



UNFCCC SB58, SIDE EVENT: 8/6 2023 16:45-18.00

Room: Kaminzimmer, Bonn, Germany



Nordic Folkecenter
for Renewable Energy

100 % Renewables, Local Climate Solutions in East Africa, South Asia

Welcome by organisers: SusWatch Kenya, INSEDA, Nordic Folkecenter for Renewable Energy (NFRE). Moderator: Judit Szoleczky, INFORSE

Global Transition to Renewable Energy

Gunnar Boye Olesen, INFORSE, NFRE, SE, Denmark

East Africa:

Promoting Local Solutions as Important Climate and Development Solutions in East Africa – Online Catalogue

Mary Swai, TaTEDO, INFORSE East Africa, Tanzania

Transition of Kenya to 100% Renewable Energy with Focus on Local solutions. Key Messages

Nobert Nyandire, Suswatch Kenya

Transition to 100 % Renewable Energy in Uganda with Local Solutions, Sustainable Biomass

Richard Kimbowa, UCSD Uganda INFORSE East Africa Chair

More: <https://inforse.org/SB58.php>

South Asia

Promoting Local Activities in South Asia Supported by Eco-Village Development Initiatives

Anzoo Sharma, Center for Rural Technology (CRT), Nepal
Successes with Local Climate Solutions in South Asia & their Promotion

Sanjiv Nathan, INFORSE South Asia & INSEDA, India
Database Online, Documenting Successful Local Climate Solutions in South Asia

Abdul Arif, Grameen Shakti, Bangladesh
Local Solutions in the GST, Why and How
Dumindu Herath, IDEA, Sri Lanka

Dialogue, Conclusion

Thanks to





SB58 2023

Thurs., 8 June 2023 - 16.45 - 18.00
Room: Kaminzimmer



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100% Renewables, Local Climate Solutions in East Africa, South Asia

The Uganda 100% Renewable Energy in Plan by 2050

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Project supported
by
CISU CIVIL SOCIETY IN
DEVELOPMENT



Uganda Coalition for Sustainable Development (UCSD) is a **network of more than 40 NGOs** dedicated to coordinate advocacy and lobby work around issues and commitments made by world governments towards sustainable development since 2004

Mission: Contribute to sustainable development through follow up of the Johannesburg summit outcomes and subsequent global declarations in Uganda

Currently, **UCSD has been a Partner in NGO Cooperation Project (July 2019 – March 2023):**

EASE-CA Project - East African Civil Society for Sustainable Energy & Climate Action in East Africa that sought to promote sustainable energy and climate solutions, supported by CISU Denmark.

Project partners



- ❑ Strengthen CSO networks in Kenya, Tanzania, Uganda to make joint proposals and advocate for better NDCs, LEDS, SDG7/SE4All plans, using existing coalitions (in Kenya coordinated by Suswatch) and INFORSE
- ❑ **Develop and promote strategies and scenarios for 100% renewable energy for Kenya and Uganda**
- ❑ Strengthen regional networking on climate and energy, including joint positions to UNFCCC and strengthen INFORSE
- ❑ Present joint positions at UNFCCC COP's and other places internationally
- ❑ Develop joint catalogue on local climate solutions, for mobile phones, on paper, web: <http://localsolutions.inforse.org/>

Summary for 100% Renewable Energy Plan for Uganda

Plan gives an overview of the **Uganda's situation regarding energy supply and demand**, and presents a **scenario on how Uganda can move into a 100% renewable energy economy by 2050**; and, at the same time move **from a low income country into a middle income country** - as well as **reduce biomass use for energy to sustainable levels**

Uganda has vast potentials for renewable energy, which give a good basis for realizing a development as described in the 100% renewable energy scenario

Opportunities for East Africa for 100% Renewables



- ✓ Energy Savings, where it makes economic sense
- ✓ Renewable energy (solar, geothermal, wind) for power demand increase
- ✓ Renewable energy for industry and commerce including SMEs
- ✓ Gradually more electricity in transport (e-bikes, e-buses, e-cars etc.)



