



# **Sustainable Energy at ICLEI – Local Governments for Sustainability**

**Sustainable Energy Team**  
ICLEI World Secretariat

Accelerating the imperative: Green  
technology Deployment

**Symposium**

November 1, 2023  
WIPO Premises, Geneva



# ICLEI - Local Governments for Sustainability

ICLEI – Local Governments for Sustainability (known as “ICLEI”) is a global network working with more than 2,500 local and regional governments committed to **sustainable urban development**.

Active in 125+ countries, we influence sustainability policy and drive local action for low emission, nature-based, equitable, resilient and circular development.

**2,500+ LOCAL  
AND REGIONAL  
GOVERNMENTS**

**ACTIVE IN  
125+ COUNTRIES**

**300+ EXPERTS IN  
24 OFFICES  
WORLDWIDE**

# How We Work: Five ICLEI Pathways



**LOW EMISSION  
DEVELOPMENT**



**NATURE-BASED  
DEVELOPMENT**



**EQUITABLE  
AND PEOPLE-  
CENTERED  
DEVELOPMENT**



**RESILIENT  
DEVELOPMENT**



**CIRCULAR  
DEVELOPMENT**

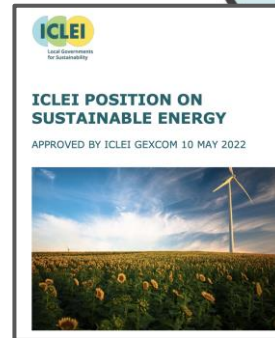
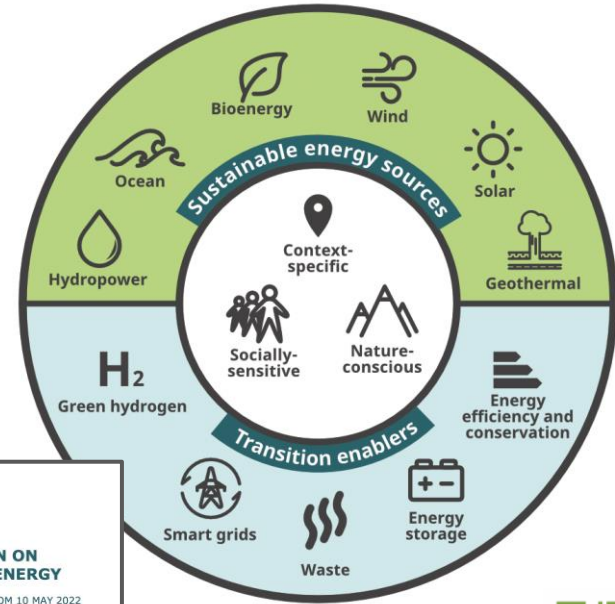
As a compass to shape and manage our actions in a rapidly changing world and to transform our cities, towns and regions, we will drive action through five critical, strategic and interlinked pathways that are the basis of sustainable urban development.



# ICLEI's Sustainable Energy position

Building on the principles of sustainable development as defined by the United Nations, the definition of sustainable *energy* involves meeting present energy needs without compromising the ability of future generations to meet theirs.

We consider that such an energy system must rest on the foundation of energy sources whose use in the present does not compromise their availability in the future, i.e. renewable energy. It is important that these renewable energy (RE) sources are applied in context-specific, nature-conscious and socially sensitive ways.

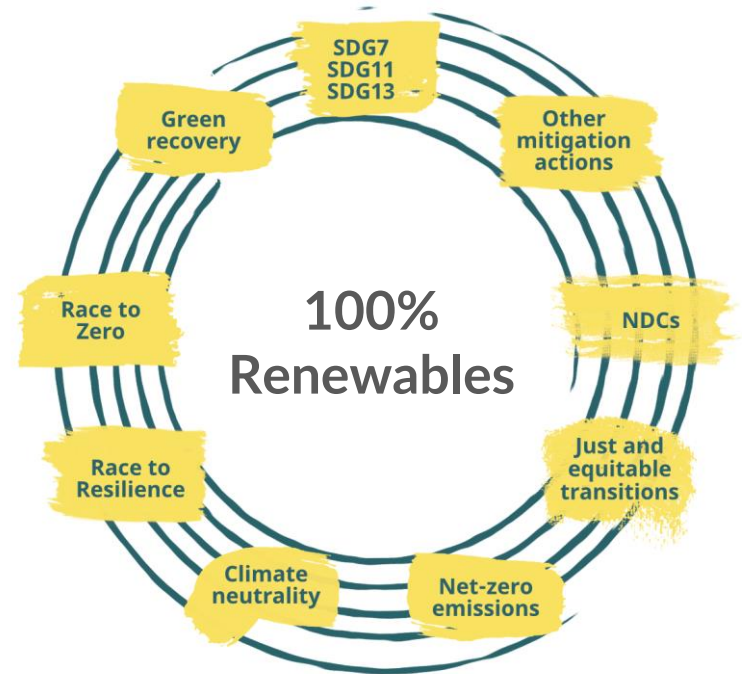


[Read the full text here](#)

