

Local Climate Sustainable Energy Solutions in Global Stocktake (GST) Why, How and From Where

Welcome by the organisers INFORSE – SusWatch Kenya, - INSEDA - SE

Moderator: Judit Szoleczky, INFORSE, Santosh Patnaik, CANSA

East Africa:

Promoting local solutions as important climate and development solutions in East Africa

Mary Swai, TaTEDO, INFORSE-East Africa, Tanzania (@)

Launch: 100 % Renewables Scenario – Uganda

Richard Kimbowa, UCSD, INFORSE East Africa Chair (@)

**Local Solutions in GST, 100 % Renewables Kenya,
Key message from East Africa**

Nobert Nyandire, Suswatch Kenya

**Europe: Paris compatible scenarios for reducing
emissions with transition to 100% RE, EE, sufficiency,
key message for GST from Europe**

Gunnar Boye Olesen, Sustainable Energy, Denmark INFORSE-Europe

South Asia:

Promoting local activities in South Asia supported by
eco-village development initiatives *Anzoo Sharma, CRT Nepal*

Successes with local solutions in South Asia & their promotion

Sanjiv Nathan, INFORSE South Asia & INSEDA, India

Launch of database, documenting successful local solutions

Abdul Arif, Grameen Shakti, Bangladesh

Local Solutions in the GST, Why and How

Dumindu Herath, IDEA, Sri Lanka

Comments:

Stephen Nzioka, Ministry of Energy, Dep. RE Kenya

Dr. Thusitha Sugathapala, Delegation of Sri Lanka

Dialogue, Conclusion

Proceedings: <https://www.inforse.org/cop27.php>

Sustainable Energy Solutions in Global Stocktake (GST)
Why, How and from Where

Paris compatible scenarios for reducing emissions in Europe with transition to 100% renewable energy, energy efficiency and energy sufficiency, key messages for GST for Europe

Gunnar Boye Olesen

INFORSE-Europe and SustainableEnergy (Denmark)

INFORSE-Europe

European part of International Network for Sustainable Energy

- Network of 60+ European CSOs
- A European civil society voice for renewables, efficiency, sufficiency
- 100% Renewable energy scenarios and strategies
- Sufficiency, EU FULFILL project
- Active on EU Climate EU policies
- East-West cooperation, now supporting Ukrainian CSOs



INFORSE-EUROPE

International Network for Sustainable Energy



UNFCCC COP27 SIDE EVENT - Sharm El Sheikh, Egypt - Local Climate - Sustainable Energy Solutions in GST.

Why, How and from Where // INFORSE - INSEDA - SusWatch Kenya - SE 12/11 2022, 15:00-16.30 Room: Memphis

Paris Agreement Scenarios for Europe – towards 1.5°C

- **CLEVER, bottom-up 100% renewable energy with sufficiency**, equity-based material limits, by negaWatt, INFORSE-Europe and others
- **PAC**, Paris Agreement Compatible Scenario by CAN-Europe, EEB a.o.
- INFORSE-Europe, 100% renewable energy scenario, sustainable bio.
- LUT University, European Energy System Based in 100% RE
- Aalborg University etc. Smart Energy Europe: 100% Renewable Energy
-and many more



Electricity for Fossil Free Europe 2040

Enough
Renewables
for 100%
Renewable
Energy:

(from PAC Scenario)