Uganda's Demand for Energy – Important Assumptions

Population grows, from 45M today, to an expected 100M by 2050

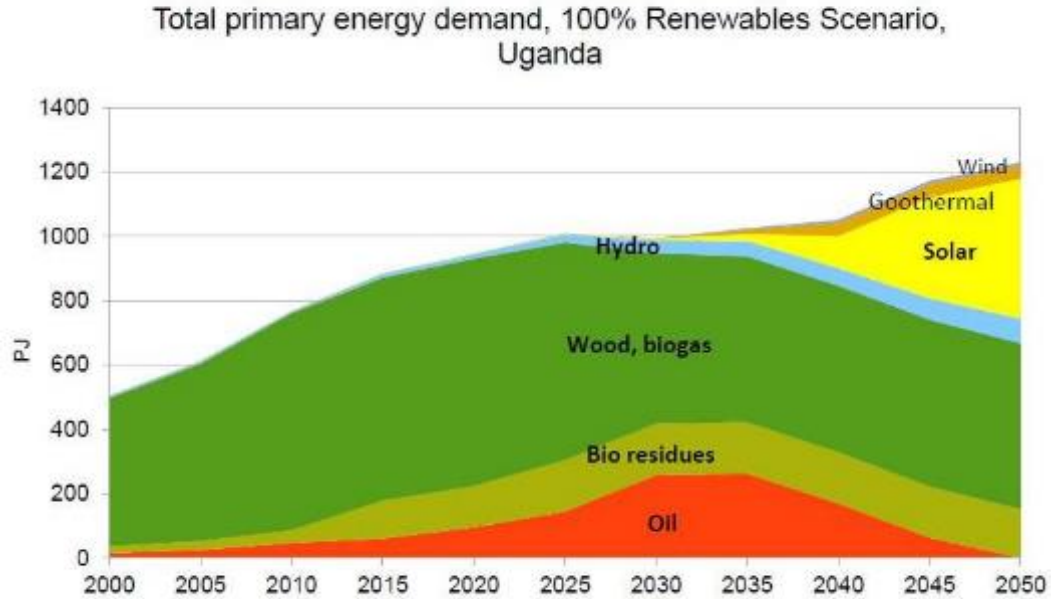
GDP continue to grow, 5%/year is expected. Then GDP will be 4.3 times bigger in 2050 than in 2020

Demand for cooking, transport, light, industry etc. will grow in proportion with population and GDP. With the governments ambitious plan of universal electricity access by 2030, household electricity demand will grow fast 2020 - 2030

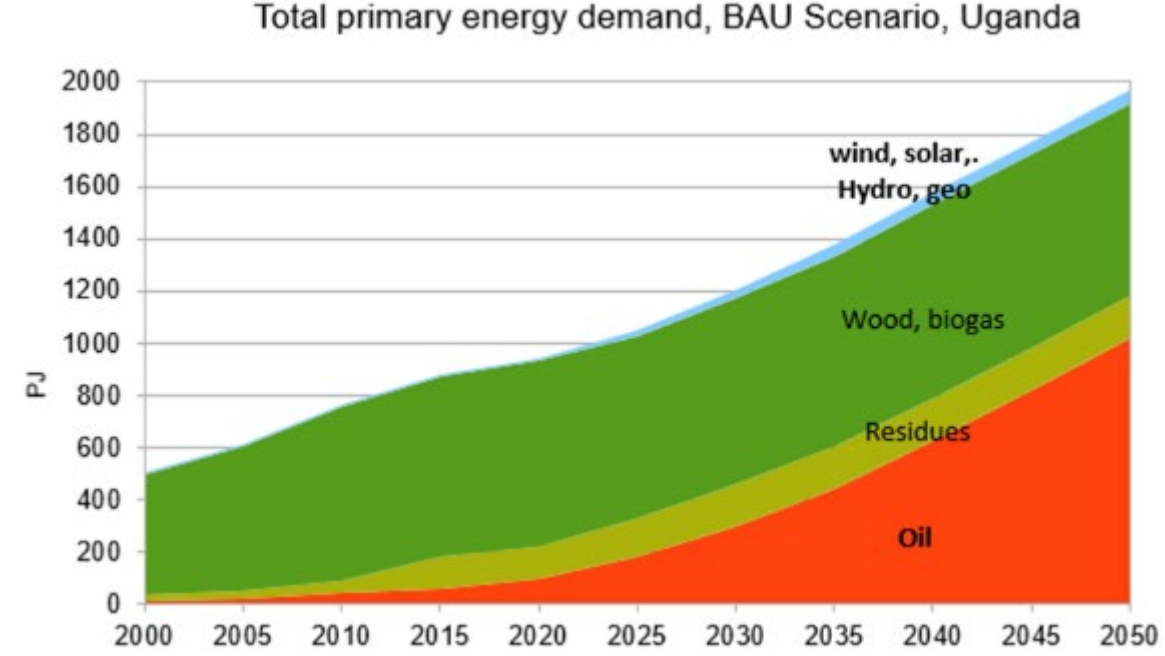
Increasing energy efficiency will limit growth in energy demand for cooking, transport, light, industry etc.; but energy demand will still grow

With new, efficient technology, large demands for fuel can be replaced with much smaller demands for electricity: smart cooking, electric vehicles etc.

