

Diverse wastes and residues – current uses

→ Table 3

Feedstock	Supply	Share	Material / Energy	Used for	Ranking
Used paper	145 TWh	42%	Material	→ Pulp & paper	
UCO, animal fat	59 TWh	17%	Energy	→ Aviation / shipping – conv. biofuels → Road transport – conv. biofuel	
Biowaste, sewage sludge etc.	67 TWh	20%	Energy	→ Space heat → District heat → Process heat	
				→ Electricity (biogas / biomethane)	
Used wood	73 TWh	21%	Energy	→ Process heat	
				→ Electricity	
Total biomass supply (2,280 TWh)					
Forest wood				15% Wastes	Agricult. crops Agricult. residues

Diverse wastes and residues – uses 2050

→ Table 4

Feedstock	Supply	Share	Material / Energy	Used for	Ranking
Used paper	178 TWh	45%	Material	→ Pulp & paper	
Animal fat	7 TWh	2%	Materials	→ Oleochemicals	
UCO	45 TWh	11%	Energy	→ Aviation – conv. biofuel	
Biowaste, sewage sludge etc.	89 TWh	23%	Energy	→ Space heat → District heat → Process heat (> 500 °C) → Electricity (biomethane)	
				→ Process heat (>500°) → Electricity	
Used wood	73 TWh	19%	Energy		
Total biomass supply (2,664 TWh)					
Forest wood				15% Wastes	Agricultural crops Agricultural residues

Favourable → unfavourable

Agora Energiewende (2026): from Ifeu (2026), based on Agora Energiewende (2023) and Agora Agriculture (2024). Notes: The share of total supply for the diverse wastes and residues category includes used paper, which is assumed recycled. Black liquor is considered under forest wood. UCO stands for used cooking oils. 2020 and 2050 data based on the Agora biomass scenario for energy and materials.