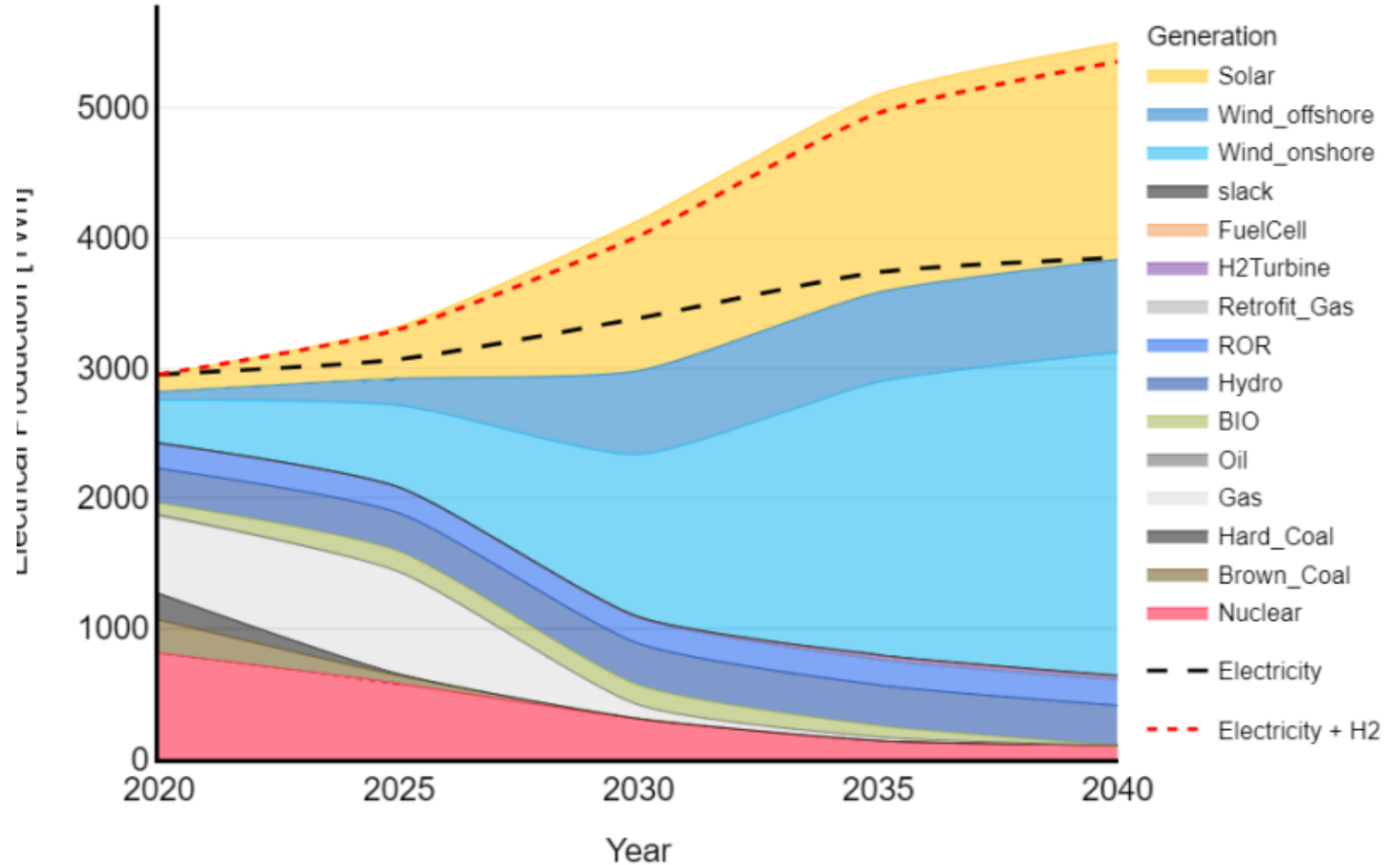


Figure 5: European electricity generation mix, in TWh

More Efficient Use of Energy

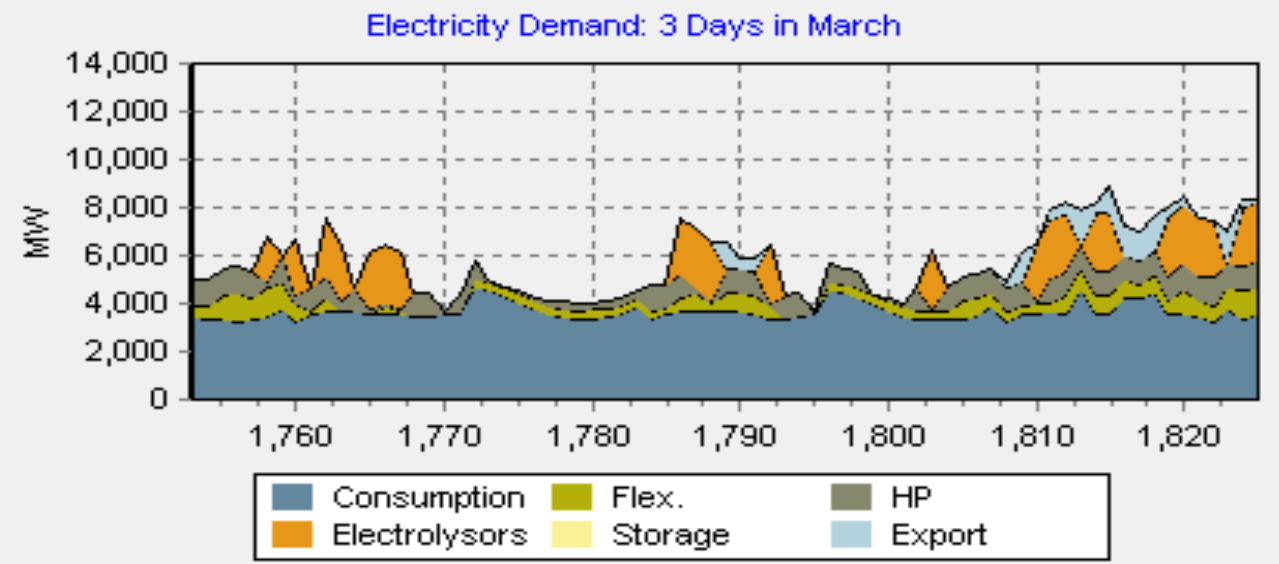
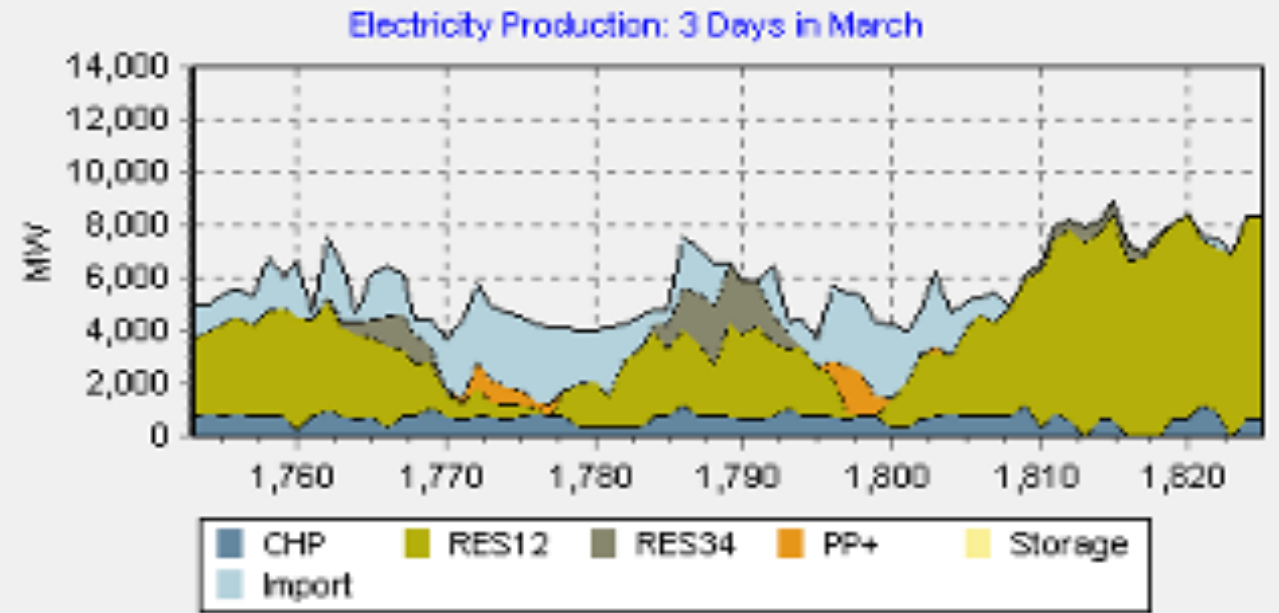
- Large potential: we can save 45% heat in European buildings (bpie.eu)
- Electricity savings potential of at least 20% (INFORSE-E for Denmark)
- Change to heat pumps can save further 2/3 of energy for heating, but with more electricity use
- Change to electric cars can save 2/3 of energy for driving, but with more electricity use

Energy Sufficiency Can Save More than just energy efficiency: Danish Study showed 20% of private / household energy use

Energy form	Sufficiency measure
Space heating	Reduce dwelling size, advice, etc.
Space heating	Reduce in-door temperature
Electricity	Reduce laundry
Electricity	Electricity savings
Hot water	Labelling of taps and showers
Hot water	Reduce bath/shower
Petrol/diesel	sustainable mobility, plan

