# Salmon feed in Norway could cut CO<sub>2</sub>-eq emissions by 41%

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 CO, - 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.

If the Norwegian salmon feed industry changes to Europe Soya SPC, Norway is able to cut 1.5 million tons CO2-eq which is equivalent to almost 3 % of national Norwegian gross greenhouse gas emissions.

3% of Norwegian GHG emissions.





#### (SPC) produced by the Sodrugestvo Group. Methodology: The life cycle assessment (LCA)

About the Research

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

This research calculates the carbon footprint of

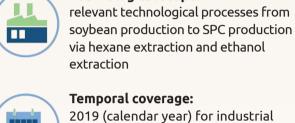
Europe Soya certified Soy Protein Concentrate

(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

 Europe Soya agricultural production considered Production outputs (soybean yields)

e.U. commissioned by Donau Soja Organisation





processing

6.7

6.69

2.29

Norwegian salmon feed

with Brazilian SPC (default)

**Functional Unit:** 

Geographical scope:

European soybeans produced in Serbia,

Croatia, Romania. SPC produced in

1kg of SPC





\*Agri-footprint database

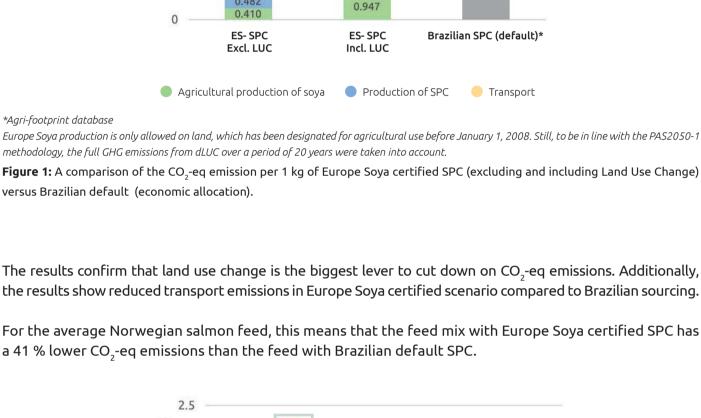
## 4.2X less

Significant CO<sub>2</sub>-eq reduction potential

kg CO<sub>2</sub>-eq /kg SPC

The difference speaks for itself: Carbon-footprint of 1 kg Europe Soya certified Soy Protein Concentrate

(SPC) is 1.6 kg  $CO_2$ -eq. This is 4.2 times less than the Brazilian SPC default (6.7  $CO_2$ -eq/kg SPC).



kg Norwegian Salmon Feed kg CO<sub>2</sub>-eq per

Figure 2: 41% mitigation of CO<sub>2</sub>-eq for average Norwegian salmon feed with Europe Soya certified SPC vs. salmon

-41%

Norwegian salmon feed with

**EUROPE SOYA certified SPC** 

0.0

feed with overseas SPC

STRICT THREE STAGE

**INSPECTION SYSTEM** 

Controlled, certified and verified

**EUROPEAN ORIGIN &** 

**TRACEBILITY** 

IT supported Traceability System:

✓ HARD IP - from Europe

Farmer declarations, Lot

certificates, Certificates of

Traceability, Isotope tests

**Donau Soja Organisation** 

member - based organisation.

VISION

**MISSION** 

chains in Europe.

www.donausoja.org

Standards for the Danube region

Note: Whole research is available upon request to Donau Soja Organisation. **Europe Soya Standard quarantees** 

Self-monitoring system

DS integrity audits

3<sup>rd</sup> party certification -external, independent, accredited CBs

**SUSTAINABLITY** 

No-deforestation and no-conversion of natural ecosystems (Cut-off date: 1 January 2008)

Reduced use of pesticides (only EU substances

Rotterdam or Stockholm Convention: no use of

Production in line with social and labour rights,

WHO 1a and 1b substance; no desiccation e.g.

allowed, no use of substances listed in

glyphosate, no aerial spraying)

safe working conditions

Standard: www.donausoja.org/fileadmin/user\_upload/Downloads/Europe\_Soya\_Guidelines/English/Europe\_Soya\_Guidelines.pdf

**NON GMO QUALITY** 

✓ NON-GMO

Region standards

Compliance with VLOG,

Codex, Non-GM Danube

SODRU SC

# Donau Soja Organisation and Sodrugestvo

STANDARDS: Europe Soya, Donau Soja, Non - GM

group - driving sustainable change together!

#### Sodrugestvo group Donau Soja is an independent, not - for - profit, 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, A Sustainable, Safe and European Protein Supply vegetable oils and products for the food industry. Europe Soya certified Soybean Protein Concentrate Donau Soja supports its partners and members in (SPC) produced by Sodrugestvo Group is a purified progressing change to address social, environmental protein product with up to 65% crude protein, used and economic challenges in soya production and directly in feed or for combined feed production in consumption. This will increase efficiency, fairness particular in aquaculture. and sustainability in food and feed protein value Sodrugestvo Group and Donau Soja built up a controlled chain of sustainable non - GM soybeans

feed industry.

www.sodrugestvo.com

### 10,400 + farmers 675,000 t soybeans DS/ES certified

**Novi Sad** 

(Serbia)

25 + countries

275 + Members

866 certified partners

practices in European soya production together

Kiev

(Ukraine)

Chisinau

(Moldova)

e work with our farmers daily to develop best

produced by European farmers to Sodrugestvo

processing facilities and secured 150,000t of Europe Soya certified SPC available for European food and



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