

# Certified Europe Soya cuts tofu's carbon footprint by 30%

## LCA STUDY RESULTS: NEW ORIGINALS TOFU



**~30%**

lower CO<sub>2</sub> emissions with Europe Soya vs. EU average mix



**#1**

most climate-efficient high-quality protein among all products assessed<sup>1</sup>



**100%**

of NOC soybeans are Donau Soja/Europe Soya certified

An independent LCA<sup>2</sup> conducted by FiBL Austria confirms three key findings about New Originals (NOC) tofu made with certified Europe Soya soybeans:

- Certified Europe Soya reduces tofu's carbon footprint by **approx. 30%** compared to a non-certified European average soya mix (Life Cycle Assessment (LCA): FiBL Austria for The New Originals Company, FiBL Austria LCA 2025). [IK1.1]
- Tofu is one of the **most climate-efficient sources of high-quality protein<sup>1</sup>**, outperforming all other protein sources assessed in the study.
- The choice of **Europe Soya** is a **strong lever for climate efficiency** in tofu production, driven by its deforestation-free standard and controlled cultivation.

### EUROPE SOYA: THE STRONGEST LEVER FOR GHG REDUCTION

Soybean cultivation accounts for 32–37% of the total GHG footprint of tofu, making the choice of soya source the most powerful lever for reducing CO<sub>2</sub> emissions<sup>2</sup> in production.

#### GHG EMISSIONS PER KG PRODUCT AT FACTORY GATE

| Product               | Europe Soya                        | EU average mix                | CO <sub>2</sub> reduction |
|-----------------------|------------------------------------|-------------------------------|---------------------------|
| Tofu Natural, organic | <b>0.90 kg CO<sub>2</sub>eq/kg</b> | 1.28 kg CO <sub>2</sub> eq/kg | <b>approx. -30%</b>       |
| Tofu Natural, conv.   | <b>0.97 kg CO<sub>2</sub>eq/kg</b> | 1.28 kg CO <sub>2</sub> eq/kg | <b>approx. -24%</b>       |
| Tofu Smoked, organic  | <b>1.03 kg CO<sub>2</sub>eq/kg</b> | 1.47 kg CO <sub>2</sub> eq/kg | <b>approx. -30%</b>       |
| Tofu Smoked, conv.    | <b>1.11 kg CO<sub>2</sub>eq/kg</b> | 1.47 kg CO <sub>2</sub> eq/kg | <b>approx. -24%</b>       |

Note: The scenario comparison is indicative and does not constitute a fully ISO-compliant comparative LCA (provided at the client's request, EF 3.1 method).

## TOFU IS ONE OF THE MOST CLIMATE-EFFICIENT PROTEIN SOURCES

GHG emissions were assessed per 100 g of high-quality, digestible protein using the internationally recognised DIAAS methodology (FAO 2013), which accounts for both protein content and protein digestibility. Europe Soya certification strengthens this result by ensuring deforestation- and conversion-free (DCF), non-GM, traceable soybean sourcing from Europe.

### GHG EMISSIONS PER 100 G DIGESTIBLE PROTEIN<sup>1</sup> (DIAAS-CORRECTED)

| Protein source                         | per 100g protein <sup>1</sup>   |
|--|---------------------------------|
| <b>Tofu Natural (NOC, Europe Soya)</b> | <b>0.61 kg CO<sub>2</sub>eq</b> |
| <b>Tofu Smoked (NOC, Europe Soya)</b>  | <b>0.71 kg CO<sub>2</sub>eq</b> |
| Other plant-based alternatives         | 1.5–1.95 kg CO <sub>2</sub> eq  |

## WHAT EUROPE SOYA CERTIFICATION GUARANTEES

The results clearly demonstrate that New Originals tofu, produced with Europe Soya certified soya, combines high-quality protein with a very low climate footprint. The certified soya ensures non-GM production, deforestation- and conversion-free sourcing, full traceability, and compliance with high sustainability requirements. At the same time, sourcing soya from Europe strengthens regional protein production and contributes to reduced dependency on imported feed and food proteins, greater supply chain resilience, and enhanced strategic autonomy within Europe for both plant-based and animal-based value chains.

The findings of this study highlight the significant potential of European plant protein as a cornerstone of a diversified and resilient food system. In this way, climate protection, food security, and regional value creation can be advanced simultaneously.

Connect with us ([sustainability@donausoja.org](mailto:sustainability@donausoja.org)) to explore how Donau Soja/Europe Soya certification can add measurable, credible value to your soya supply chain - for any plant-based product.

### About the study

This Life Cycle Assessment (LCA) was commissioned by The New Originals Company (NOC) and conducted by FiBL Austria (completed November 2025, updated February 2026). The study was carried out in accordance with ISO 14040/14044 using the EU Environmental Footprint EF 3.1 method. System boundary: cradle to factory gate. All NOC tofu variants assessed are produced using 100% Donau Soja / Europe Soya certified soybeans at the NOC facility in Banská Bystrica, Slovakia.

<sup>1</sup> CO<sub>2</sub> emissions always refer to CO<sub>2</sub> equivalents (CO<sub>2</sub>eq); other greenhouse gases such as methane or nitrous oxide are also included. IPCC (2013): Climate Change 2013: The Physical Science Basis. Cambridge University Press.

<sup>2</sup> Life Cycle Assessment (LCA): FiBL Austria for The New Originals Company, November 2025 (updated February 2026). Method: ISO 14040/14044, EF 3.1. System boundary: cradle to factory gate.