



Norwegian salmon production is highly dependent on sourcing soy feed components (Soy Protein Concentrate - SPC) from Brazil. This import is often related to social and environmental concerns such as deforestation and conversion of natural ecosystems, illegal pesticide use, land degradation and exploitation of the rural poor.

Europe Soya offers an alternative. Europe Soya certification system meets the demand for more sustainable, non - GM, regional and transparent soya supply. In addition, it contributes to climate friendly agri-food system in Europe and strengthens regional farmers.

The use of Europe Soya certified SPC in salmon feed production, can cut 41% of CO₂ - eq emissions compared to Brazilian default. This is the result of recent research done by the Research Institute of Organic Agriculture (FiBL) in Austria, Footprint-consult e.U, commissioned by Donau Soja Organisation.

Shift from Brazil standard SPC to Europe Soya certified SPC could cut 1.5 million tons CO,eq, which corresponds to CO₂-eq emission of 149,000 inhabitants in Norway - the whole city of Stavanger.

1.5 million tons

149,000 people



Baltic sea



Kaliningrad, Russia 150,000 t of Europe Soya certified SPC is available for



About the Research

This research calculates the carbon footprint of Europe Soya certified Soy Protein Concentrate (SPC) produced by the Sodrugestvo Group.

Methodology: The life cycle assessment (LCA) is carried out according to the regular standards along the value chain within defined system boundaries. The assessment is closely aligned with the international life cycle assessment standards (ISO standards 14040 and 14044, 14067).

System boundaries: from the soybean production to the factory exit gate of SPC in Kaliningrad, Russia (from the cradle to port).

Research performed by: Research Institute of Organic Agriculture (FIBL), Austria Footprint-consult e.U. commissioned by Donau Soja Organisation







soybean production to SPC production via hexane extraction and ethanol

extraction

processing

Technological scope:

Functional Unit:

1kg of SPC



Temporal coverage: 2019 (calendar year) for industrial

relevant technological processes from



Results

Significant CO₂-eq reduction potential

The difference speaks for itself: Carbon-footprint of 1 kg Europe Soya certified Soy Protein Concentrate (SPC) is 1.6 kg CO₂-eq. This is 4.2 times less than the Brazilian SPC default (6.7 CO₂-eq/kg SPC).



*Agri-footprint database

Europe Soya production is only allowed on land, which has been designated for agricultural use before January 1, 2008. Still, to be in line with the PAS2050-1 methodology, the full GHG emissions from dLUC over a period of 20 years were taken into account.

Figure 1: A comparison of the CO,-eq emission per 1 kg of Europe Soya certified SPC (excluding and including Land Use Change) versus Brazilian default (economic allocation).

The results confirm that land use change is the biggest lever to cut down on CO₂-eq emissions. Additionally, the results show reduced transport emissions in Europe Soya certified scenario compared to Brazilian sourcing.

For the average Norwegian salmon feed, this means that the feed mix with Europe Soya certified SPC has a 41 % lower CO₂-eq emissions than the feed with Brazilian default SPC.



Figure 2: 41% mitigation of CO₂-eq for average Norwegian salmon feed with Europe Soya certified SPC vs. salmon feed with overseas SPC

Note: Whole research is available upon request to Donau Soja Organisation.



Europe Soya Standard quarantees



Standard: www.donausoja.org/fileadmin/user upload/Downloads/Europe Soya Guidelines/English/Europe Soya Guidelines.pdf

Donau Soja Organisation and Sodrugestvo group - driving sustainable change together!



Donau Soja Organisation

Donau Soja is an independent, not - for - profit, member - based organisation.

VISION

A Sustainable, Safe and European Protein Supply

MISSION

Donau Soja supports its partners and members in progressing change to address social, environmental and economic challenges in soya production and consumption. This will increase efficiency, fairness and sustainability in food and feed protein value chains in Europe.

Sodrugestvo group

Sodrugestvo Group is Donau Soja member and the biggest European soybean processor. The Group's production portfolio focuses on oilseeds processing into feeds, feed materials for productive animals, vegetable oils and products for the food industry.

Europe Soya certified Soybean Protein Concentrate (SPC) produced by Sodrugestvo Group is a purified protein product with up to 65% crude protein, used directly in feed or for combined feed production in particular in aquaculture.

STANDARDS: Europe Soya, Donau Soja, Non - GM Standards for the Danube region

www.donausoja.org



866 certified partners

10,400 + farmers

675,000 t soybeans DS/ES certified

Kiev

Vienna (Austria) Novi Sad (Serbia) (Ukraine)



Sodrugestvo Group and Donau Soja built up a controlled chain of sustainable non - GM soybeans produced by European farmers to Sodrugestvo processing facilities and secured 150,000t of Europe Soya certified SPC available for European food and feed industry.

www.sodrugestvo.com







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