Synthesis of Sustainable Energy for All (SE4ALL) Action Agenda for ECOWAS

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ECOWAS Overview

Area: 5,115,000 km^2

Population: 334 million

GDP per capita: US$ 2,097

Electricity production: 55.4 TWh **32% from renewables**

Installed capacity: 15.9 GW of which **4,5 GW renewable energy** (28%)

Access to electricity: ~ 34% (2012)

Access to modern energy for cooking: ~ 25% (2012)

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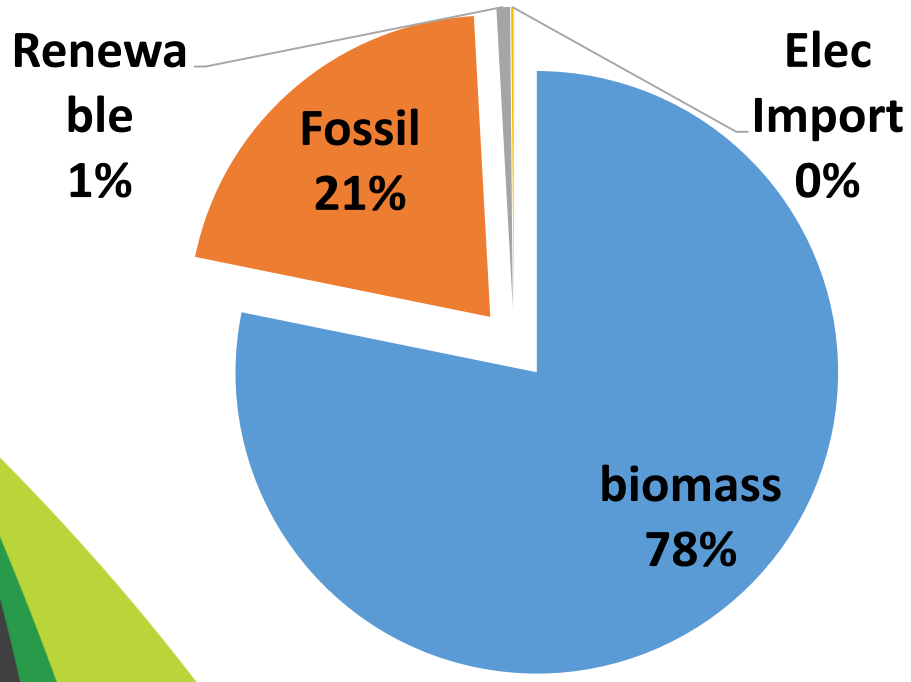
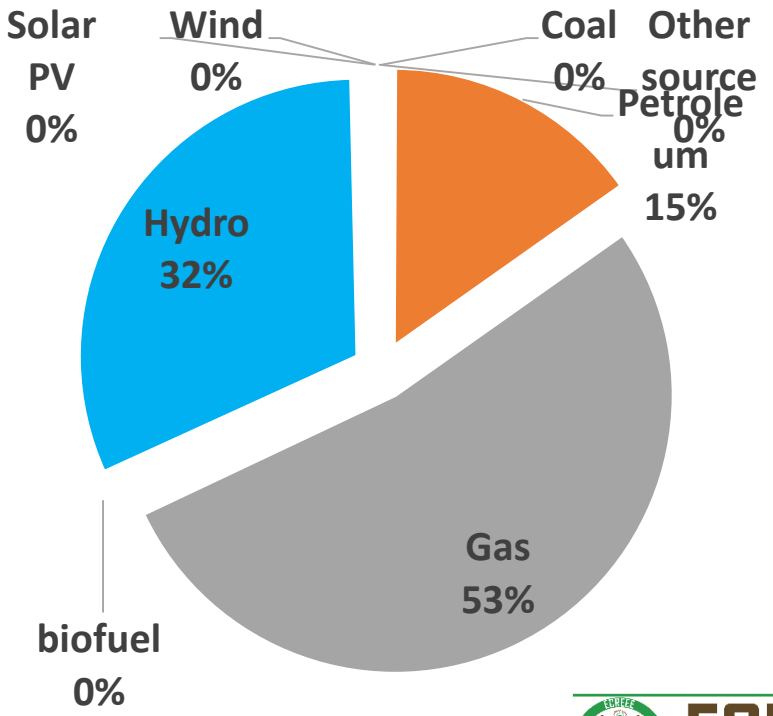
ECOWAS Primary Energy Supply

In 2012, total primary energy supply was 186.5 million toe



ECOWAS Electricity Generation

In 2012, total electricity generated was 55.4 TWh



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ECOWAS Energy Objective for 2030

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ECOWAS Regional Objectives

ENERGY ACCESS

- Provide access to clean cooking energy to 100% (60%) of the population by 2030 (2020), including 26% (20%) of LPG users
- Promoting 60,000 mini-grids and 2.6 million stand-alone systems across the region by 2020

