

22 June 2021, 11.30 - 12.45 EST (17:30 PM - 18:45 PM CEST)

Renewable Energy - A Key Milestone on the Road to Net-Zero



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HIGH-LEVEL DIALOGUE ON
ENERGY

UNITED NATIONS, NEW YORK, SEPTEMBER 2021



Local Governments
for Sustainability



REN21



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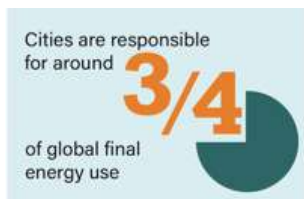
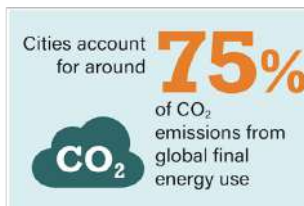
Renewable Energy – a Key Milestone to Net-zero

Lea Ranalder

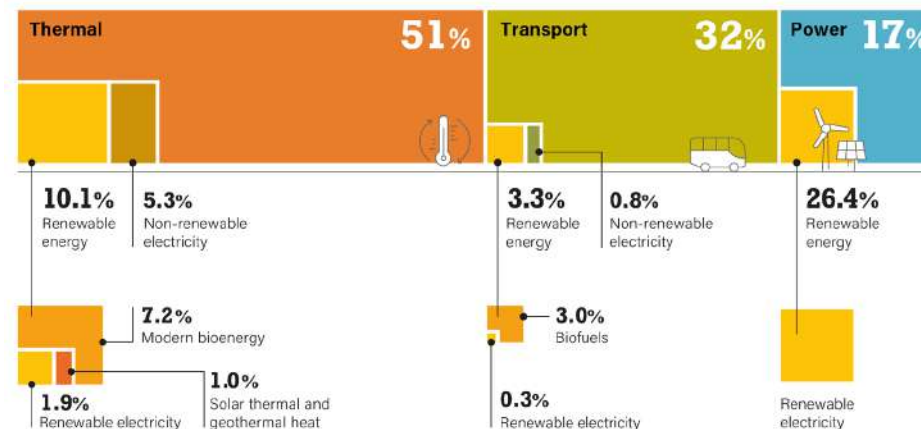
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CITIES ARE HIGH IMPACT AREAS



Renewable Share of Total Final Energy Consumption, by Final Energy Use, 2017



Note: Data should not be compared with previous years because of revisions due to improved or adjusted methodology.
Source: Based on IEA data.

CITIES RECOGNISE RENEWABLES AS AN OPPORTUNITY

OVER 1,300 CITIES HAVE A RENEWABLE ENERGY TARGET AND/OR POLICY



One billion people live in a city with a renewable energy target and/or policy = **25%** of urban population

Policies as of the end of 2020:



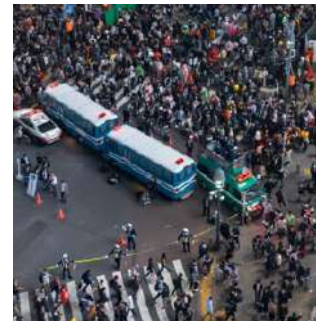


CITY GOVERNMENTS LEAD BY EXAMPLE ACROSS ALL SECTORS

Scaling up
renewable
electricity



Decarbonising
urban transport



Decarbonising heat



Expanding
infrastructure

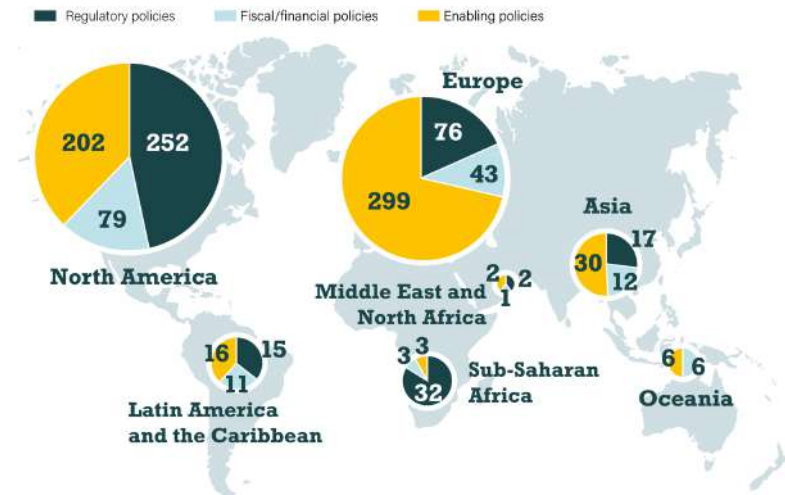




POLICIES SUPPORT THE SCALE-UP OF RENEWABLES

ALMOST 800 CITIES HAD POLICIES SUPPORTING RENEWABLE ENERGY

Renewable Energy Policies in Cities, by Type and Region, 2020



Note: Some city governments have more than one renewable energy policy. Policies in buildings apply in the buildings sector and can include power, heating and cooling and/or transport elements.



