

**WE SAVE RESOURCES IN SUPPLY CHAINS,
FOR A BETTER TOMORROW**

NEFAB
SAVING RESOURCES

**SCCH Manufacturing platform -
Sustainable Packaging and the new
product fee system**

Bálint Tóth

NEFAB – 8th of November 2023

NEFAB OVERVIEW



OUR OFFERING



Packaging Solutions



Logistics Services



Optimization Programs

CUSTOMERS IN MULTIPLE INDUSTRIES



Telecom & Datacom



Energy



Automotive



Healthcare



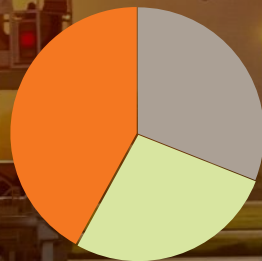
LiB



Other Industries

REVENUE

900 MUSD (2022)



■ Americas

■ Asia

■ Europe

OWNERSHIP

Nordgren/Pihl

FAM (Wallenberg)

50%

50%

GLOBAL SUPPLY & LOCAL SERVICES

OUR CAPABILITIES

NEFAB
SAVING RESOURCES



■ Nefab sites

+80 sites in +35 countries

+4300 employees

+200 engineers worldwide

6 ISTA test labs

OUR CORE VALUES



We Empower...

- ... growth
- ... communication
- ... people



We Respect...

- ... tomorrow
- ... our customers
- ... each other



We Simplify...

- ... for our customers
- ... through innovation and cooperation

OUR CUSTOMERS

CUSTOMERS IN MULTIPLE INDUSTRIES

NEFAB
SAVING RESOURCES



TELECOM/
DATACOM



ENERGY



VEHICLES



HEALTHCARE
EQUIPMENT



AEROSPACE



LiB



OTHER
INDUSTRIES

What

Radio base stations
Servers/Racks
Site Installations

Transformers
Switchgear
Motors

Vehicle parts
Batteries

MRI equipment
Optics
Computers

Aircraft components
Wheels
Spare parts

Battery packs
Cells
Modules

Wafers
Hard Drives
Clean room
components

Examples of
companies

--	--	--	--	--	--	--

OUR OFFERING

COMPLETE PACKAGING SOLUTIONS



**Packaging
Solutions**



**Logistics
Services**



**Optimization
Programs**

Our solutions save CO₂ emissions and Total Cost in supply chains

GLOBAL ENGINEERING EXPERTISE

NEFAB
SAVING RESOURCES

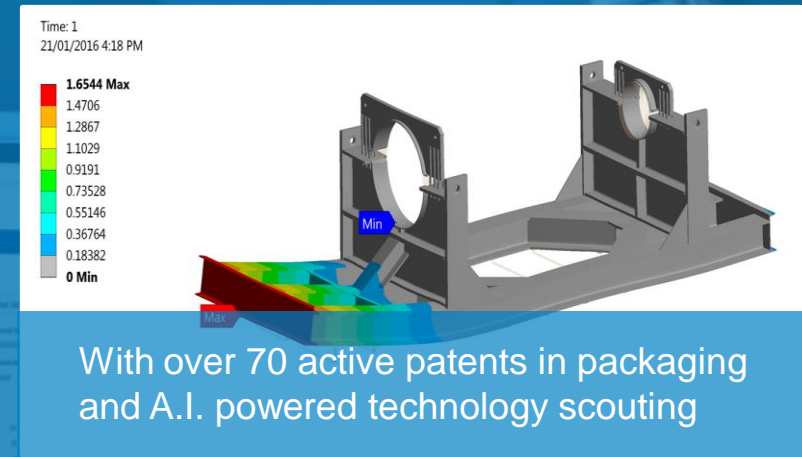
Global Engineering



>200 packaging engineers –and designers with decades of experience



Globally working together to develop and test packaging and products



With over 70 active patents in packaging and A.I. powered technology scouting

Project examples



Developing packaging systems for High Tech industries



 DESIGN AWARD 2022

Using sustainable design methodology to make award winning packaging



Engineering transport tools for large machines shipment

SUSTAINABILITY STRATEGY

SAVING RESOURCES IN SUPPLY CHAINS



CUSTOMER'S SUPPLY CHAIN



Our ambition is to until 2026 reduce our customers' CO₂ emissions by

10 million tons

CIRCULARITY AND WASTE



Our ambition is to establish circular business models and turn waste into new resources