RENEWABLE ENERGY

- The share of renewable energy (incl. large hydro) of the overall electricity mix will increase to 35% (48%) in 2020 (2030)
- The share of new renewable energy such as wind, solar, small scale hydro and bioelectricity (excl. large hydro) will increase to 10% (19%) in 2020 (2030)
- The share of ethanol/biodiesel in transport fuels will increase to 5% (15%) in 2020 (2030)
- By 2020(2030), 6.8% (5%) of generation capacity worth 634 MW (2000 MW) from biomass residues or dedicated plantations

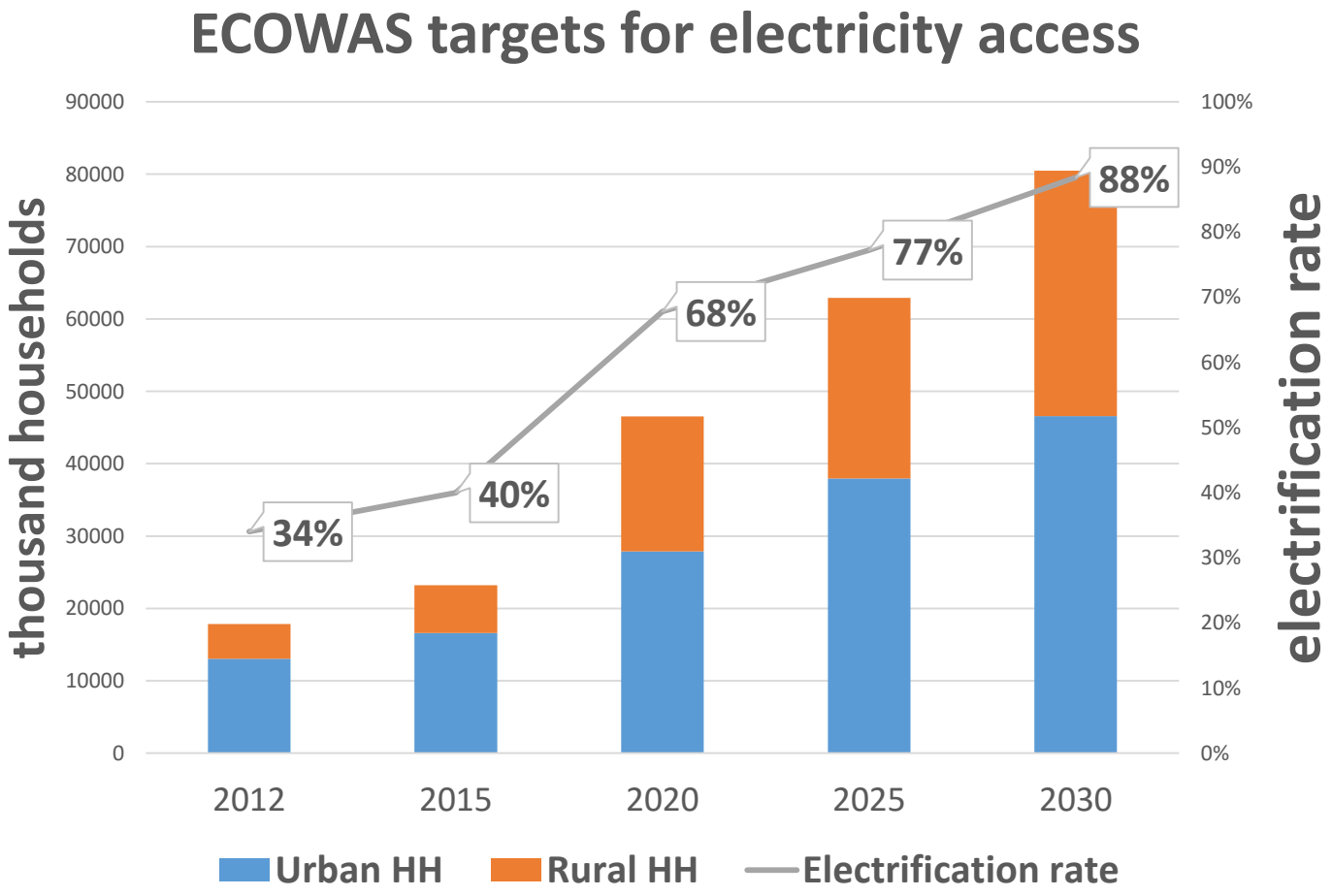
ECOWAS Regional Objectives

ENERGY EFFICIENCY

- **lighting:** phase out inefficient incandescent bulbs by 2020;
- **electricity distribution**: reduce losses in electricity distribution, from the current range of 15% to 40%, to under 10% by 2020;
- **cooking**: achieve universal access to safe, clean, affordable, efficient and sustainable cooking for the entire population of ECOWAS, by 2030;
- **standards and labels**: establish an ECOWAS Technical Committee for Energy Efficiency Standards and Labelling, and adopt initial region-wide standards and labels for major energy equipment;
- develop and adopt region-wide efficiency **standards for buildings** (e.g. building codes);
- **finance**: create instruments for financing sustainable energy, including carbon finance, by the end of 2013, and in the longer term, establish a regional fund for the development and implementation of sustainable energy projects.

