

Description of best practice

Best practice	
Title	Cascading use of wood
Picture	
Domain	Sustainable management and planning, cascading use of wood
Source of wood	Forests
Location & implementers	Spačva Ltd., Vukovar-srijem County, Croatia
Actual status	Running
Approach	The Croatian company demonstrates how to fully utilize wooden raw material, from its delivery and first processing in the depot to each part of the production process. In every processing step, another end product is created and even wooden residues are used for energy production. At the moment, the potential use of ash for agricultural fertilizer is assessed.

CASCADING USE OF WOOD IN SPAČVA COMPANY








Wooden raw material which has been brought to the wooden raw material depot, during the production processes, is fully utilized. Every processing step creates one final product. Wooden residues are used for energy production and potential of ash usage as agricultural fertilizer is being researched.

Cascading use of wood in the Spačva's practice, starts on the wooden raw material depot. First processing step is debarking. Bark is used as fuel for boiler-room. Energy produced in boiler-room is used for biomass dryers, lumber dry kiln, veneer dry kiln, steaming of logs, heating of press machine and for industrial space heating.

Second processing step is preparation of logs for processing on veneer machine. Saw dust and wood residues left-over preparation are used for pellet production as well as low quality veneer parts. Flitch residues, after veneer slicing, are dyed in dyeing kilns and processed in saw-mill.

More quality parts are used for floors and doors production, and low-quality parts are used for pellet and briquette production as well as residue after veneer cut to size. The veneer sheets are then packaged or mainly sent to next working line for producing other final products.

Elements made in finishing saw-mill are being cut to size and used for floors and doors production. Residues are used for briquette and pellet production. Spačva, in context of cascading use of wood, presents a good example of producing six various final products from wood which has been taken from forests. Every part of log, including bark, is used in production process.

<p>Main results</p>	<p>Wood processing and treatment in Croatian company Spačva Ltd. represents a good practice example for cascading use of wood. Employing efficient manufacturing processes, the company delivers six final products from forest wood; every part of log, including bark, is used in the production process.</p> <p>Spačva's final products are doors, several types of floors, veneer, pellet and briquette. Residues from every step of production process are used as fuel in the boiler-room, which delivers the necessary energy for biomass dryers, lumber dry kiln, veneer dry kiln, steaming of logs, heating of the press machine and for industrial space heating. At the end of the process, the only residue left is ash which can be used as fertilizer in agriculture.</p> <p>In this way, the efficiency of using forest resources in the form of logs is significantly increased. As a result, company expended its product line and increased its productivity, competitiveness and market share.</p>
<p>Lessons learned</p>	<p>Besides the promising results obtained, there are further opportunities for enhancing cascading use of wood due to new technologies and new possibilities for ash exploitation. A project that will explore the latter is in preparation. Also, there are options for re-using and recycling final products such as veneer, floors and doors after their end of lifetime.</p>
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