



Food and Agriculture Organization
of the United Nations

Tracking progress in the uptake of renewable energy - Focus on bioenergy development

Work done by the UNECE/FAO Forestry and Timber Section

Group of Experts on Renewable Energy eleventh session

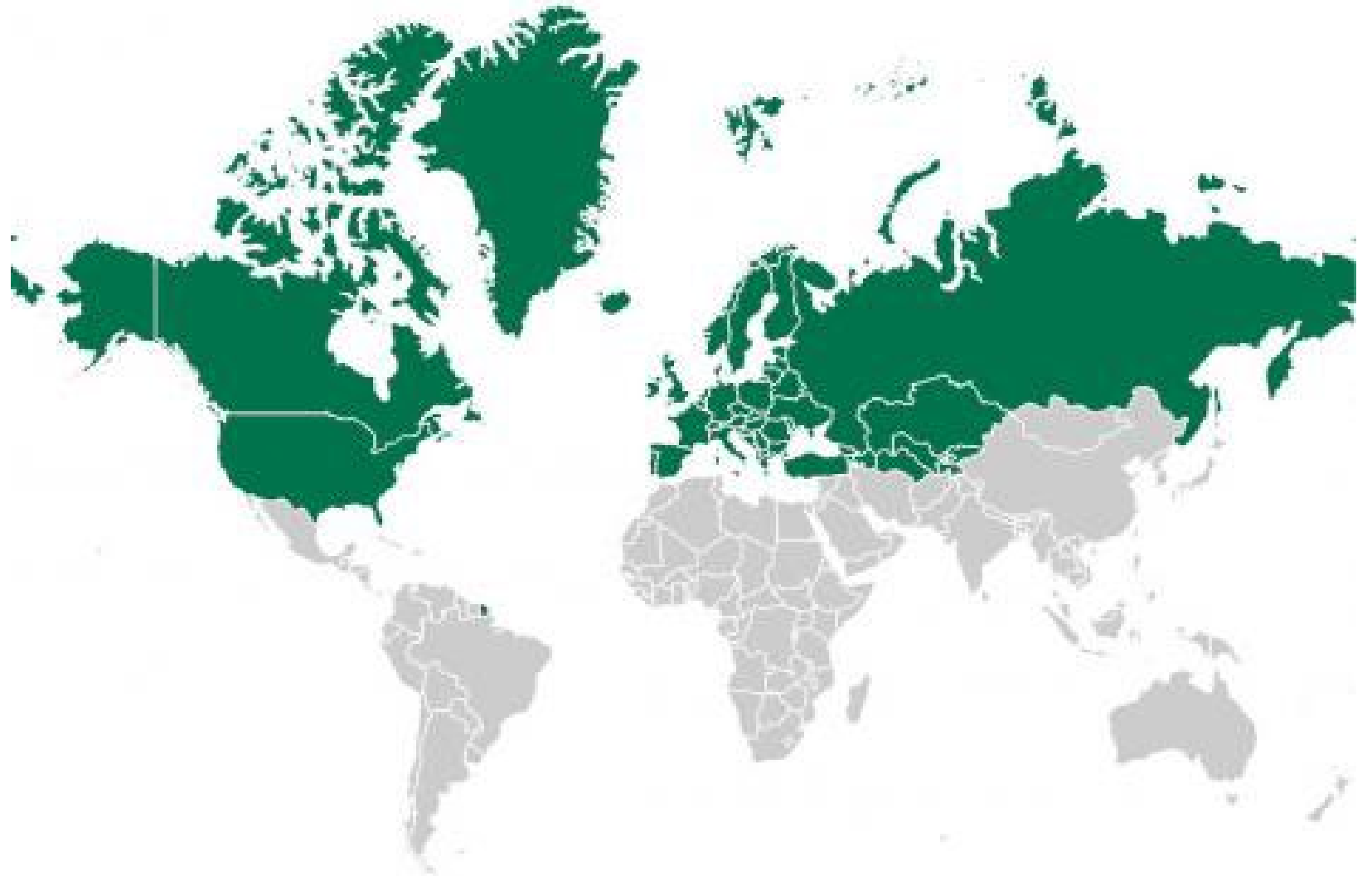
16/09/2024



Joint UNECE/FAO Forestry and Timber Section

The forest in the UNECE region:

- 41 % of the global total forest area
- 75% of global certified forest area
- 60% global industrial roundwood production
- >75% of global wood pellet production