Total Primary Demand



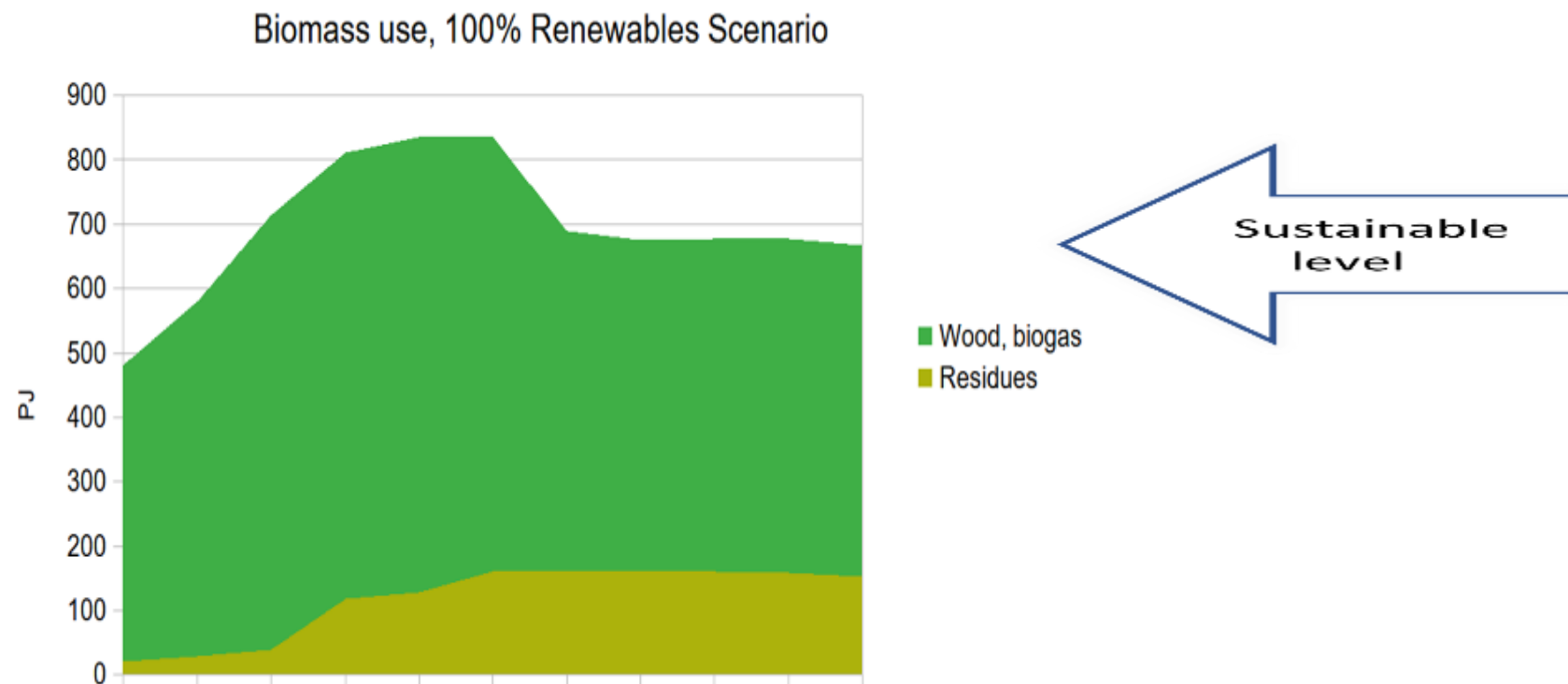
100 % RE Scenario: For geothermal electricity production only is included not waste heat