Target on electricity access

- The Electrification rate will increase from 34% (2012) to 88% (2030)
- Over 60 million households will gain access to electricity over the period 2015-2030



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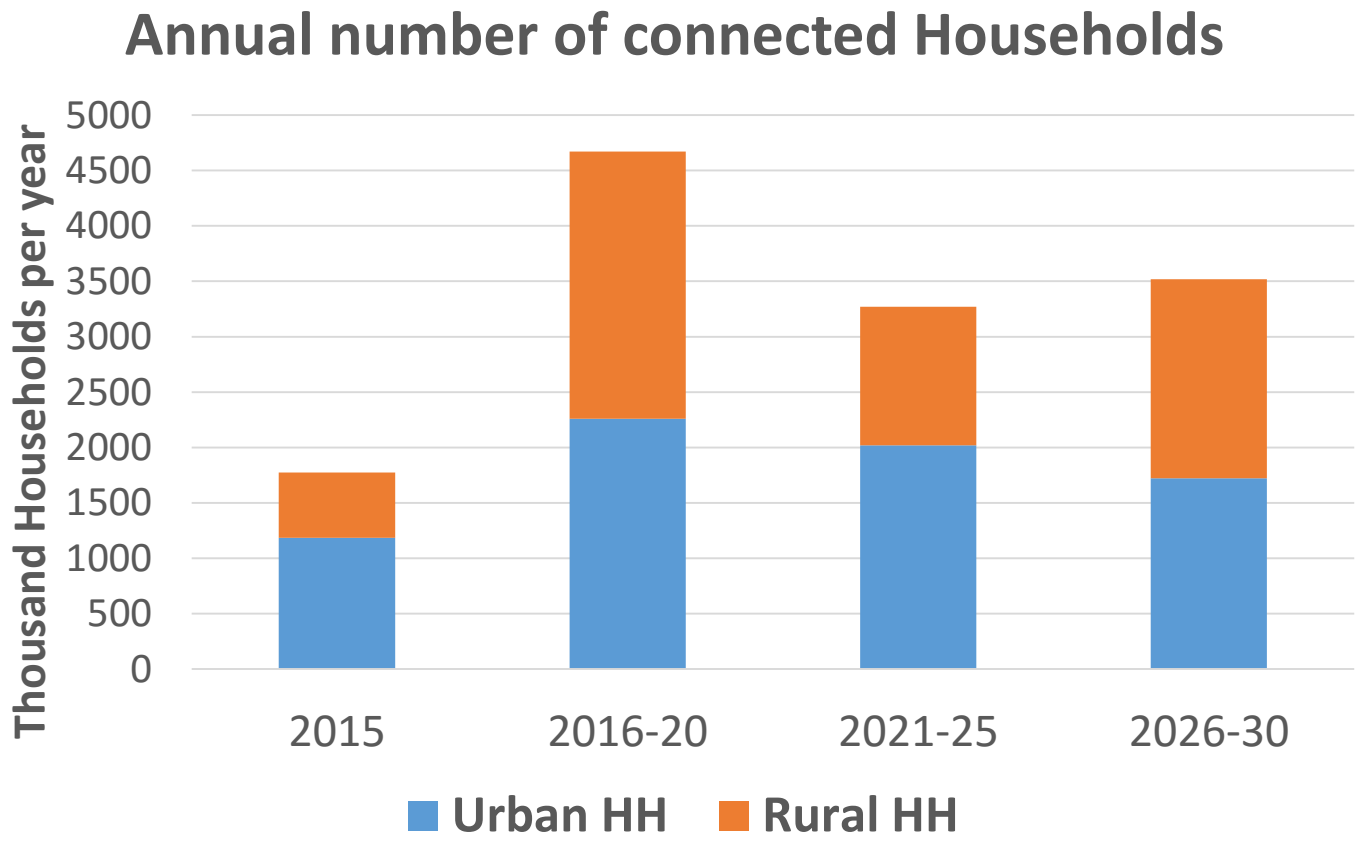
Planned Increase in Electrification

- Increase the number of households electrified (on grid and off grid) from 1.5 million per year to 4.5 million per year