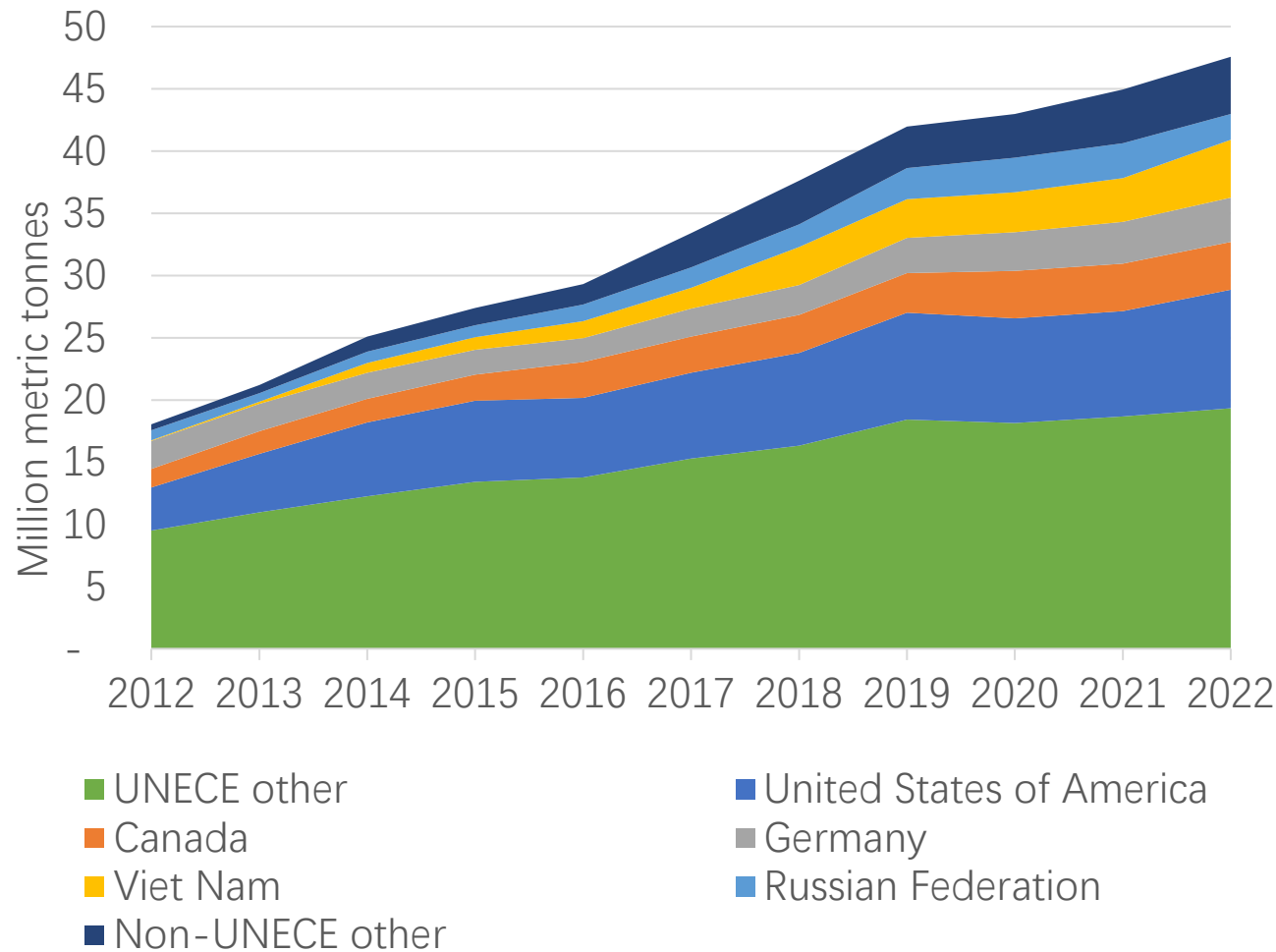
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Tracking progress in production and trade

Wood pellet production 2012-2022
(million metric tonnes)



- **Global commodity** with significant trade value/volume
- Specific **custom code** since HS rev. 2012
- Specific **code in the CPC** (Central Product Classification) Version 2.1
- **Joint data collection** - Intersecretariat working group (UNECE collaborating with Eurostat/FAO/ITTO)
- **Annual global survey** (Joint Forest Sector Questionnaire - production and trade)
- Established network of **national correspondents**
- **No differentiation by fuel quality** (industry standards, not UNECE standards)

Tracking progress in the uptake of all types of wood energy

Key question:

Who uses how much wood energy and where does the wood come from?