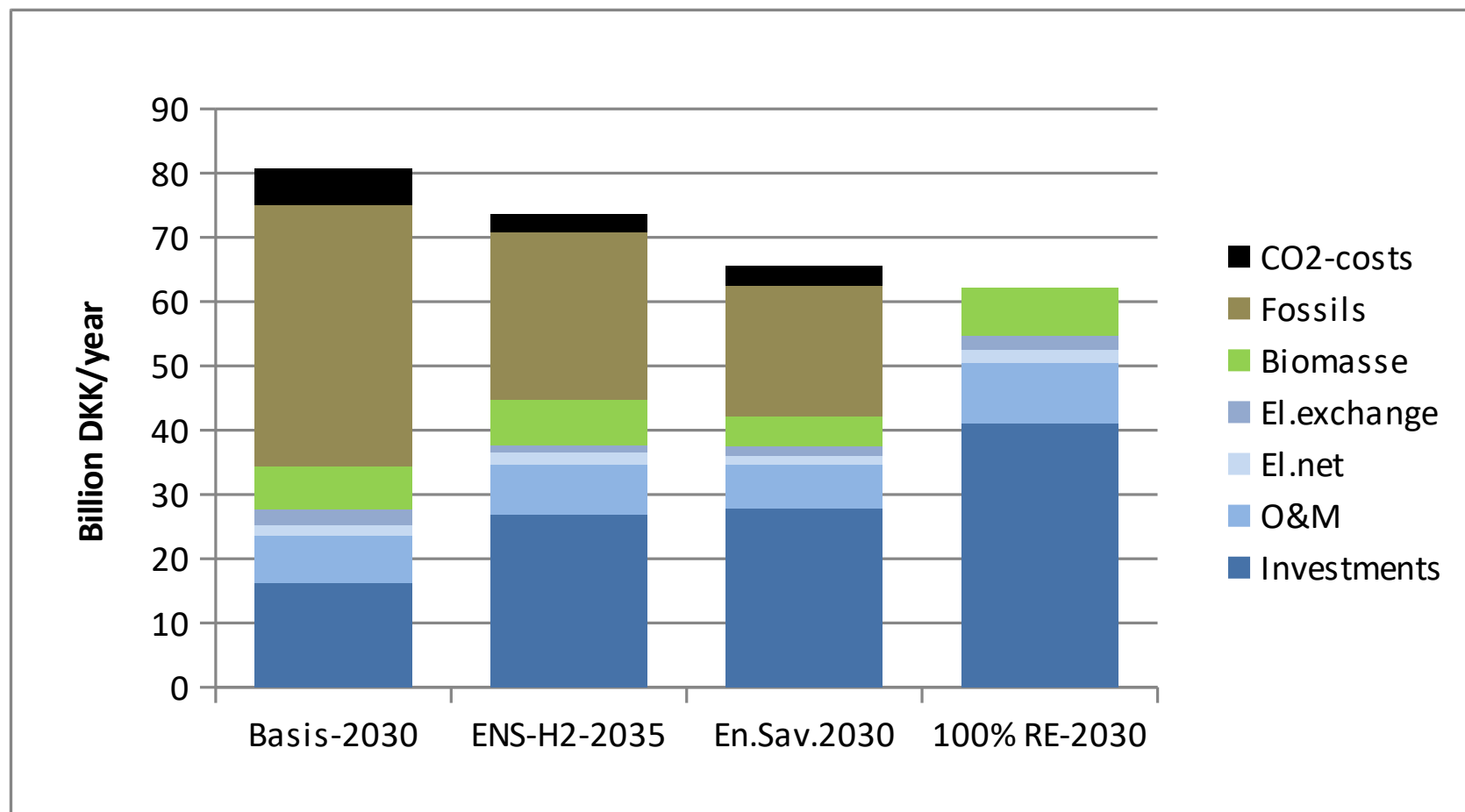
Energy Form	Sufficiency measure
Petrol/Diesel	Improved railway, frequent trains
Petrol/Diesel	Urban planning, 15 min. City
Petrol/Diesel	Super bicycle paths
Petrol/Diesel	Reduced road speed, 100 km/h
Petrol/Diesel	More expensive parking
Petrol/Diesel	Less support for commuting
Petrol/Diesel	Roadpricing

Smart electricity system can balance renewable supply and demand 24/7



Good economy in the sustainable energy transition

(graph from Danish Scenario)



Messages for GST

- How do NDCs treat policies for energy sufficiency / sustainable lifestyles?
- Are NDCs and LT-LEDS leading to fossil fuel phase-out and 100% renewable energy ?

GST should report on this and consider it for new NDCs



Thank you

More information:
Gunnar Boye Olesen
INFORSE-Europe
www.inforse.org/europe