Business As Usual Scenario

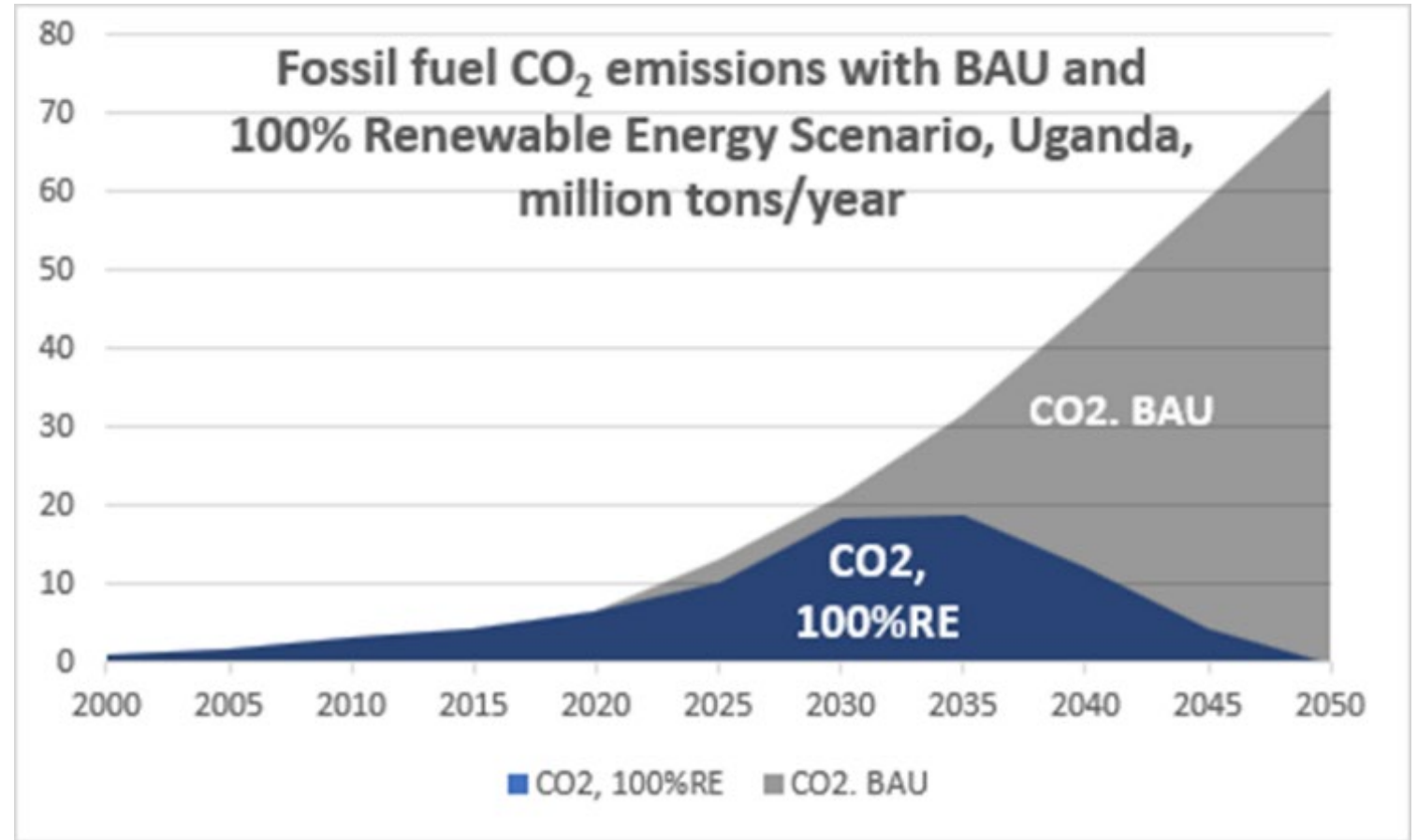
Biomass Sustainability

Uganda is using more wood than its sustainable level, leading to deforestation (BAU). In the 100% renewable energy scenario, this demand is reduced to the sustainable level



CO2 Emissions from Energy – A better Green Dev't Path

CO2 emissions from fossil fuels are small today, but growing. In the BAU scenario they will continue to grow, while in the 100% renewable energy scenario, they will gradually be reduced until 2050.



Net emissions from unsustainable biomass use is much higher than emissions from fossil fuels. In the 100% renewable energy scenario, the net biomass emissions will be brought to zero by 2030 by **tree planting, and the efficient cooking and heating technologies** (new, efficient technology,

Thank You



More info:

Uganda Coalition for Sustainable Development:

www.ugandacoalition.or.ug

EASECA Catalogue: www.localsolutions.inforse.org

INFORSE 100% RE in Africa: inforse.org/africa/Vision2050.htm

www.inforse.org/SB58.php

