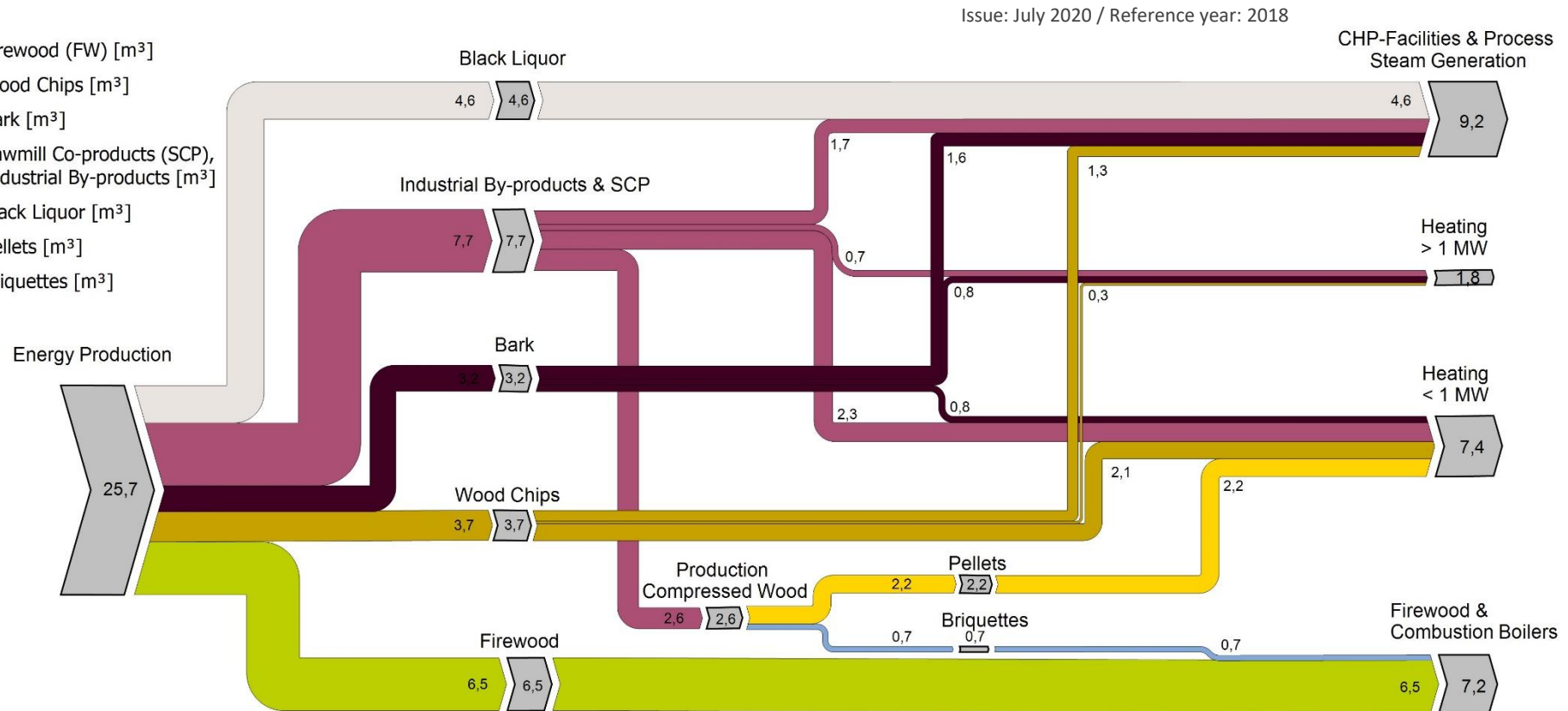


Wood Flows in Austria – Energy Production

Legend

-  Firewood (FW) [m³]
-  Wood Chips [m³]
-  Bark [m³]
-  Sawmill Co-products (SCP),
Industrial By-products [m³]
-  Black Liquor [m³]
-  Pellets [m³]
-  Briquettes [m³]



All values given in million m³; values <0,1 million m³ are not shown; numerical values partially rounded

Compiled by Lorenz Strimitzer, Martin Höher, Austrian Energy Agency & Kasimir Nemestothy, Austrian Chamber of Agriculture

General Remarks on the Presentation of the “Wood Flows in Austria – Energy Production”

More information concerning this presentation is included in the accompanying description, which can be downloaded together with the illustration from klimaaktiv.at/energieholz.

Short Description

For reasons of representability the Woodflow exclusively portrays fuel wood assortments used within the domestic consumption – pellets and briquette volumes used for export and import purposes, are summarized in the main illustration within the assortment compressed wood. This illustration of the “Wood Flows in Austria – Energy Production” takes into account the conversion factors for wood fuel assortments, which were established in consultation with key stakeholders, and can be downloaded from the following website klimaaktiv.at/energieholz.

Wood Assortments

Black Liquor	Residual lye from the production of pulp can be used for producing energy.
Industrial By-products and Sawmill Co-products (SCP)	Shavings, wood chips, edgings, slabs, pellets, briquettes etc.
Bark	The bark from sawmills and the timber industry is run as a separate stream opposed to firewood.
Wood Chips	Wood chips are acquired from the forest and other sources and are used for energy purposes.
Firewood (FW) incl. Bark	Designated by the TFR as timber used for the purpose of fuel wood and energy purposes in log wood boilers. The flow of fuel wood is displayed including bark.
Pellets	Wood pellets made from sawmill by-products, which are essentially used in pellet boilers for the production of heat.
Briquettes	Wood briquettes made from sawmill by-products and used for the production of energy.

Nodes

Energy Production	Wood assortments from the main illustration are combined in this node for the purpose of energy production. The continuation in this illustration shows different ways of energy recovery from these wood assortments and from which facilities the energy is gained (CHP-facilities, woodchip-, pellet-, briquette-, and firewood boilers).
Production of Compressed Wood	This includes the production of pellets and briquettes from sawmill by-products and wood residues.
Firewood & Combustion Boilers	This node summarizes the manually fed boilers and furnaces.
Heating < 1 MW or Heating > 1 MW	This node summarizes automatically fed boilers and differentiates between fuel power capacities smaller than 1 MW and larger than 1 MW.
CHP Facilities & Process Steam Generation	The quantities of wood and wood-like products that are mentioned here are those used in CHP facilities and in the production of heat and electricity.

Sources

For the creation of this illustration data was used from various sources, such as the Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (BMK), the cooperation platform Forest Wood Paper (FHP), the Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW), the Statistics Austria and own calculations by the Austrian Energy Agency and the Austrian Chamber of Agriculture.

Contact

Lorenz Strimitzer

klimaaktiv Energieholz; Austrian Energy Agency, Mariahilfer Straße 136, A-1150 Wien

Tel +43 1 5861524 – 0, Fax +43 1 5861524 – 340

E-Mail: Lorenz.Strimitzer@energyagency.at; Internet: klimaaktiv.at/energieholz, energyagency.at

Kasimir P. Nemestothy

Austrian Chamber of Agriculture, Schauflergasse 6, A-1014 Wien

Tel +43 1 534418594, Fax +43 1 534418529

E-Mail: k.nemestothy@lk-oe.at; Internet: lk-oe.at