

Cross-cutting and inter-sectoral cooperation to integrate renewable energy into energy systems

**Wood energy** 

**UNCEC/FAO** Forestry and Timber Section

**UNECE** Group of Experts on Renewable Energy

Tenth session 11-12 September 2023



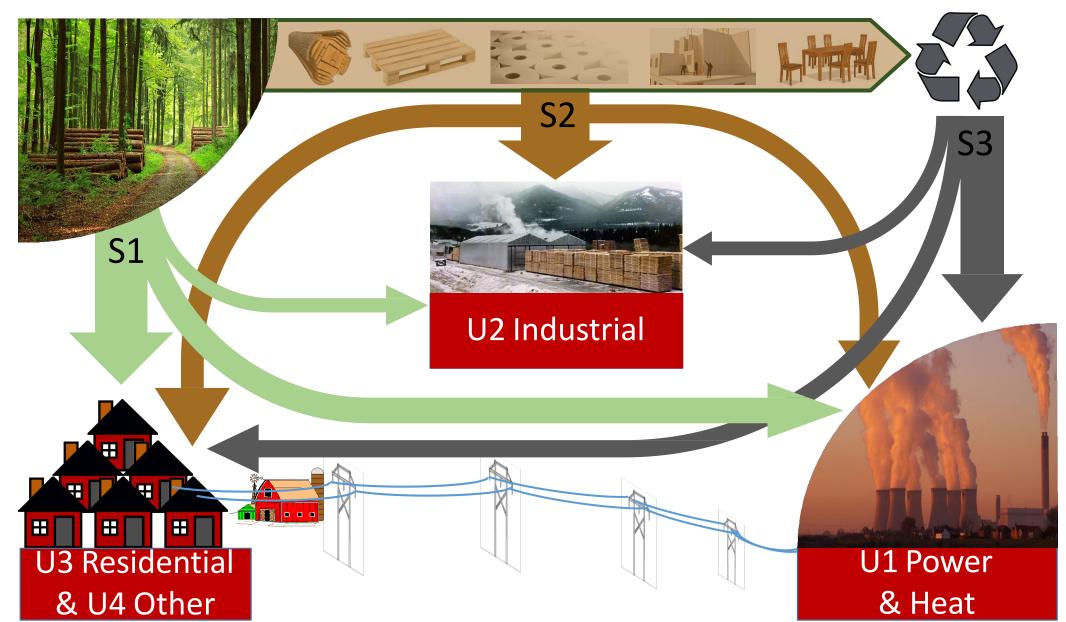
# UNECE/FAO Forestry and Timber Section

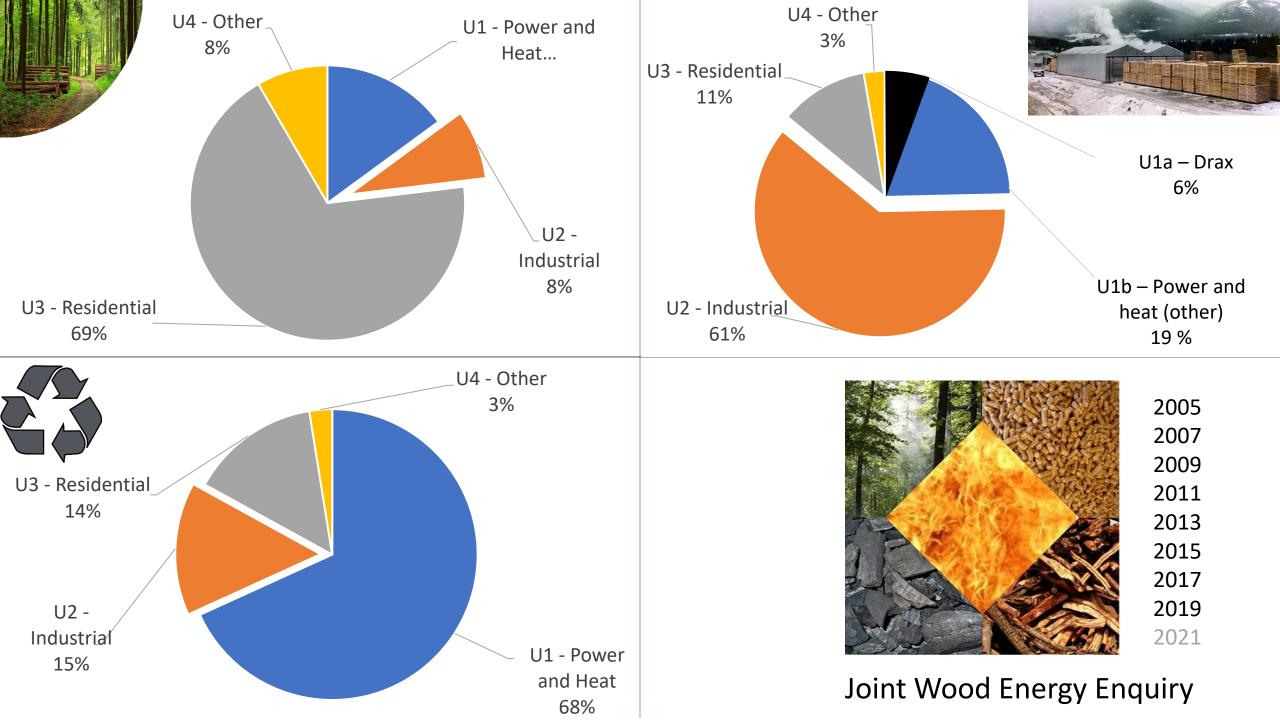
#### **Work Areas:**

- 1. Data, monitoring and assessment;
- 2. Policy dialogue and advice
- 3. Communication and outreach
- 4. Capacity building



