



SUSTAINABLE ENERGY
FOR ALL

ENERGY EFFICIENCY: INTERVENTIONS, CHALLENGES AND BARRIERS

PRESENTED AT SEforALL AFRICA MEETING IN
ABIDJAN

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PRESENTATION OUTLINE



What we are doing
now: Priority EE
Interventions

Challenges and
Barriers

Support Needed from
Development Partners

PRIORITY EE INTERVENTIONS

- ❖ **Piloting of Automatic Timer Switches in households**
 - Dissemination of 37,500 ATS in homes
 - To test acceptability, and establish baseline on energy saving potential
 - Facilitate adoption of up to 2 million ATS
- ❖ **Develop and implement S&L for up to 20 appliances including TV, fan, decoder, RE batteries, inverters, etc.**
 - Regulation for LED currently in Parliament
 - Build capacity in energy audit
 - Increase public awareness on EE conservation & management



PRIORITY EE INTERVENTIONS (2)

❖ EE in buildings

- EC with support from AfDB has developed EE building code for Ghana
- The standard is for buildings with min. air conditioned space of 500m²
- Working on labelling in public and commercial buildings with the Ghana Green Building Council

❖ S&L for biomass stoves - inline with ISO TC 285

- Baseline established on performance of stoves on Ghana market
- Draft standard being finalised
- Public testing of draft label done



MAIN CHALLENGES & BARRIERS



❖ High financial investment

- **Institutional** - enforcement & implementation of interventions
- **Consumer** - high upfront cost of EE appliances

❖ Enforcement of regulations is a tedious and risky task

- No one-size-fit-all solution
- Still have non-compliant products on the market
- Challenges evolve & requires innovative solutions - e.g. **developing mobile app for compliant refrigerators**

MAIN CHALLENGES & BARRIERS (2)



❖ Personnel

- Enforcement requires dedicated staff who are **very diligent**, have **integrity**, **proactive**, **smart**, **quick thinkers**, etc.

❖ Inadequate institutional collaboration in enforcement of regulations

- Currently EC works with about 7 state institutions
- **Enforcement suffers when it is seen as 'EC's responsibility'**
- **E.g. lack of support from a key stakeholder is causing the influx of old fridges into Ghana**



MAIN CHALLENGES & BARRIERS (3)

- ❖ EE interventions are seen as high risk area by financial institutions
 - F.Is. are comfortable with **traditional business**, hence, they are skeptical to venture into **the unknown**
 - E.g. Industries in Ghana have difficulty in accessing funds to implement EE interventions
- ❖ Public awareness does not always yield immediate results
 - Public awareness is a bottom-less pit
 - Awareness still low, despite numerous EE campaigns



SUPPORT NEEDED FROM DPS

1. **Improved Cookstove Promotion - ~\$30m**
 - ❖ Scale-up of production - \$15m
 - ❖ Market drive for adoption, S&L scheme - \$8m
 - ❖ R&D, improve technical capacity of stove testing labs - \$7m
2. **Power sector EE interventions- ~\$8.5m**
 - ❖ Awareness creation on EE and benefits - \$300,000/yr
 - ❖ Enforcement - \$500,000/yr
 - ❖ Pilot EE interventions - \$100,000/yr
 - ❖ Support end-user financing schemes especially for industries - \$4m



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**Thank
You!!!**

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