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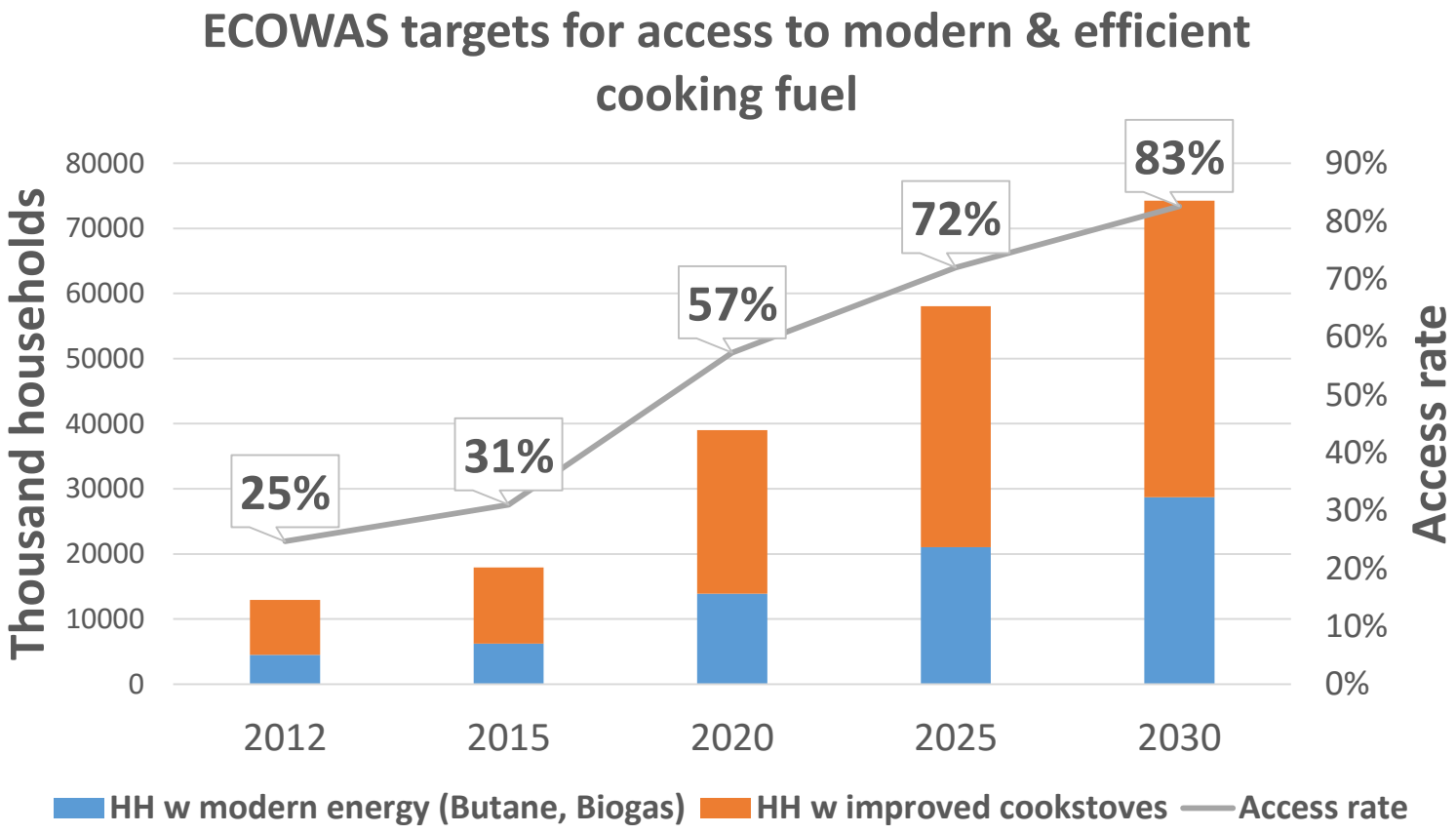
Target on modern & efficient fuel access

- The access to modern and efficient cooking fuel should increase from 25% (2012) to 83% (2030)
- Over 60 million households will gain access to modern and efficient cooking fuel over the period 2015-2030



