



EU4Energy renewable energy activities

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EU4Energy Programme

- Regional Programme concentrating on the eleven countries in the Caucasus (Armenia, Azerbaijan, Georgia), Eastern Europe (Belarus, Moldova, Ukraine) and Central Asia (Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan)
- Supports the goals of the Focus Countries to implement sustainable energy policies based on strong energy statistics and analysis
- Topics stem from country priorities: energy markets, energy security and sustainable energy
 - 1st policy forum: best practices in renewable energy policy
 - In total, 13 policy fora w/ 14 topics in 2017-2019 (incl. grid integration of variable renewables, renewable heat, bioenergy, solar energy...)

918

attendees at IEA
for EU4Energy
events

14

topics covered

Grid integration of variable renewables,
Renewable heat,
Bioenergy,
Solar energy,...

161

statisticians
attended events

Highlight: Bioenergy policy forum in Vienna, April 2018

Overview by international experts

Focus Country Perspectives

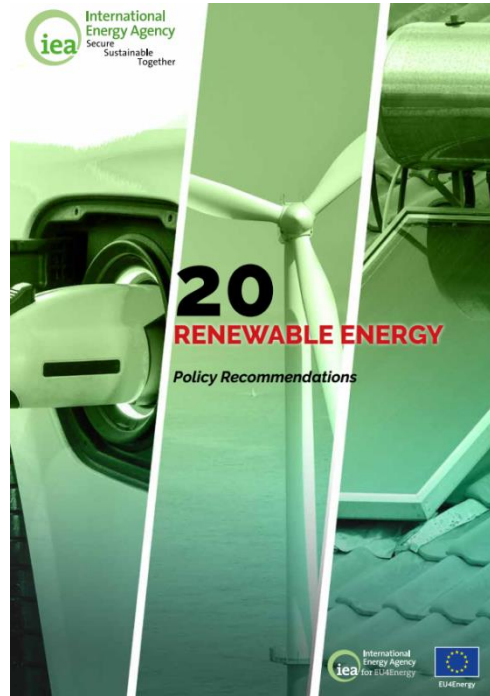
Experience from other countries

Discussions & Case studies

SESSION 1: Overview	
<u>Presentations and Q&A</u>	Key considerations for bioenergy heat and power markets (IEA) Gathering evidence on use of solid biofuels (IEA for EU4Energy) Overview of UNECE activities on wood energy (UNECE)
SESSION 2: EU4Energy country perspectives	
<u>Presentations and Q&A</u> EU4Energy Country Case Studies	Rural Bioenergy in Georgia Bioenergy in district heating in Ukraine Renewable Energy Policy Implementation in Moldova
<u>Discussion</u>	Barriers and drivers to bioenergy for heat in EU4Energy countries
SESSION 3: International best practice (1)	
<u>Presentations and Q&A</u> International Case Studies	Pellet trade (European Pellet Council) Biomass for heat in Austria (Austrian Biomass Association) Developing a rural biomass economy – Bioenergy villages (Austrian Energy Agency) Biogas from agricultural residues and waste (European Biogas Association)
<u>Discussion</u>	How to overcome barriers
SESSION 4: International best practice (2)	
<u>How to overcome barriers</u> International Case Studies	EU policy on renewable heating & cooling (European Commission) Air pollution & modern boilers (Bioenergy 2020+) Sustainability (Dansk Energi)

20 Renewable energy policy recommendations

- 20 recommendations provide guiding principles for policy-making
- Based on best practice observed across IEA member states and partner countries.
- Can be adapted to suit specific national and local circumstances.
- Cover key sectors: renewable electricity, heating, cooling and transport



Free download (requires login):

<https://bit.ly/2Vvts3s>

Examples:

#9 - Innovation support:

"Identify priority technologies or priority areas of innovation in which countries have specific areas of expertise [...]"

#17 - Renewable heating data:

"[...] To help develop and monitor effective policies, it is important that countries acquire more reliable heat statistics, both for heat generally and for renewable heat specifically. [...]"

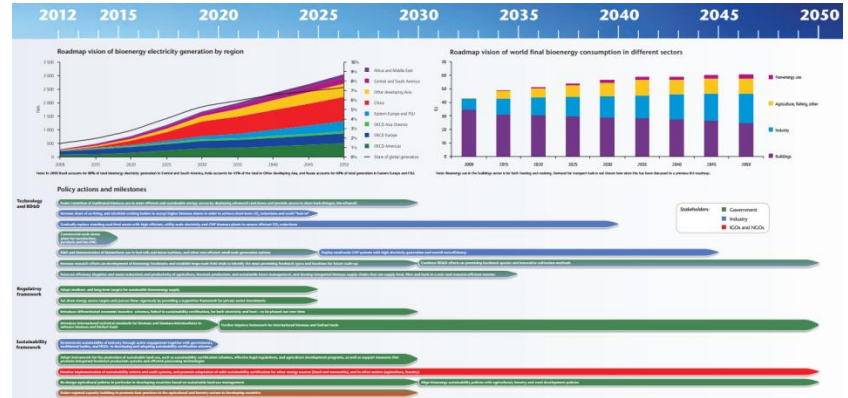
EU4Energy in-depth country reviews and roadmaps

• In-depth country reviews (IDRs)

- 2020 & 2021: Updated versions of the country reviews published in 2015 as a part of the INOGATE Programme
- Focus on energy security, sustainable development, energy markets and energy data management and use
- Chapter on renewable energy, but it is also covered from other angles: energy data, climate change, environment and energy technology research, development and innovation (RDI)

• Roadmaps

- One roadmap per country on a specific topic
- Several roadmaps linked to renewable energy



Roadmap topics (examples):

- Georgia: Biomass
- Moldova: Grid integration of variable renewables
- Uzbekistan: Solar energy

+ generic roadmap on renewable energy



Discussion: 20 Renewable energy policy recommendations

- Has your country analyzed the relevance of the recommendations?
- Have you already taken measures to implement some of the recommended activities? Which ones?

FUNDAMENTALS

1. Renewable energy targets
2. Strategies and action plans
3. Renewable energy data
4. Monitoring and evaluation of policies and measures

CROSS-SECTORAL

5. Level playing field in energy pricing
6. Coupling of electricity, heat, cooling and transport sectors
7. Foster public support for renewables at local level
8. Ensure sustainability
9. Innovation support

RENEWABLE ELECTRICITY

10. Adequate remuneration
11. Grid access
12. System integration of variable renewable resources (VRE)
13. Tackle non-economic barriers
14. Reduce the cost of financing

RENEWABLE HEATING AND COOLING

15. Integrate renewable heat and energy efficiency policies
16. Tackle barriers
17. Renewable heating and cooling data

RENEWABLE TRANSPORT

18. Tackle barriers
19. Shift to advanced biofuels
20. Electric vehicles

Discussion: RESMAP tool

Background:

- RESMAP Geospatial mapping tool for sustainable energy developments
 - developed within the INOGATE programme in 2014-2016
 - A tool to encourage investment in wind and solar projects in the beneficiary countries

Question:

- Experiences using the tool?
- Has it been updated/used?
- Lessons learned?

Discussion: Data on biomass

Background:

- Collecting data on current use of biomass for energy purposes (heating, cooking) is time-consuming and require resources
- Estimating biomass potential is necessary
 - **i)** to avoid unsustainable biomass use; and
 - **ii)** to model how much biomass could contribute in the national energy demand

Questions:

- Has the sustainable biomass potential been estimated in your country?
- Is the data availability a bottle neck for analysis?