OUR BACKYARD AND SUPPLY CHAIN



Our ambition is to every year reduce our GHG Intensity (Kg CO₂ /KSEK) by

4%

Code of Conduct in line with:



Certificates and credentials



(FSC® C148116)



QUANTIFY YOUR SAVINGS WITH GREENCALC

SUSTAINABILITY AND TOTAL COSTS IMPROVEMENTS BASED ON DATA



■ What GreenCalc can do for you:

- Capture your environmental and financial savings
- Identify areas of improvement to develop new packaging designs using sustainable materials
- Track and report your progress (scope 3 emissions)

■ Learn how to:

- Understand your packaging impact
- Lower your environmental impact and total cost
- Drive improvements to create financial and environmental savings



QUANTIFY YOUR SAVINGS WITH GREENCALC

SUSTAINABILITY AND TOTAL COSTS IMPROVEMENTS BASED ON DATA



SUPPLY CHAIN SAVINGS REPORT

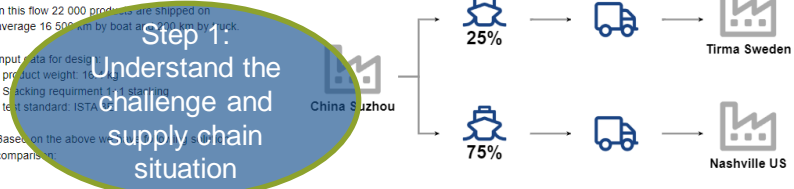
Case description - PERMOBIL

Nefab optimizes packaging to save total logistic cost and environmental impact.

In this flow 22 000 products are shipped on average 16 500 km by boat and 100 km by truck.

Input data for design:
- product weight: 16 kg
- Stacking requirement: 1 x 1 stacking
- test standard: ISTA 1A

Based on the above comparison:



Packaging solution

CURRENT
Current solution

Step 2: Innovate and design sustainable solutions

MATERIAL USAGE:
25,6 kg Corrugated
23,0 kg Plywood
0,7 kg Steel galvanized, ExPak
0,3 kg PE bag
Total of 51,3 kg

Currently the Chassis box and Battery box has individual packaging solution.

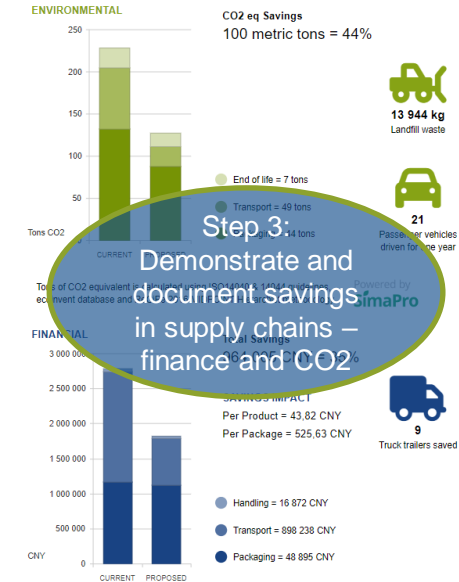
PROPOSED
New proposal

MATERIAL USAGE:
19,2 kg Corrugated
11,9 kg Plywood
0,7 kg Steel galvanized, ExPak
0,3 kg PE bag
Total of 32,1 kg

The new solution enable the integration of Chassis box and Battery box as one product, which can lower the packaging and logistic cost.

Although Nefab has made every attempt to ensure that the information in this presentation is current and accurate, all information is provided "as is", with no guarantee of completeness, accuracy or of the results obtained from the use of this information, and without warranty of any kind, express or implied. In no event will Nefab or its related corporations, be liable for any decision made or action taken in reliance on the information in this presentation or for any consequences, special or similar damages.

Annual savings



The Financial Savings graph illustrates total cost of logistics by implementing a new solution. Main components are: transport, handling, packaging. Others (warehousing, damages, waste management)



ISO 14040
ISO 14044
VERIFIED

SUPPLY CHAIN SAVINGS REPORT

Case description - [REDACTED]

Nefab optimizes packaging to save total logistic cost and environmental impact.

In this flow 1 500 000 products are shipped on average 1 080 km by truck.

