

Joint Wood Energy Enquiry (JWEE) Preliminary results for the reference year 2021*

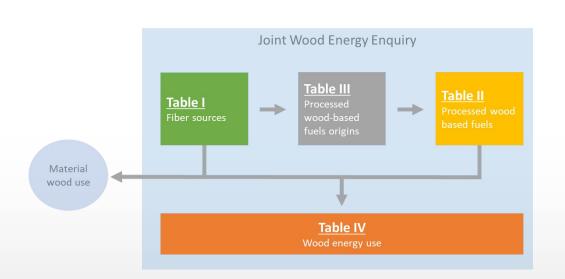
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Outline

- 1. JWEE overview
- 2. Submissions to the JWEE
- 3. Preliminary Results



1. JWEE overview



JWEE tables

total wood use

- Table I: wood fiber sources
- Table II: processed woodbased fuels
- Table III: processed wood based fuels origins

energy use only

• Table IV: wood energy use



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- **JWEE overview**
- **Submissions to the JWEE**
- **Preliminary Results**



JWEE 2021

- **Total: 23 submissions**
- 21 member states filled table IV
- 11 member states filled table III

- 9 member states that provided data in 2019 didn't provide data in 2021
- 4 member states resumed submitting data

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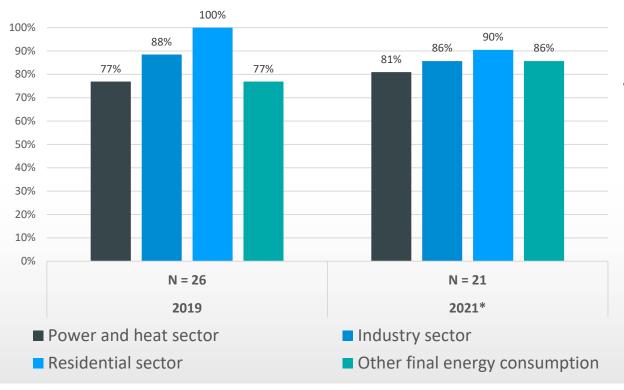
Timeline

#-number of countries in database with wood energy use in table IV





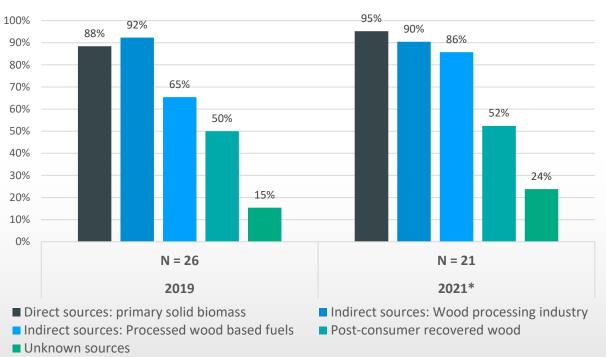
Shares of member states with information on sectors



Member states do have **good information on sectors** that consume wood energy



Shares of member states with information on forest products sources



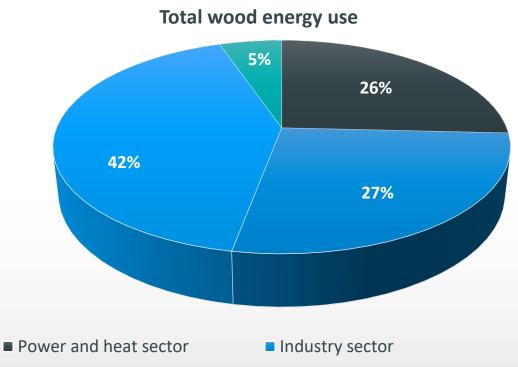
- In 2021 most member states did report data on wood sourced from
 - Direct soruces
 - Indirect sources
 - ...wood processing industry
 - ...processed wood based fuels
- Data on post-consumer recovered wood is available in almost half of the member states
- The share of wood energy sourced from unknown sources increased



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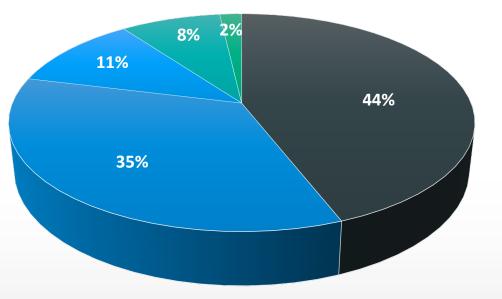
- In 2021 a total of 370 million m³ of **wood resources** have been used for energy generation in the 21 participating member states
- The largest wood energy consuming sectors were
 - the residential sector
 - the **industry sector** and
 - the **power and heat sector**.