Data collection in one survey:

Joint Wood Energy Enquiry

Key features:

- Coordinated replies among national forestry, energy and waste experts (in tonnes dry matter)
- Compatible with [IEA-Eurostat-UNECE Energy Questionnaire Renewables and Waste](#)
- Every 2 years since 2009
- Ready for reporting on liquid wood-based biofuels

Key challenge:

- Volumes and use of post-consumer wood

<https://unece.org/forests/joint-wood-energy-enquiry>



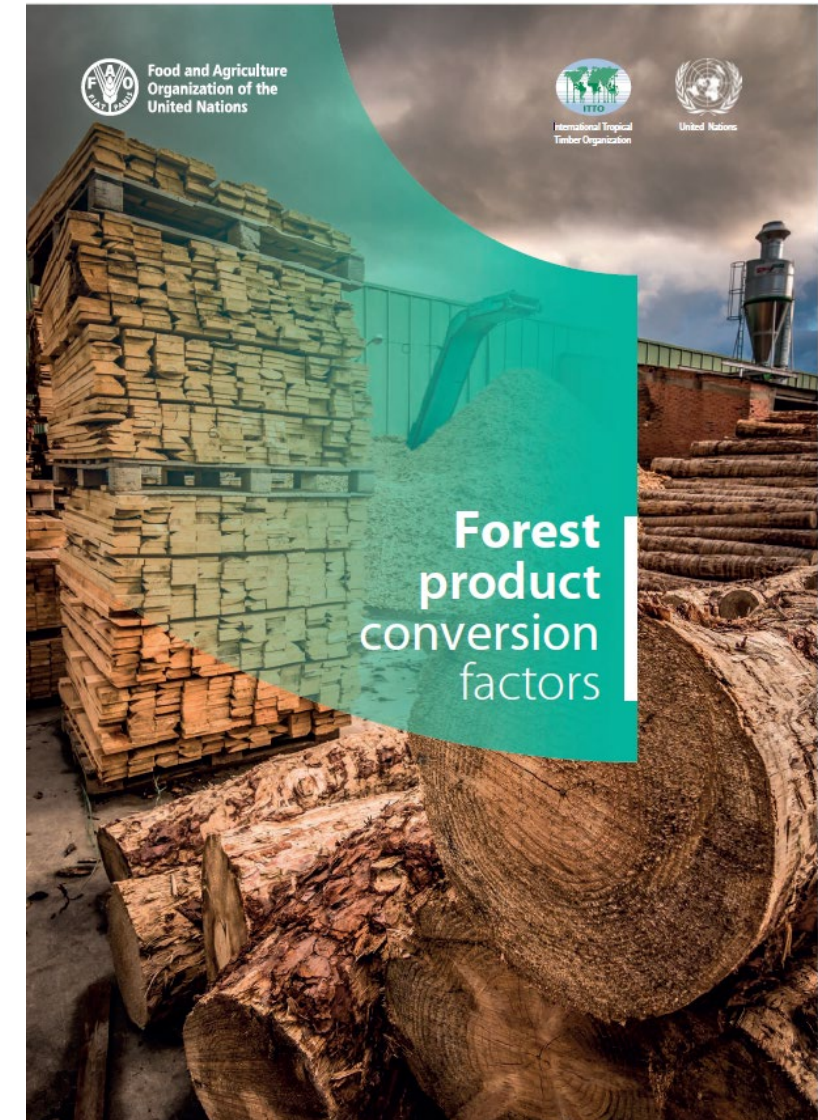
Tracking progress in the uptake of all types of wood energy

Biofuel quality standards could improve conversion factors (input-output efficiencies) of liquid wood-based biofuels.

No clear need for quality standards for solid wood-based fuels (such as wood chips, charcoal, pellets and briquettes).

Conversion factors are available for solid wood-based fuels.

<https://openknowledge.fao.org/server/api/core/bitstreams/eebaeee6-cd98-4b35-9143-21f96fad16af/content>



Ongoing and future work related to wood energy

Actively contribute to harmonizing and refining global classifications:

- Standard international energy product classification (SIEC) – (suggestion to create a **separate three-digit code for “solid wood processing residues”** – similar to “liquid processing residues” (i.e. black liquor from pulp production))
- Harmonized Commodity Description and Coding System (HS) – **add new products, improve definitions**
- Combined Nomenclature (EU) refine definition of processing residues – **add new products, improve definitions**