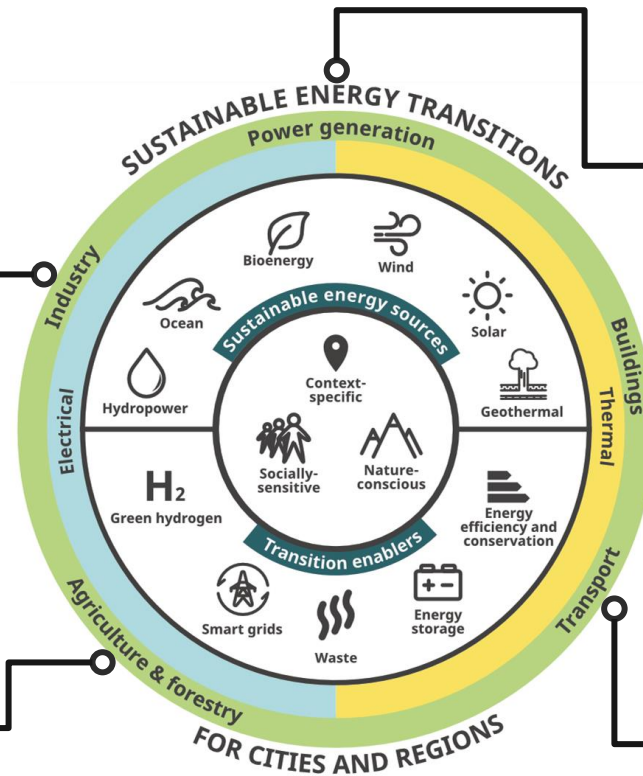


# 100% RE as a cornerstone

- **Decarbonizing** energy supply through renewable energy sources, deployed in a socially- and environmentally-conscious way, is key to achieving various climate and socio-economic goals
- Renewable energy can help enhance **climate adaptation and resilience efforts**
- Improved **access** to clean and modern energy and associated welfare benefits
- Use of SE sources will improve **energy security and independence** at local and national levels
- Zero operational emissions from SE (GHGs, pollutants) brings additional benefits
- Transitioning towards a sustainable energy system is a cornerstone on the way to **net-zero emissions** and a just transition for the present and future



# Where can we act?



- Early-stage support
- Policy recommendations
- Demand response
- Smart grids and digitalization

- Supporting bankable RE projects
- Decentralized generation with DREs
- Energy access and security

- Energy efficiency & conservation
- Integrated RE
- RE and nature-based solutions for heating/cooling

- Renewables in Agriculture - Agrivoltaics, etc.
- Urban agriculture - addressing energy and food security
- CLEANaction - Energy + Nature

- Sector coupling: e-mobility charging integration
- Integrated urban planning

# Our work

INTERNATIONAL	NATIONAL	LOCAL AND REGIONAL
<ul style="list-style-type: none"> <li>• Advocate for a global energy transition, including <b>RE, efficiency and conservation</b> <ul style="list-style-type: none"> <li>• Improve <b>channelling of resources</b> to highlighting local action at a global level</li> </ul> </li> <li>• <b>Shift away</b> and divestment from fossil fuels</li> </ul>	<ul style="list-style-type: none"> <li>• Support <b>vertical integration</b> through multi-level governance to amplify local ambition and action at a national level for NDCs and SDGs</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Capacity building, knowledge dissemination and peer exchange;</b></li> <li>• <b>Energy strategies</b> and action plans, and support in developing <b>viable projects;</b></li> <li>• Improving <b>data</b> availability and reporting at a local level</li> <li>• Highlighting the benefits of renewable energy</li> </ul>

