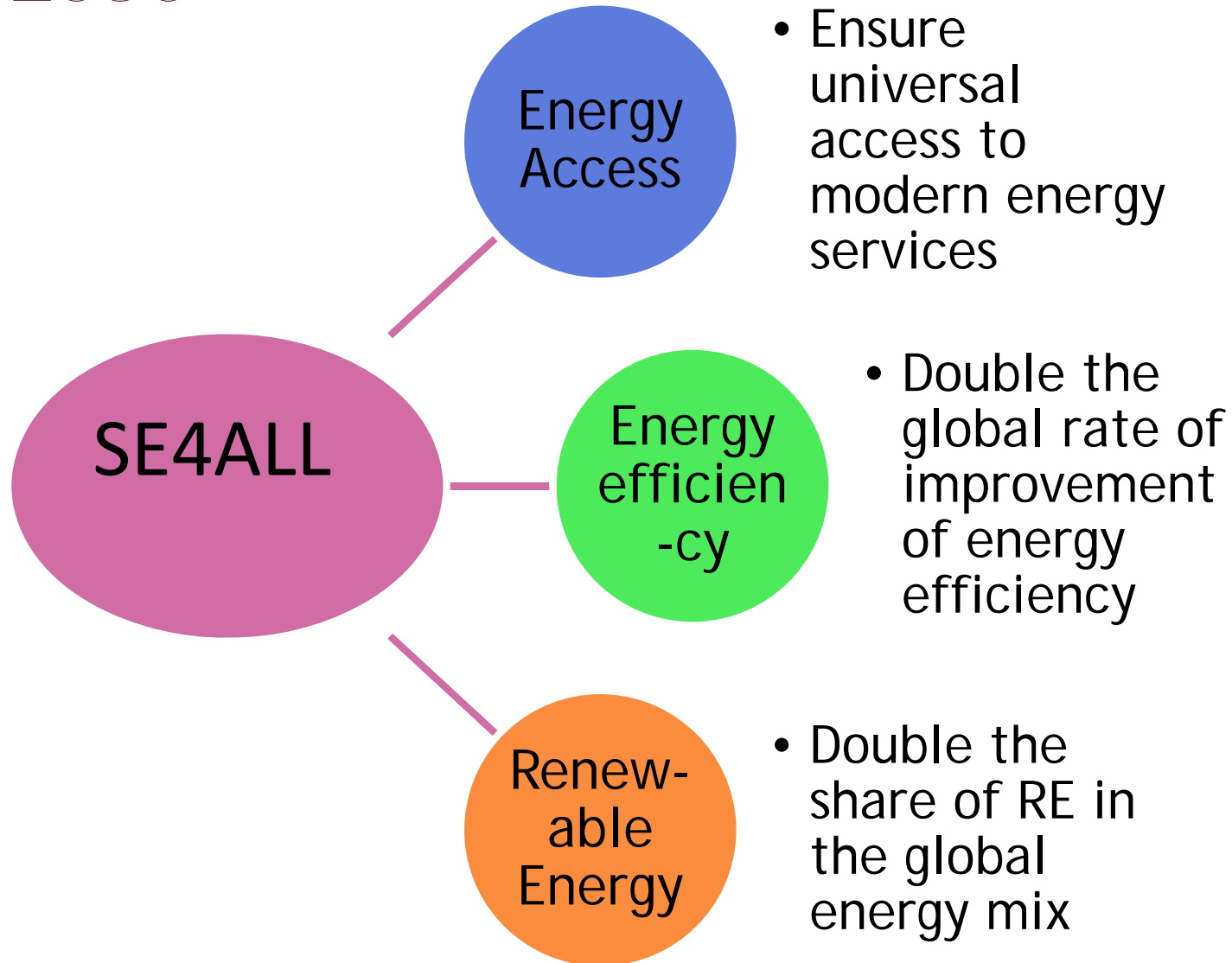


INTRODUCTION

- The Sustainable Energy for All (SE4ALL) initiative was initiated by the UN Secretary General in September 2011 as a global initiative that would mobilise action from all sectors of society in support of three interlinked objectives...



