

Sidestream of the month

(Examples for high potential waste, by-products and residues from primary and secondary biomass resources)

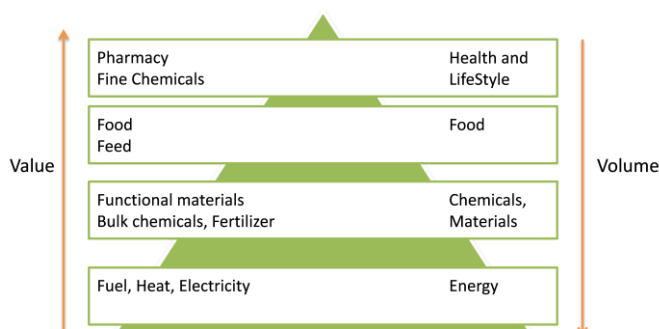
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Grape skins, grape seeds and grape leaves

Instead of sending to landfill, composting or burning the sidestream directly after harvesting/ processing there are higher added values to be achieved applying a cascading and circular approach:



A) Highest added value

Bioactive compounds

Bioactive compounds can be extracted like polyphenols which are famous natural compounds with antioxidant effect e.g. for food supplements and cosmetics. Extraction technologies are proven and well established.

[Link to respective examples in the Sidestream Value Tool \(please register to have a full view\):](#)

[Innovaoleo](#)

[Bioactive Net](#)

B) Low-medium added value

Bio fertilizer

Bio fertilizer can be produced from the digestate of the biogas process or gained after specific biomass treatments. This can substitute conventional chemical fertilizing options and save costs. There are proven methodologies to produce bio fertilizers.

[Link to respective examples in the Sidestream Value Tool \(please register to have a full view\):](#)

[Entoconvert](#)

[Ardec](#)

C) Lowest added value

Heat/electricity

You can use produce heat and electricity at the end of the cascade saving e.g. electricity/heating costs or even sell electricity to the grid and make some additional income.

[Link to respective examples in the Sidestream Value Tool \(please register to have a full view\):](#)

[Anaerobic Digestion](#)

[Thermochemical Treatment](#)



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