# Sources and User of wood for energy





# Analyzing wood energy trends

#### Past

#### Current

#### **Future**

#### JWEE:

- Press release
- Fact sheet
- Country profiles
- Flatfile

#### **Annual production and trade:**

- FPAMR annual market assessment
- Forecast data wood fuel production y & y+1 (available in November)
- Country market statements

#### **Outlook Studies:**

- Forest Sector Outlook
  2010-2030 & 2020-2040
- High wood energy scenario
- Possible interaction with other policy targets (biodiversity, climate change, wood construction, etc.)







irgy has been the leading source of

le energy in the UNECE region for more Jecade, accounting for 35,4% of renewable supply for 31 countries, according to test results from the UNECE/FAO Joint Wood gy Enquiry (IWEE), For Austria, Cyprus, Finland,

ice, Germany, Ireland, Luxemburg, Serbia, Nenia, Sweden, Switzerland and the United ngdom, which consistently reported to JWEE over he last 10 years, total wood energy consumption increased

While wood removals from forests and other wooded are write wood removals from forests and other wooded are largest source of wood energy, this trend is showing sign wood fibres used for energy generation in the 31 countr Indirect sources, mainly by-products and residues from Fawdust, chips, or black liquor and processed wood-ba of wood from forests and other wooded areas accoun

energy purposes in these countries. Some countries with both a strong forest industry (e Some countries with both a strong forest industry te

Finland, Sweden and Canada have large shares of e the relative importance of the pulp and paper indu Wood pellets have soared in popularity across the consistently provided data for the past decade, f Consistently provided based on the pastage of the line of the land of the pastage of the land of the l

2017. In countries such as Belarus, Bosnia and reland, the Netherlands, Serbia, Slovak Repub Kingdom, on average, over 75% of the wood fi





### **Forest Products**

Annual Market Review 2021-2022



#### Wood energy on the rise in Europe

SDGs  $\triangleright$  Climate Change  $\triangleright$  Forestry  $\triangleright$  Sustainable Development  $\triangleright$ 

04 November 2022

For many people in economically well-developed countries of the UNECE region a wood stove or fireplace used to be a cosy way to heat a room in the cold season. This winter, however, the role of wood energy may dramatically change for many people out of sheer necessity.

A large part of the UNECE region is increasingly exposed to highly volatile prices of heating oil, natural gas and coal, forcing vulnerable groups of the population to switch back from gas and electricity for heating and cooking and heavily polluting wood stoves.

This vulnerability exposes the urgent need for a faster transition to sustai energy sources, concluded participants of the 80<sup>th</sup> session of the Commi Forest Industry (COFFI), which is taking place from 2 to 4 November 2023 chopped, stacked, stored, and given enough time to dry and burnt in a wood can be a climate friendly alternative with minimal emissions.

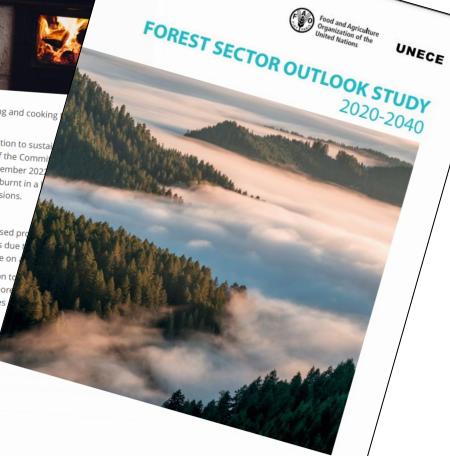
#### UNECE region dominates global trade in wood energy

COFFI highlighted that while the consumption of key wood-based pro wood-based panels and sawn wood) now faced sharp declines due the wood energy markets (pellets and traditional fuelwood) are on

Countries in the European Union (EU) burned about 23.1 million to 2021.It is expected that their consumption in 2022 will reach more increase even more in the future due to soaring fossil fuel prices

The UNECE region dominates the global trade in wood energy b and Canada) and importers (United Kingdom). Some 10.6 milli ground and uniformly compressed wood pellets were traded i the United Kingdom—as the biggest importer of wood pellets biggest single consumer, a power plant which imported and

UNITED NATIONS



# Analyzing wood energy trends

#### Current

Natural gas supply security and availability in Europe

- Record demand for fuelwood in second half of 2022 and early 2023
- Export ban of fuelwood from various countries (Serbia, Bosnia and Herzegovina, Ukraine, etc.)
- Pulp and paper recycling in central Europe depends on natural gas shifting to biomass will take time
- Boosting log prices for beech sawlogs (few months in 2022)

Trade restrictions for any commodity under HS 44 (including pellets) by the EU on imports from the Russian Federation and Belarus:

- alternative sources for the +2 million tonnes of wood pellets



## Thank you!

**UNCEC/FAO** Forestry and Timber Section

Website: <a href="https://www.unece.org/forests/wood-energy">www.unece.org/forests/wood-energy</a>

Contact: <u>florian.steierer@un.org</u>

UNECE Group of Experts on Renewable Energy

Tenth session 11-12 September 2023

