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

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

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

Moderator: Judit Szoleczky, INFORSE, Santosh Patnaik, CANSA

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 scenarions 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
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

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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

<table>
<thead>
<tr>
<th>Energy form</th>
<th>Sufficiency measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Space heating</td>
<td>Reduce dwelling size, advice, etc.</td>
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<tr>
<td>Space heating</td>
<td>Reduce in-door temperature</td>
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<tr>
<td>Electricity</td>
<td>Reduce laundry</td>
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<tr>
<td>Electricity</td>
<td>Electricity savings</td>
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<td>Hot water</td>
<td>Labelling of taps and showers</td>
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<tr>
<td>Hot water</td>
<td>Reduce bath/shower</td>
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<tr>
<td>Petrol/diesel</td>
<td>sustainable mobility, plan</td>
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</tbody>
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<tr>
<td>Petrol/Diesel</td>
<td>Improved railway, frequent trains</td>
</tr>
<tr>
<td>Petrol/Diesel</td>
<td>Urban planning, 15 min. City</td>
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<tr>
<td>Petrol/Diesel</td>
<td>Super bicycle paths</td>
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<tr>
<td>Petrol/Diesel</td>
<td>Reduced road speed, 100 km/h</td>
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<tr>
<td>Petrol/Diesel</td>
<td>More expensive parking</td>
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<tr>
<td>Petrol/Diesel</td>
<td>Less support for commuting</td>
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<tr>
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<td>Roadpricing</td>
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Smart electricity system can balance renewable supply and demand 24/7.

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Good economy in the sustainable energy transition (graph from Danish Scenario)

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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