<https://unece.org/forests/joint-wood-energy-enquiry>



Informing Energy Policy and Just Transition

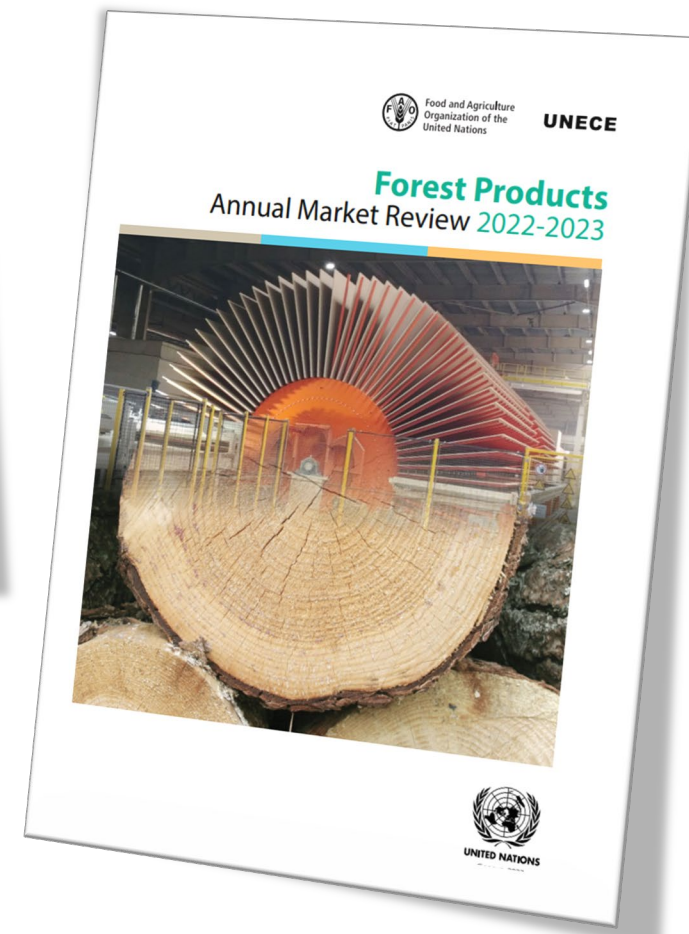
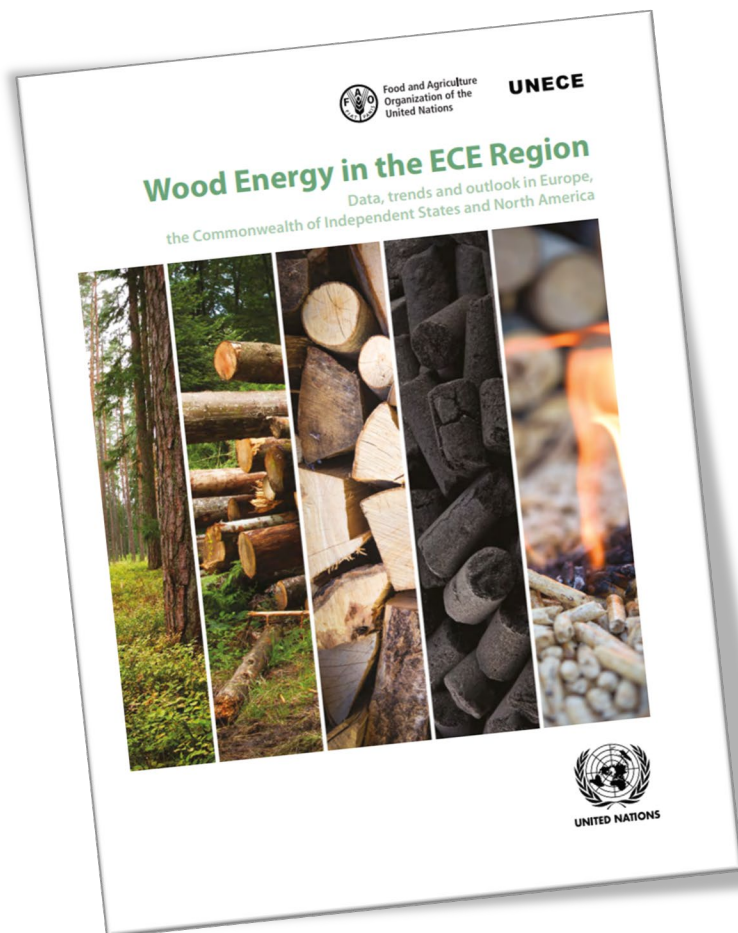
Wood Energy Role in **Energy Policy and Just Transition**

- The ECE/FAO Team of Specialists on Forest Products and Wood Energy Statistics is developing a data brief to **inform ongoing policy discussions on wood energy**, with overview of available data and metrics,
 - Insight into the impact of wood energy on forest resources, links to energy security, the degree of cascading use, and climate mitigation implications

Links to the **System of Environmental and Economic Accounting** (SEEA)

- Forest sector statistics including wood energy statistics are an important input to SEEA
 - Need to ensure classifications remain aligned
 - European Forest Accounts rely heavily on the Joint Forest Sector Questionnaire
- Links on wood energy could be strengthened

More information about wood energy...



Conveying the outcomes...

... of the Group of Experts on Renewable Energy eleventh session to the UNECE Team of Specialists on Forest Products and Wood Energy Statistics



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Thank you

19/09/2024