Regulatory policies Fiscal/financial policies Enabling policies



DRIVERS FOR RENEWABLES IN CITIES

Clean air and a healthy environment

Climate change mitigation and adaptation

Local economic development



Energy justice and democracy

Stable and secure energy supply

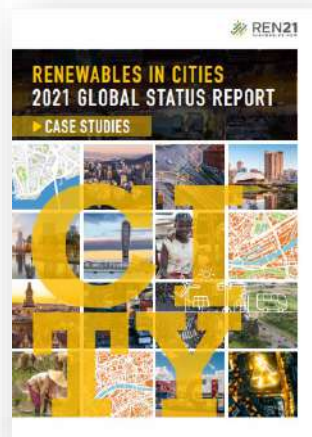
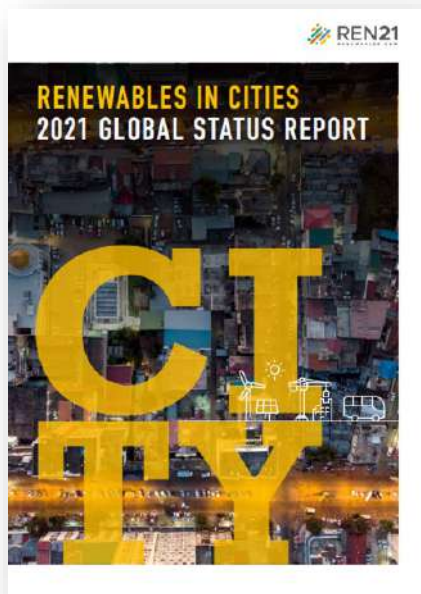


Poverty alleviation and improved energy access

Reducing expenses and managing costs

RENEWABLES IN CITIES 2021 GLOBAL STATUS REPORT

THE ONLY STOCK-TAKING OF CITIES' ENERGY TRANSITION EFFORTS WORLDWIDE





On behalf of:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



Covenant of Mayors
in Sub-Saharan Africa

of the Federal Republic of Germany

This programme is co-funded by



European Union



www.ren21.net





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for Sustainability

Renewable Energy - A Key Milestone on the Road to Net-Zero

Side Event

**High-Level Dialogue on Energy |
Ministerial Thematic Forums**

Rohit Sen

Head of Climate & Energy Action
ICLEI World Secretariat

21 June 2021



100% Renewables Cities and Regions Roadmap

100% Renewables Cities and Regions Roadmap Project

100%
RENEWABLES
CITIES & REGIONS
ROADMAP



Addressing climate emergency requires the unprecedented transformation and immediate transition to renewable energy across all sectors.



Support **nine cities and regions in three countries** to develop a roadmap towards **100% renewable energy** and effectively implement local **climate and energy action**.



Enable participating local and regional governments to develop financially viable and **bankable renewable energy projects** and explore access to public and private investment.



Contribute to the respective national **climate and energy targets**, as reflected in the **Nationally Determined Contributions (NDCs)**.



Support **local policy development** that enhances energy security, improves energy efficiency and stimulates the local economy.



This project will foster **multilevel governance policy dialogues**, **strengthen capacities of key stakeholders** through various workshops and put that collaboration at the heart of the sustainable energy transition.



The project is funded by the International Climate Initiative (IKI) of the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) in Germany.

Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety

based on a decision of the German Bundestag

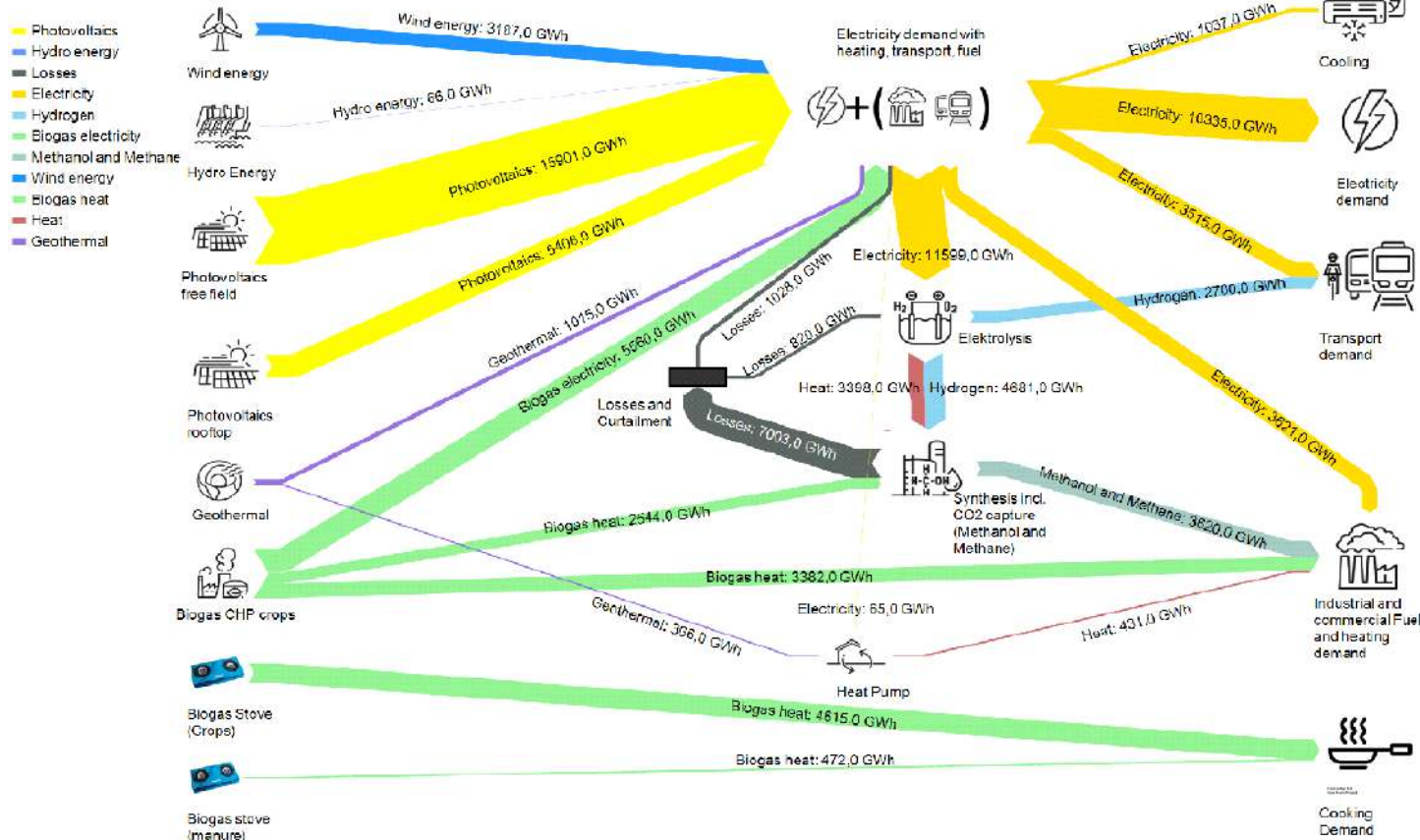
100% Renewables Cities and Regions Roadmap Project

Participating Cities & Regions

100%
RENEWABLES
CITIES & REGIONS
ROADMAP



Energy Systems Modelling



Sankey Diagram of Energy Flow for 100%RE scenario in West Nusa Tenggara Province, Indonesia

Similar results achieved in the initial rounds of energy systems modelling for Avellaneda in Argentina and Kisumu County in Kenya

100% RE Action Plan

100% RENEWABLES
CITIES & REGIONS
NETWORK

100% RENEWABLES
www.go100re.net

Data
Collection

Energy
Modelling

Feasibility
assessment of
the possible
pathways for
100% RE
transition

Technologies
and cost-
efficient
scenarios
identified
(prioritizing
RE & EE)

Policy framework
and action
measures on the
identified transition
pathways

 **Fraunhofer**
ISE

 **IRENA**
International Renewable Energy Agency

 **renac**
renewables academy



Local strategies (Roadmap) for 100% RE by deep-dive cities/regions.



Implementation mechanisms for the local strategies towards 100% RE



Proposals for 3 - 9 bankable RE (+EE) projects



PPFs, MFIs, MDBs, Impact Investors, etc.



100% Renewables Cities & Regions Network

Supporting you in the transition to renewable energy



For local/regional governments committed to or considering **100% renewable energy targets**.

Address the climate emergency, build resilient energy systems, use local renewables, and ensure access to clean, sustainable energy for all.

Access support:

- technical guidance,
- capacity building,
- networking and peer learning opportunities.

We welcome all subnational governments, committed to or considering 100% RE targets, to become a part of this Network.



100% Renewables Cities & Regions Network:
<https://100renetwork.iclei.org>

Contact



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100% Renewables Cities & Regions Roadmap

<http://renewablesroadmap.iclei.org/>



THANK YOU!

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PANEL DISCUSSION

HOW LOCAL GOVERNMENTS ARE IMPLEMENTING ENABLING POLICY FRAMEWORKS FOR NET ZERO



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**Thank you for
joining us today!**



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