**PROJECTS**







**INITIATIVES**



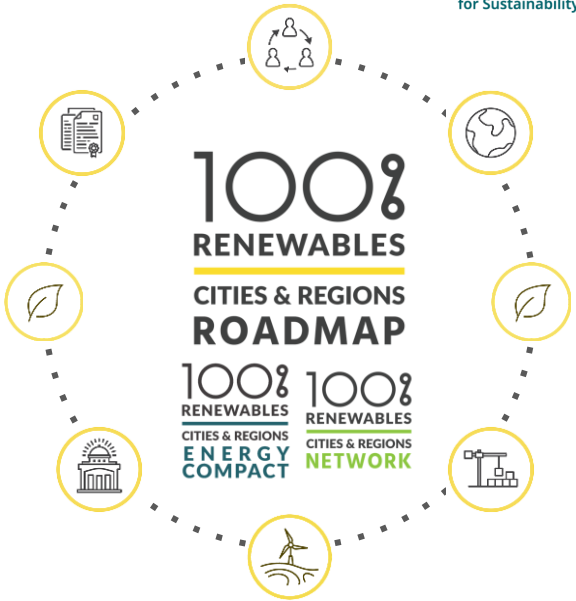









# Our work on 100% Renewables



Developing roadmaps towards 100% renewable energy

Assistance with local policy development

Enabling access to finance and developing bankable RE projects

Foster multilevel governance and strengthen capacities of key stakeholders



# From Planning to Implementation: Sustainable Energy



Local project implementation team      Data collection      Energy modelling      Feasibility assessment of possible pathways



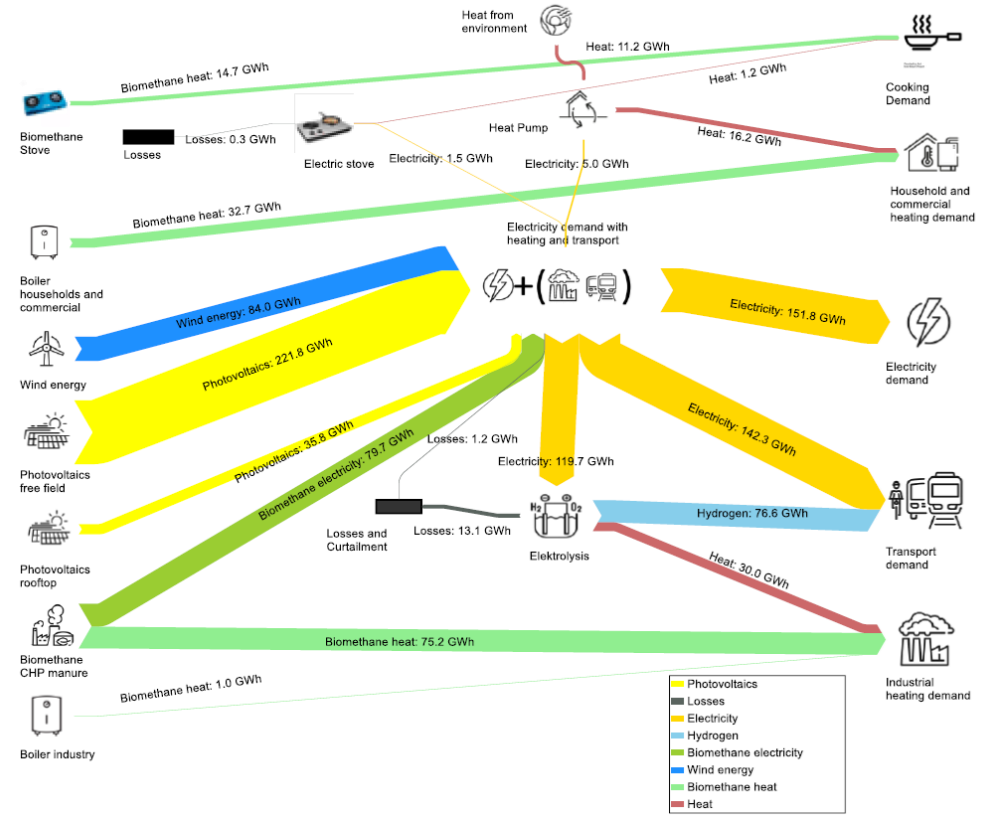
Technologies, and cost-efficient scenarios identified (prioritizing RE & EE)      Policy framework and action points on identified transition pathways including procurement      Local strategies (i.e. roadmaps)



Implementation mechanisms for sustainable energy roadmaps      Bankable projects      PPFs, MFIs, MDBs, Impact Investors, etc.