- Residential sector

Other final energy consumption



Total wood energy use



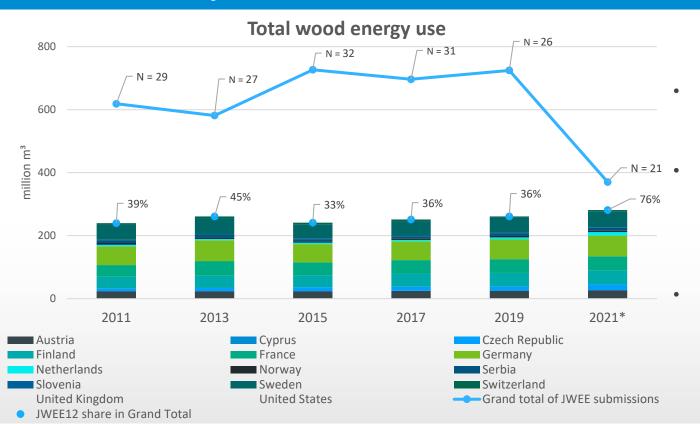
■ Indirect sources: wood processing industry

- Direct sources: primary solid biomass
- Indirect sources: Processed wood based fuels Post-consumer recovered wood
- Unknown sources

In 2021 a total of 370 million m³ of wood resources has been used for energy generation in the 21 participating member states

- Wood energy is mainly sourced from
- forests and non-forest land (i.e. primary sources) and
- wood processing industries (i.e. indirect sources)



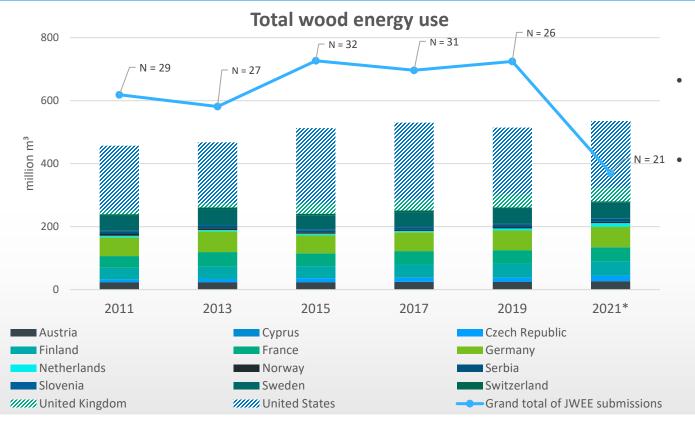


12 countries consistently participated in the JWEE reporting since 2011 (JWEE12)

Wood energy consumption in JWEE12-countries account for **33-45% of the total wood energy consumption** in JWEE reporting years 2011 to 2019

In 2021 JWEE12-countries account for **76% of total wood energy consumption** in JWEE

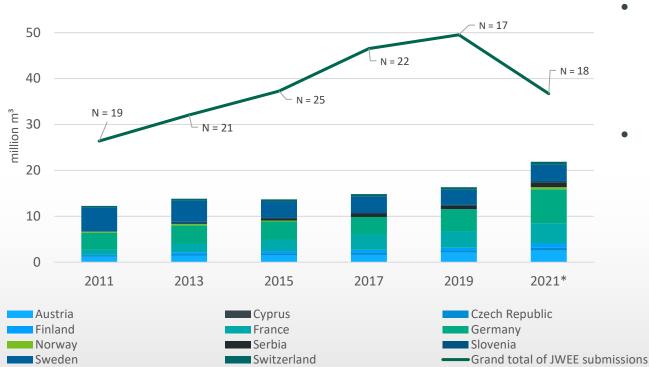




In 2021 JWEE12-countries account for **76% of total wood energy consumption** in JWEE

Wood energy consumption in the USA and UK, which accounted for 45-55% of total wood energy consumption in previous years, is missing in the 2021 dataset





- In **2021** the reported total consumption of wood pellets and briquettes was 36 million m³
 - Preliminary results of 11 member states that reported consumption of wood pellet and briquettes suggest that consumption further increased (2019-2021: **+10 million m³**)





Thank you for your attention!

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JWEE information and data:

https://unece.org/joint-wood-energy-enquiry-2