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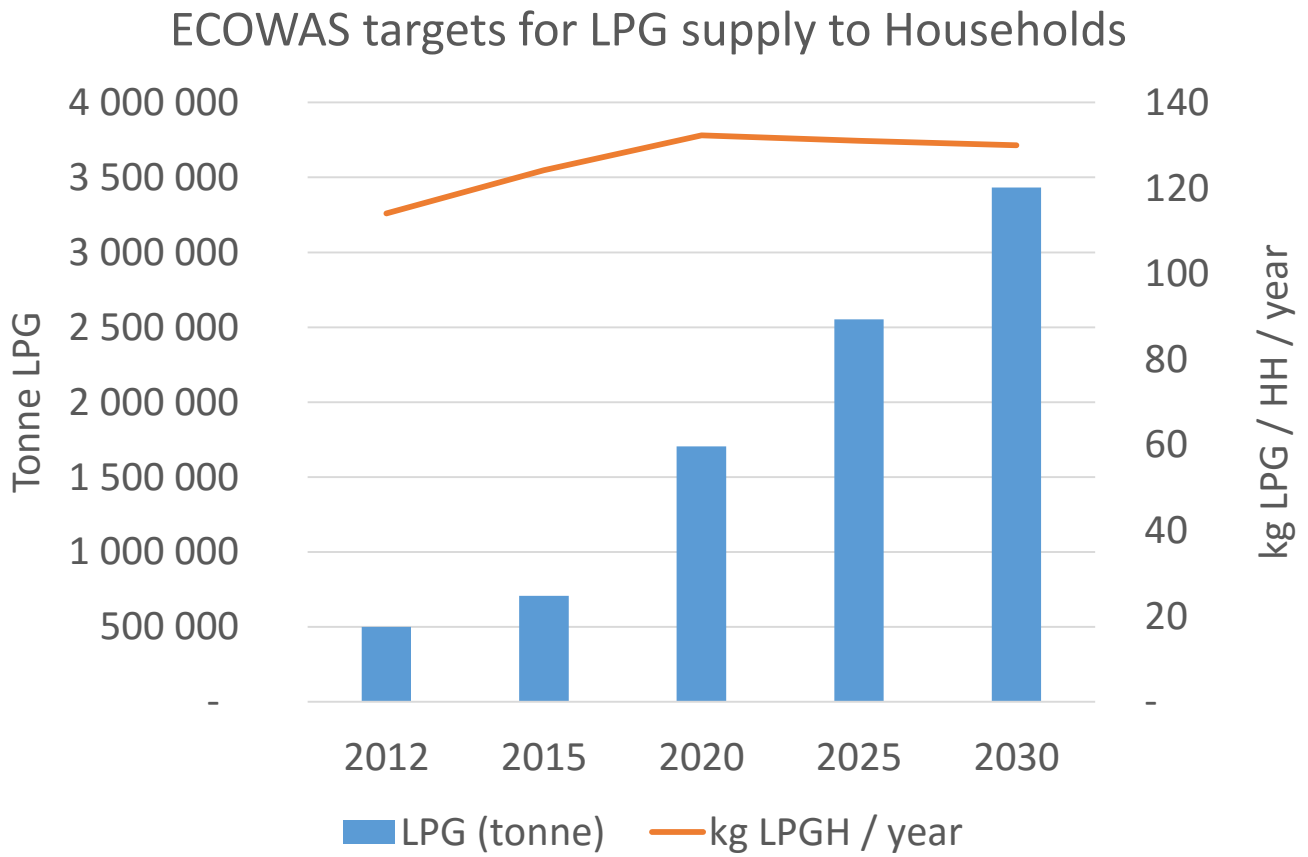
Planned Increase in LPG Consumption

- LPG consumption for cooking will increase from 0.5 to 3.5 million tonne per year
- The number of households gaining access to LPG will increase from 0.6 to 1.4 million per year