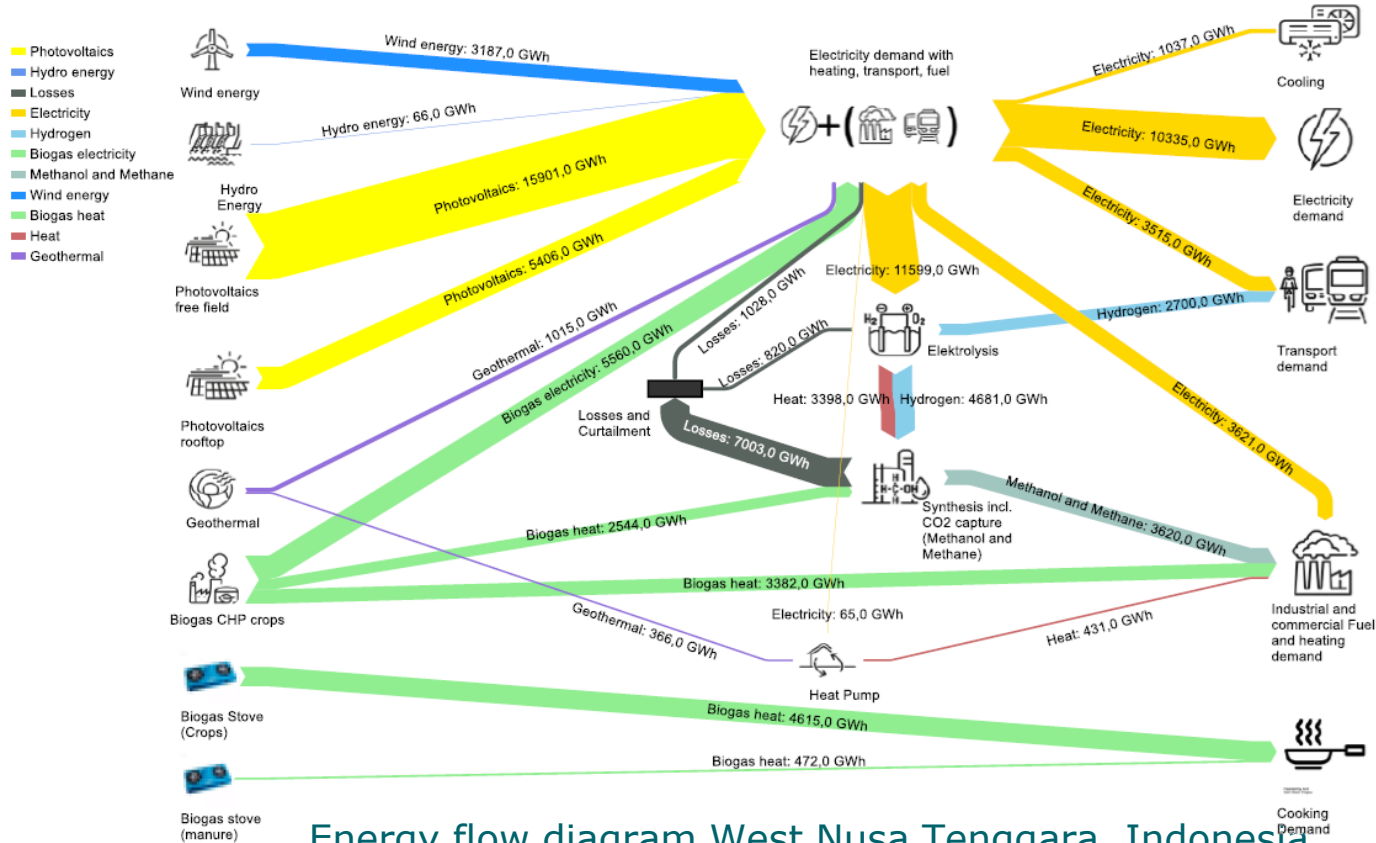


# Energy Modelling Scenarios



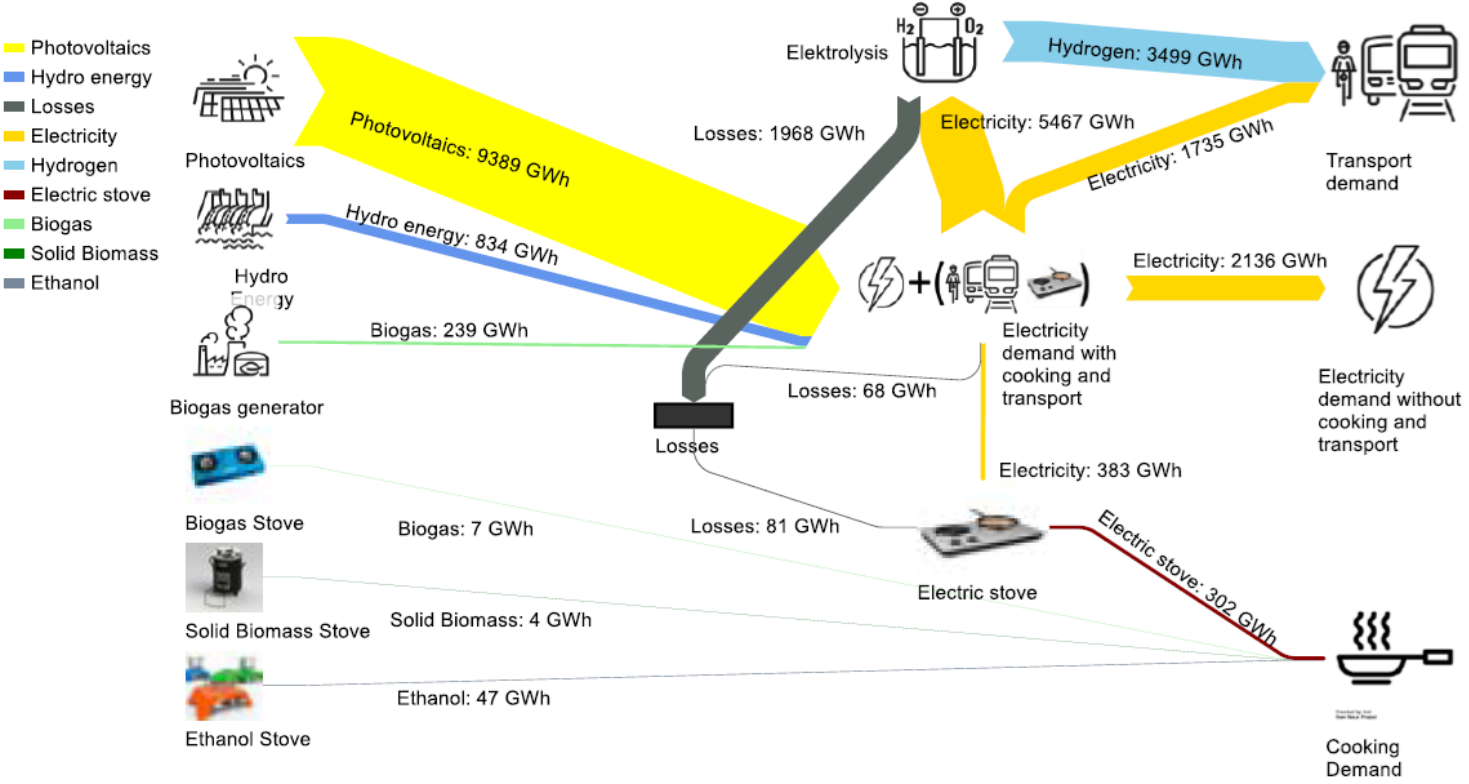
Energy flow diagram Avellaneda Argentina

# Energy Modelling Scenarios



Energy flow diagram West Nusa Tenggara, Indonesia

# Energy Modelling Scenarios



Energy flow diagram Kisumu, Kenya



# Supporting local governments in the energy transition



## Case studies



## Stakeholder engagement



## Knowledge and guidance



## Monitoring and reporting



## Factsheets



## Knowledge sharing and peer exchange



## Virtual exchanges



## Technical assistance and access to finance



# Our Partners



GLOBAL COVENANT  
of MAYORS for  
CLIMATE & ENERGY



REN21

**Cities Alliance**  
Cities Without Slums



WORLD  
RESOURCES  
INSTITUTE

**NDC  
PARTNERSHIP**  
ACCELERATING CLIMATE  
AND DEVELOPMENT ACTION



Local Governments  
for Sustainability



CITIES  
NETWORK



C40  
CITIES  
CLIMATE LEADERSHIP GROUP



WorldFuture Council



CLIMATE &  
CLEAN AIR  
COALITION  
TO REDUCE SHORT-LIVED  
CLIMATE POLLUTANTS



**renac**  
renewables academy



**UN HABITAT**  
FOR A BETTER URBAN FUTURE

# Contact us

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