

Join the **move** to **-15°**

How frozen food can
help a warming planet





TODAY'S MODERATOR



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Thomas
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THREE DEGREES OF CHANGE

The role of food freezing in achieving a resilient, equitable and sustainable food system with minimum environmental impact

Opportunities and barriers to move to a -15°C cold chain

Is -18°C still relevant in today's food systems?

A collaborative work of the Centre for Sustainable Cooling (UoB), the International Institute of refrigeration (IIR), the African Centre of Excellence for Sustainable Cooling and Cold-chain (ACES) and LSBU:



Also including:



Supported by:



Three Degrees Of Change

FROZEN FOOD IN A RESILIENT AND SUSTAINABLE FOOD SYSTEM

Summary report & initial findings
November 2023

International Institute of Refrigeration
Centre for Sustainable Cooling

THE THREE DEGREES: WHAT DOES THIS MEAN FOR ENERGY AND EMISSIONS?

Total energy consumption of the global frozen food cold chain estimated to be 484 TWh/yr.

Moving from -18°C to -15°C reduces energy consumption by **25 TWh/yr** and GHG emissions by **17 Mt CO₂e/yr**.



25 TWh/yr is equivalent to twice the electricity consumption of Kenya

11.4 GW is more than 70% of the UK total onshore capacity and would cost \$15 billion

THE THREE DEGREES: WHAT DOES THIS MEAN FOR FOOD SAFETY AND QUALITY?

Moving to -15°C has NO impact on food safety!

At -12°C all microorganisms are inactivated.

Even if stored at -18°C , if food is not properly handled before freezing, -18°C will not guarantee quality

What happens before freezing is more important than what happens during freezing

Factors more important than temperatures: **Product, Processing** and **Packaging**, selection, antioxidants with preservation effect, blanching, rapid freezing, storage and distribution, packaging.

MEMBER STATUS – ACROSS THE COLD CHAIN

KUEHNE+NAGEL

 **Hapag-Lloyd**

AJC

ONE
OCEAN NETWORK EXPRESS



MAERSK



DP WORLD



Lineage



HOLT

MOVING FORWARD WITH THE COALITION

**MEMBERS
RECRUITMENT**

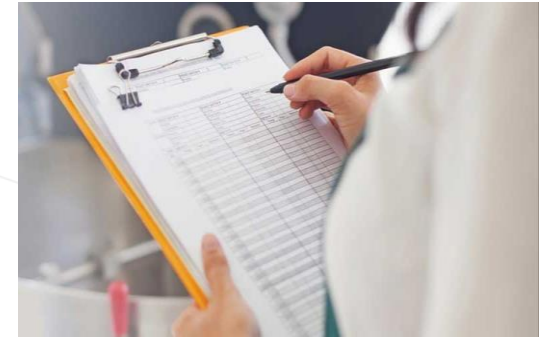
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FASTTRACK APPROACH



**FOOD SAFETY
REGULATIONS &
STANDARDS**



OUR INDUSTRY SPEAKERS



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Raul Saca

Global Vice President
Perishables,
DP World



Mathew Moore

Vice President-Global Market
Strategy,
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