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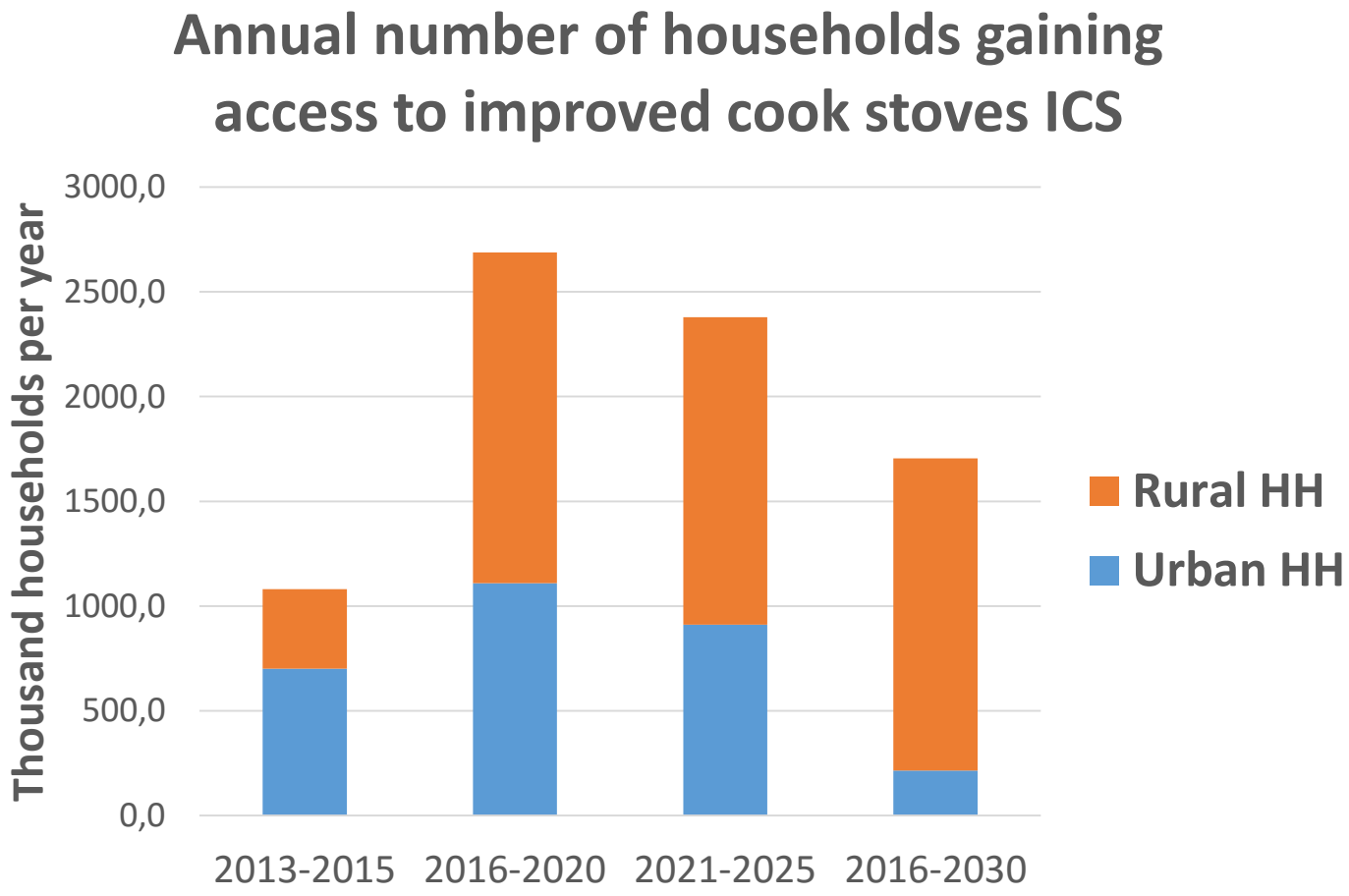
Planned Increase in Use of Improved Stoves

- The number of households gaining access to improved cook stoves (ICS) will increase from 1 million to 2.5 million per year
- After 2020, the number of HH gaining access to ICS will decrease because of saturation of the urban market and penetration of butane



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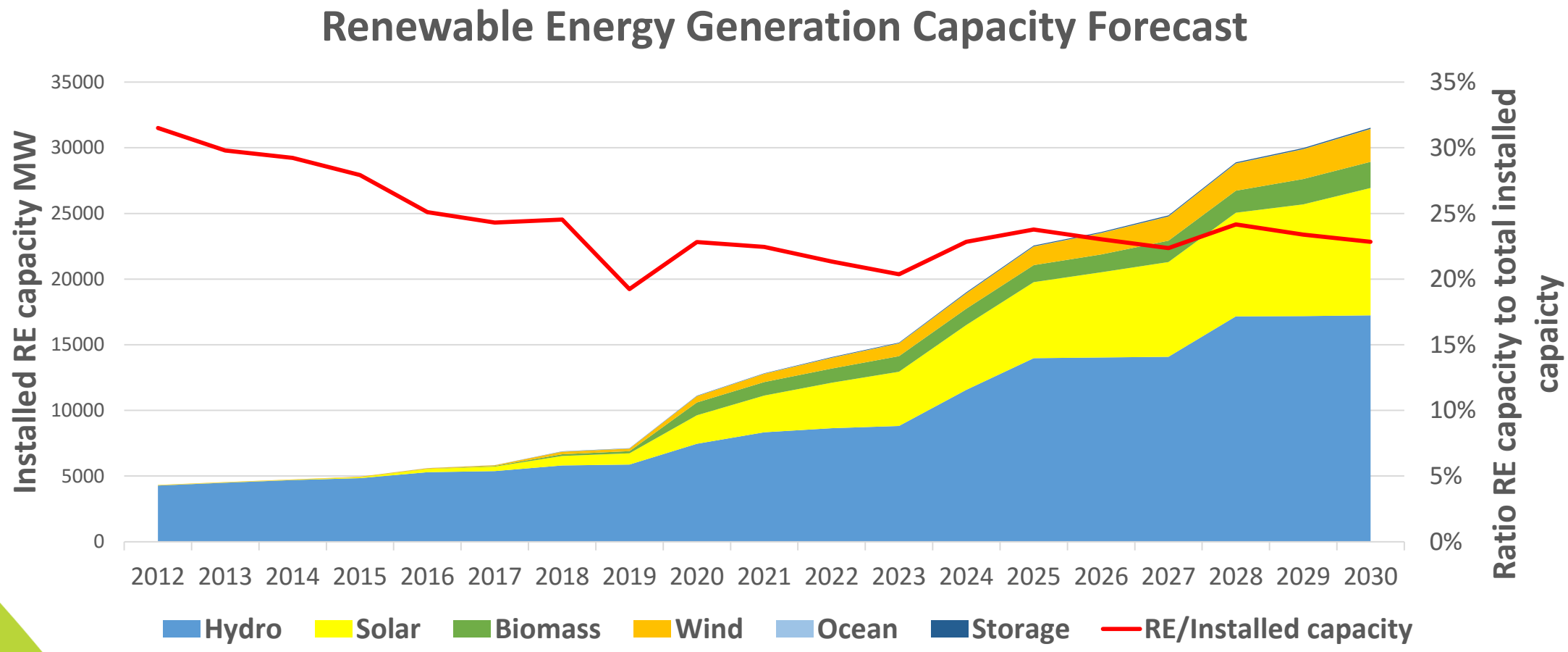
Planned Increase in RE Generation Capacity

