Tech Talk – Industrial Refrigeration Fit for the Future?

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Megatrends enable Cooling growth

**SUSTAINABLE COOLING**
- Urbanization – 1.5 billion more people to live in cities by 2030
- Digitalization

**COLD CHAIN**
- Population growth - 60% more food needed by 2050
- Online grocery shopping

**ENERGY TRANSITION**
- Energy efficiency
- Renewables
- Electrification
- Energy storage

**REFRIGERANTS & CLIMATE**
- Low GWP refrigerants
- Natural refrigerants
- Need for clean water

We keep people, products and the planet cool.
Cooling Supports the Energy Transition

38% from energy efficiency to stay in 2 degrees scenario

90% of the buildings in EU have not been renovated for energy efficiency

>1% increase in EU GDP/year by implementing energy efficient technologies

Trendsetting combination of Cooling/Heating, Energy and E-Mobility

- Dry cooler
- Solar Energy
- Battery Storage
- Lighting
- E-mobility
- Heat reclaim
- Cold storage tanks
- Heat storage tanks
- HVAC
- Refrigeration case
- Compressor pack
- Supermarket
- Floor heating
- Energy well for heat pump and cooling
- Snow melting
- District heating (sell excessive heat)
- Danfoss Smart Store
- Demand Response
Why is sustainable cooling important?

- 1bn people without cooling
- Fridge or air-conditioner first thing to buy once access to electricity
Refrigeration: Growing Complexity
Sustainability is Key

**Safety** must never be compromised. All low GWP refrigerants are safe if used according to standards.

**Energy efficiency** is important to address minimized electricity consumption and reduce running cost.

**Affordability** in the market is a basic parameter to be addressed ensuring the good business case.
Danfoss - the natural partner

Your reliable, fast and innovative partner providing strong cooling application expertise.

- Application Know-How
- Training at ADC’s
- Service