Input data for design:
 - product weight: 1.9 kg
 - Stacking requirement: 1+1



Packaging solution

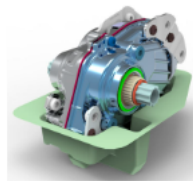
CURRENT
 GEN4 paper pulp tray



MATERIAL USAGE:
 0,1 kg Paperpulp
 Total of 0,1 kg

- Description: paper pulp tray
- Benefits: Recyclable
- Weight of tray: 0.085 kg

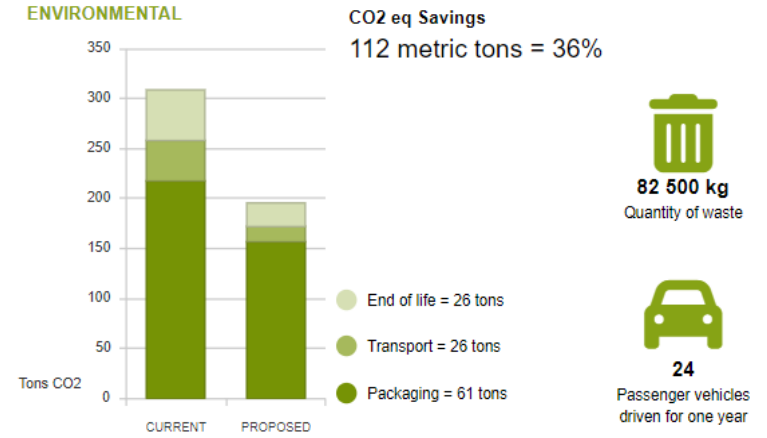
PROPOSED
 GEN4 aPET tray



MATERIAL USAGE:
 0,0 kg rPET, Thermoformed
 Total of 0,0 kg

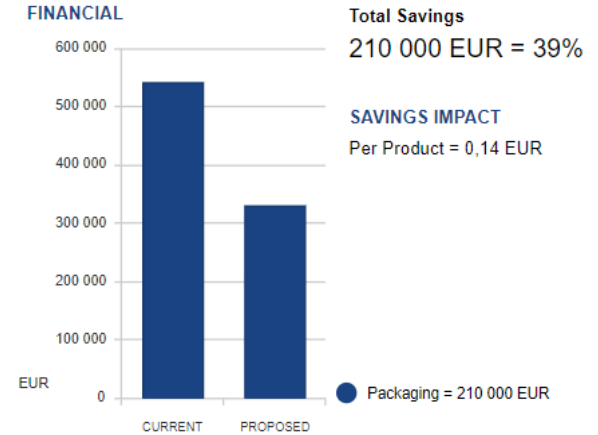
- Description:
- Benefits: Recyclable and reusable material. At the end of the life-cycle of the packaging granulates can be made of the trays. These granulates are used for raw material production. From that raw material more trays can be made.
- Weight of tray: 0.03 kg

Annual savings



Tons of CO2 equivalent is calculated using ISO14040 & 14044 guidelines, ecoinvent database and ReCiPe 2016 MIDPOINT Hierarchist methodology.

Powered by **SimaPro**



The Financial Savings graph illustrates total cost of logistics by implementing a new solution. Main components are: transport, handling, packaging. Others (warehousing, damages, waste management)

AWARDS 2021 – 2022



Innovation Diamond Award
HYBRID PAPER PALLET
NOKIA NETWORKS



RedDot Award
FIBER FLUTE SOLUTION
NOKIA NETWORKS



German Packaging Award
FIBER SOLUTION FOR LIB



Sustainability Award
SCHNEIDER ELECTRICS



CSR Supplier Award
THALES



WORLDSTAR
GLOBAL
PACKAGING
AWARDS

WorldStar packaging award
CIRCULAR PLASTIC SOLUTION

NEFAB SUMMARY

SAVING CO₂ AND TOTAL COSTS

- Trusted supplier to leading customers, in various segments, worldwide for more than 70 years
- Complete packaging solutions and logistic services, engineered to maximize product protection with significant CO₂ savings
- Purpose driven company with high ethical standards, guided by our core values and code of conducts

NEFAB
SAVING RESOURCES

Our solutions save CO₂ and Total Cost in supply chains



**WE SAVE RESOURCES IN SUPPLY CHAINS,
FOR A BETTER TOMORROW**

Bálint Tóth | Nefab Packaging Hungary Kft.
MANAGING DIRECTOR

Mobile: +36 70 642 9324

Email: balint.toth@nefab.com

East Gate Business Park B1.
2151 Fót
Hungary

NEFAB – SAVING RESOURCES

NEFAB

SAVING RESOURCES

Thank You!