



**GLOBAL COLD CHAIN**  
ALLIANCE®

# **Decarbonising perishable logistics: strategies for a sustainable future**

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# About GCCA





# The Cold Link





# European Outreach



**+/- 200  
sites**



**16  
countries**



**45 mio m<sup>3</sup>**



**10%  
growth**



Credit: VDKL







**2.9 billion tonnes**

of **food stuffs** were transported  
by European registered HGVs<sup>2</sup>

The cold chain supports a  
**food sector** that contributes

**€800 billion**

to the European Economy<sup>1</sup>

**160 million tonnes**

of **milk** produced, and processed  
in drinking milk, cheese, butter  
and other products<sup>4</sup>

Cold chain stored and  
transported, from the

**4.6 million tonnes**

of fishery products<sup>5</sup>

Cold chain facilitated total intra  
and extra EU food exports at

**€513 billion**

**78.7%**

of food goods transported  
within the EU travelled  
less than 300km<sup>6</sup>

**42 million tonnes**

of **meat** produced in the EU  
was transported and stored  
by cold chain businesses<sup>3</sup>

... and facilitated imports from  
outside the EU valued at

**€110 billion**



# **On The Way to Decarbonisation**



# Industry Examples – Transport

Solution		+	--
HVO/XTL	-90% CO <sub>2</sub> Same engine		
Electrification	Neutral		Cost Change of Equipment Infrastructure
Rail	Neutral		Availability Lead time Infrastructure



# Industry Examples – Warehousing

## ☐ Solar energy

- 27 installations across Europe => 32MW
- 1 site in Poland => 25% of needs
- Several sites across Europe => 11 GWh (12% of needs)

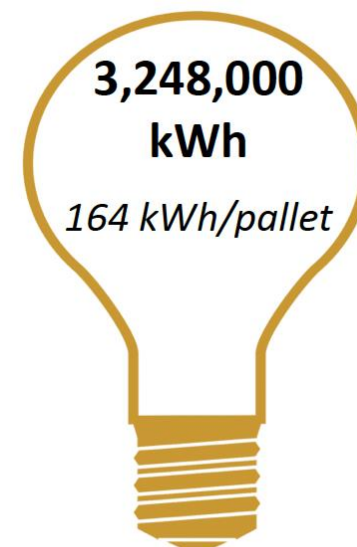
## ☐ Energy efficiency => 43% energy savings

- LED lights (up to 70 MW saved)
- Insulation
- Doors
- Cooling system
- Energy management
- Best practices

## ☐ Wind energy

## ☐ Battery storage

## ☐ Frozen Food Set Point (+3°C = 10% saving)



2021





# Challenges

- ☐ Availability and diversity of clean energy
- ☐ Investment & Innovation
- ☐ Infrastructure
- ☐ Government awareness
- ☐ Regulations



# Call To Action

## **We call on policymakers to support the following principles in future strategy and policy making**

- Cold chain is critical infrastructure and must be prioritised at times of energy shortage. Energy must remain consistently available and affordable for cold chain users.
- The decarbonisation of transport (and mobile refrigeration) has sweeping implications for food supply chain, and cold chain transportation companies must be fully consulted and supported at all stages of transition.
- Energy efficiency provides massive opportunities for increasing resilience and reducing emissions in cold chain operations it must be encouraged and incentivised.
- There are major opportunities for energy generation (solar, wind, anaerobic digestion, hydro) and storage to be co-located with cold chain infrastructure, barriers to making this possible such as zoning restrictions, should be reduced and removed across Europe.
- The inadequacy of the energy grid is holding back cold chain innovation and investment across the EU, the future of a more responsive grid could see big opportunities for demand response in cold chain.



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