

# **ToS on Forest Products & Wood Energy Statistics**

## **Wood Energy ad-hoc task team**

Consuelo Brandeis, Sebastian Glasenapp, Francisco Aguilar

44<sup>th</sup> Session of the Joint FAO/UNECE Working Party on Forest Statistics, Economics,  
and Management, May 31-June 2, 2023. Geneva, Switzerland

# Task

- Review of methods of data collection to better respond to policy questions on wood energy supply-chain

# Activities to Date

- **Two TEAM meetings, plus e-mail communications**

- June 22, 2022:**

- The group identified a set of interest areas related to wood energy policy issues.
    - Those ideas were organized and paired with currently available metrics from the JWEE that could be used to address each identified wood energy policy issue.

As a follow-up action, an online survey of team members was conducted. The survey asked ToS members to rate the top 3 topics, by level of interest

- October 12, 2022:**

- Review survey results with the team
    - During the call, the team proposed extending the list from 3 to 4 relevant topics.
      - Sustainability, Cascading Use, Climate Change Mitigation, and Energy Security
    - The ad-hoc team also identified three general wood energy related questions, to use for initial analysis.

- **Report of activities sent to ToS Leadership (December, 2022)**

# Team Survey Results

## Team survey results - overview

### Ad-hoc task group:

Total: 68 members

Replies: 28 (41%)

### Task:

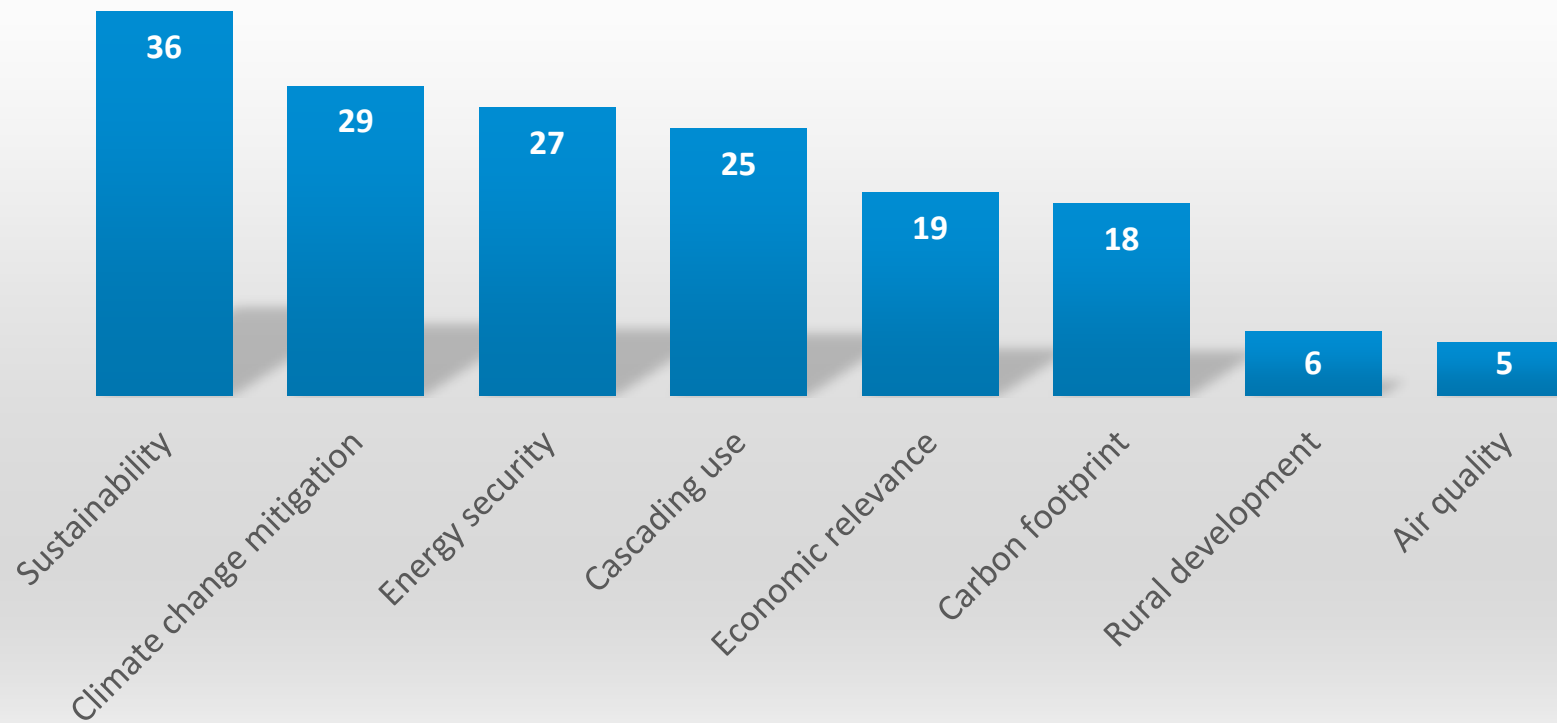
Assign 8 policy issues to rank 1-3.

### Issue Categories:

- Air quality
- Carbon footprint
- Cascading use
- Climate change mitigation
- Economic relevance
- Energy security
- Rural development
- Sustainability

# Team survey results - score

## Score:



rank 1  $\hat{=}$  3 points  
rank 2  $\hat{=}$  2 points  
rank 3  $\hat{=}$  1 point  
score  $\hat{=}$  sum of points

# Results from group's work

- Relevant Topics
- Metrics
- Questions

# Relevant Topics of Interest

1. **Sustainability:** Evaluating the impact of wood energy use on global forest resources
2. **Cascading use:** Promotion of efficient use of wood resources
3. **Climate change mitigation:** Role of wood products (incl. wood energy) in climate change mitigation strategies
4. **Energy security:** Contribution to domestic energy supply



# Metrics

indicator	Description	Sustainability	Cascading use	Climate change mitigation	Energy security
1	Roundwood removals from forest and outside forest (1000m3)	x			
2	Roundwood supply from forest and outside forest including net trade (1000m3)	x			
3	Total calculated domestic supply of woody biomass (1000m3)	x			
4	Total primary energy supply (TPES), (ktoe)				
5	Share of renewables (RES) in TPES				
6	Total wood energy supply, volume basis (1000 m3)	x			x
7	Total wood energy supply, energy basis (ktoe)	x			x
8	Average wood energy consumption (m3/capita)	x			x
9	Fuelwood consumption per rural inhabitant (m3/inhabitant)	x			x
10	Pellets consumption per inhabitant (kg/capita)		x		
11	Share of net annual increment directly used for energy (%)	x	x		x
12	Share of Roundwood supply directly used for energy purposes (%)	x	x		x
13	Share of calculated domestic consumption of woody biomass used for energy purposes (%)	x	x		x
14	Share of woody biomass in TPES (%)			x	x
15	Share of woody biomass in RES (%)			x	x
16	Share of wood energy generated from black liquor, energy basis (%)		x	x	x
17	Imported wood fuel as share of wood energy, volume basis (%)				x

# Questions For Initial Analysis

- What is the composition of the wood energy industry feedstocks (virgin/plantation/residues/etc.)?
- Is production of wood energy from forests sustainable in the long term?
- How is consumption of wood energy distributed across sectors (industrial/residential/commercial). Implications for future demand?

# Guidance from ToS, May 30<sup>th</sup> mtg

- Summarize the findings of the evaluation of wood energy statistics, documenting information on the identified issue categories, the metrics currently produced from JWEE data, and identify data limitations and gaps.