- The share of renewable generation capacity will stay around 20% (incl. large Hydro)



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The ECOWAS corridor of identified Solar projects

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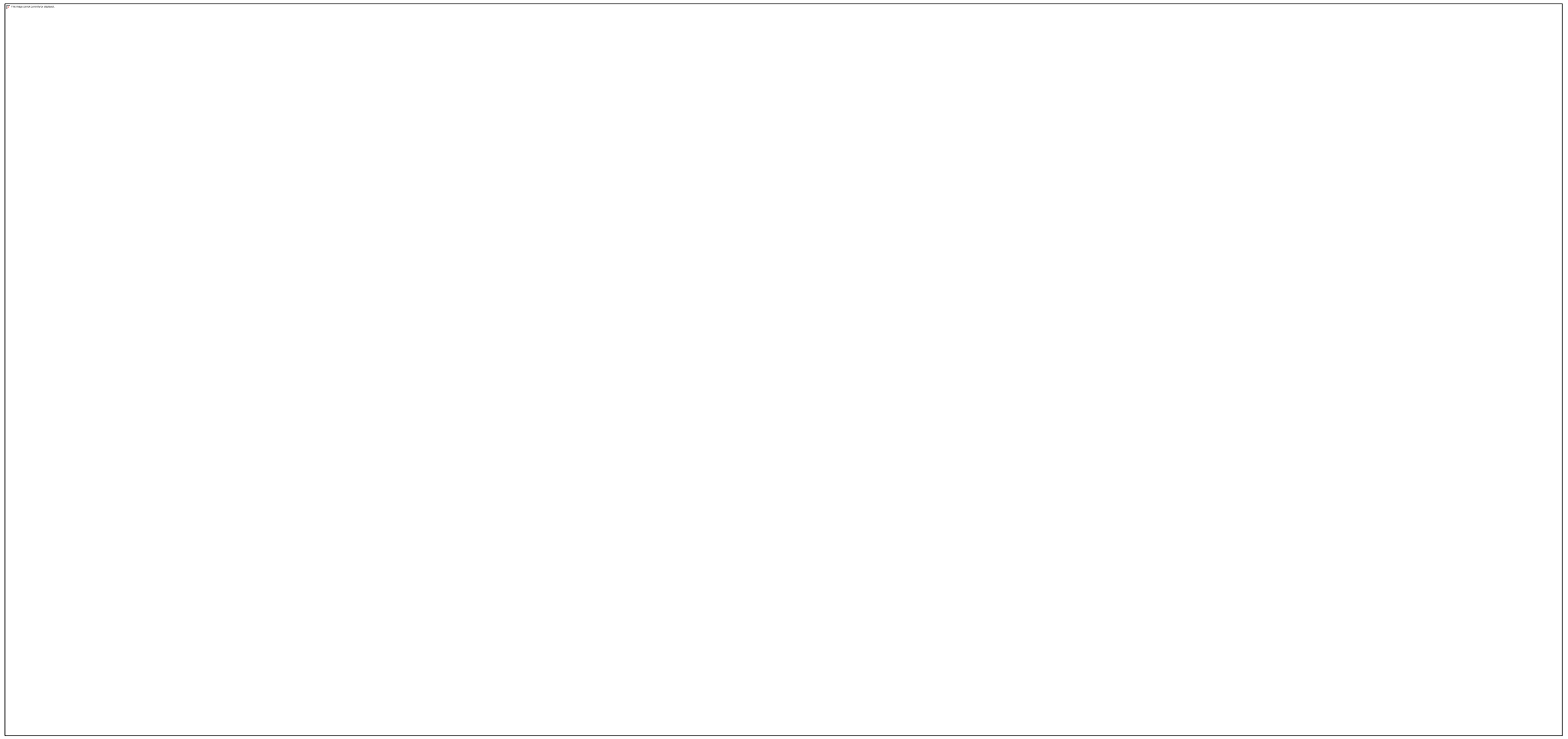
The ECOWAS corridor of identified Hydro projects