SCOPE AND GOALS TO BE ACHIEVED BY 2030



GHANA SE4ALL INITIATIVE

- Ghana is the first country to commit to the initiative, develop and launch her Country Action Plan in May 2012
- Three key objectives:
 - I. Promote productive uses of electricity
 - II. Improve access to cleaner cooking options:
 - a. Woodfuel and improved cookstoves
 - b. Increase access to LPG
 - c. Institutional biogas for cooking
 - III. Provide access to electricity for remote communities using off-grid systems

OBJECTIVE 1: PRODUCTIVE USES OF ELECTRICITY

Irrigation

- Use solar, wind and mini-hydro electricity to increase agricultural productivity

Agro-processing

- Promote solar dryers, palm processing plants and multifunctional platforms for grinding and milling

Fisheries

- Establish modern landing sites, cold storage facilities and aquaculture ventures

Salt production

- Create medium scale enterprises

OBJECTIVE 2: IMPROVE ACCESS TO CLEANER COOKING OPTIONS - (A) WOODFUEL & IMPROVED COOKSTOVES

Regulation

- Develop policy and legislation for promotion and development of the clean cookstove sector

Technical and financial capacity

- Improve capacity of local stove manufacturers to increase production and stove quality

Sustainable charcoal production

- Establish wood fuel plantations for charcoal production

OBJECTIVE 2: IMPROVE ACCESS TO CLEANER COOKING OPTIONS - (A) WOODFUEL & IMPROVED COOKSTOVES (2)

Public outreach campaigns

- Raise awareness & pilot advanced biomass cookstoves in public institutions

Research and development

- Engage end users in product design & marketing
- Promote R&D
- Build capacity of locals to leverage carbon financing

OBJECTIVE 2: IMPROVE ACCESS TO CLEANER COOKING OPTIONS - (B) LPG

Increase
LPG
supply

- Increase storage infrastructure and supply of LPG &
- Build a minimum of 4 bottle refilling plants

Regulation

- Develop, monitor & enforce standards for improving safety & educate the public on safe use

Invest in
LPG
infrastruc-
ture

- Support the production of cylinders (esp. 5kg & below) & use PPP to build-up distribution network and retail outlets

Improve
consumer
access

- Reintroduce cylinder recirculation model

OBJECTIVE 2: IMPROVE ACCESS TO CLEANER COOKING OPTIONS - (C)PROMOTE INSTITUTIONAL BIOGAS FOR COOKING

Cooking in
public
institutions

- Introduce institutional biogas systems for cooking in selected schools, hospitals and prisons

OBJECTIVE 3: PROVIDE ACCESS TO ELECTRICITY FOR REMOTE COMMUNITIES USING OFF-GRID SYSTEMS

Lighting

- Solar lanterns

Education

- Solar for ICT in remote schools

Health

- Solar PV for lighting and refrigeration of vaccines

Residential

- Solar home systems

Mini-grid

- RE electrification of "island" communities

ENERGY ACCESS TARGETS SET

1. **National Electrification:** 90% by 2016
2. **Renewable Energy:** increasing the contribution of RE by 10% or 500MW in electricity generation mix by 2020
3. **LPG for cooking:** 50% of population by 2020
4. **Improved cookstoves:** 50% of population by 2020
5. **Biogas for cooking:** 200 public institutions by 2020

PROGRESS MADE SO FAR...



National
Electrification: About
80%

LPG: $\geq 18\%$

RE: 0.22%
(Grid
connected
solar 3MW,
off-grid
0.8MW;
Biomass 2MW)

Energy Access

Improved
cookstoves:
over
800,000
households

Off-grid
systems:
over 41,000

Biogas: CSF
for
feasibility
study

**PROGRESS
MADE
TOWARD
ACHIEVING
UNIVERSAL
ACCESS TO
MODERN
ENERGY
SERVICES
TO DATE**



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