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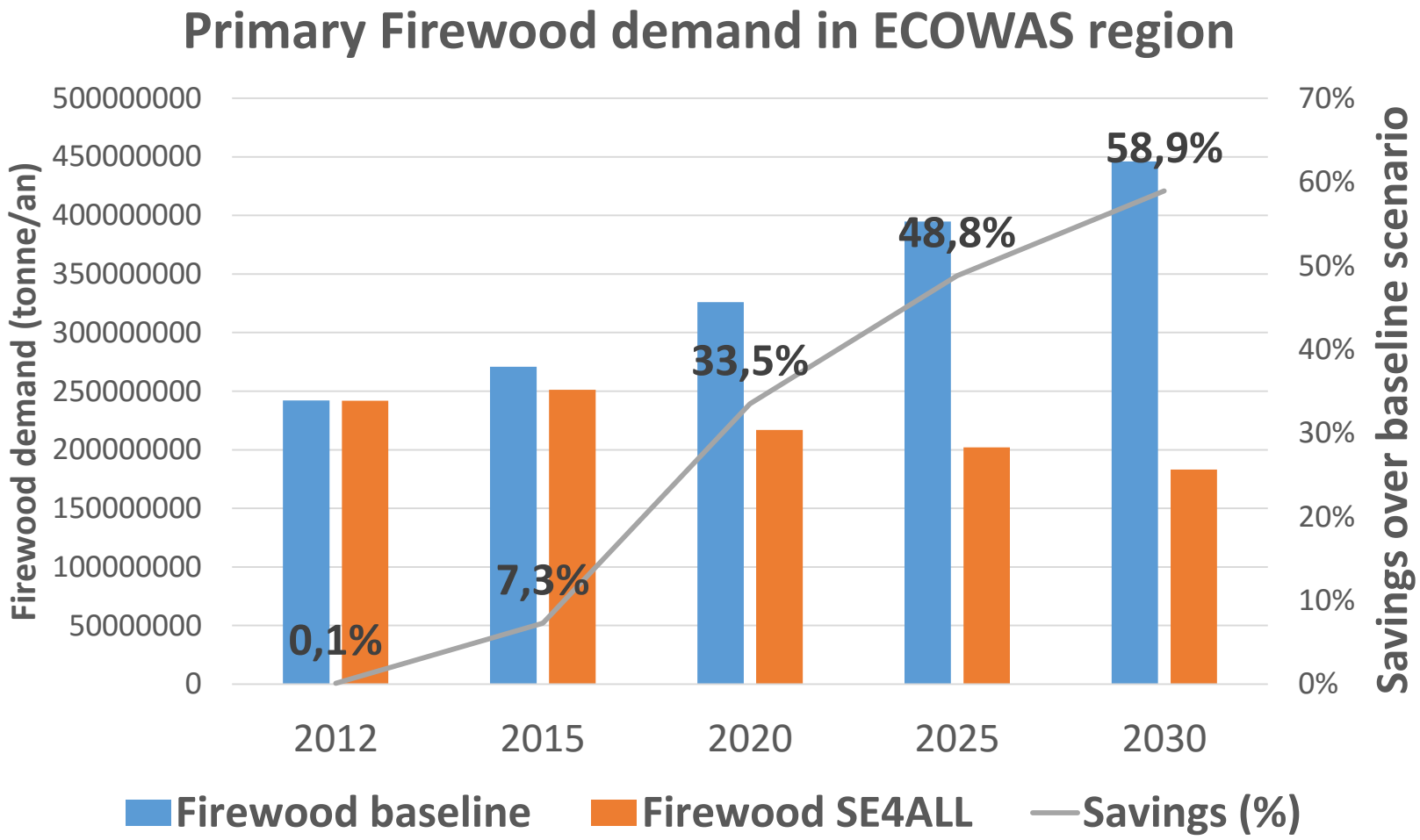
Planned Evolution of Biomass Consumption

- The promotion of LPG and improved cook stoves will permit to curb the firewood demand below sustainable supply capacity:
  - Less than 200 million tonne per year in 2030,
  - Instead of currently around 250 million tonne per year



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Regional Support to national actions to attain the targets

- ECOWAS Sustainable Energy Policy and Enabling Environment Program
- ECOWAS SE4ALL Program
- ECOWAS Rural Electrification and ACCESS PROGRAM(ERurEP)
- ECOWAS Energy Efficiency Program
- ECOWAS Project Development and Finance Program
- ECOWAS Capacity Building Program
- ECOWAS Solar Thermal program
- ECOWAS Small Hydro Program
- ECOWAS Program on Gender Mainstreaming in Energy Access
- ECOWAS Climate Change Program

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SE4ALL Action Agenda for ECOWAS

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Within the framework of

SUSTAINABLE ENERGY FOR ALL

Thank You

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