

Zero Carbon Journey with **Danfoss**

Emre GÖREN WRI Istanbul, 19.11.2019

Four business segments geared for growth



Danfoss Power Solutions #2 Market position

- 7,625 employees
- 25 factories in 12 countries
- 2.1bn EUR annual sales





Danfoss Cooling

#1 Market position

- 6,179 employees
- 15 factories in 10 countries
- 1.6bn EUR annual sales





Danfoss Drives

#2 Market position

- 4,645 employees
- 11 factories in 7 countries
- 1.4bn EUR annual sales





Danfoss Heating

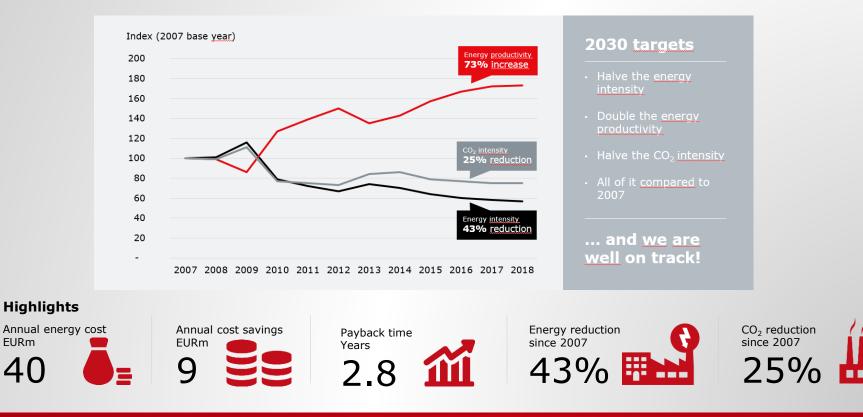
#1 Market position

- 4,898 employees
- 24 factories in 11 countries
- 0.9bn EUR annual sales





Our climate strategy and achievements

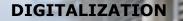


FURm

40







ELECTRIFICATION

URBANIZATION

GLOBAL MEGA-TRENDS

transforming our world



CLIMATE CHANGE

The Sustainable Development Goals

tie it all together

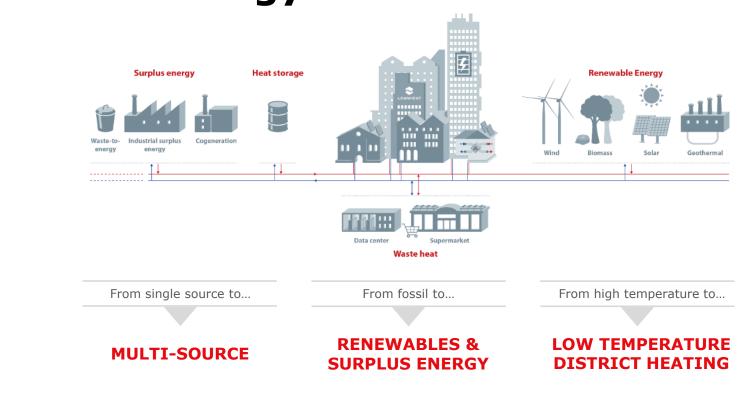


- We have the opportunity to work together to develop customer-centric solutions
- Danfoss is an active player when it comes to living up to the SDGs
- We lead by example by combining digitalization, innovation, and energy efficiency to create sustainable solutions
- This not only improves our environmental footprint, but also frees money to be spent elsewhere
- Linking the SDGs and our business supports our growth ambitions





District Energy



6 | CORE & CLEAR / GOING GREAT





New Istanbul Airport HVAC controls by Danfoss



Variable Speed Drives for Air Handling Units, Fans, Jetfans

17 ay′dan kısa geri ödeme süresi

Doğru seviyedeki havayı doğru zamanda doğru yere ulaştırma 1900 adet HVAC cihazı ile

> Yangın Modu acil durumlarda **hayat kurtarır**

Sismik koruma sayesinde güvenli havalimanı

Harmonik standartına tam uygunluk IEC/EN 61000-3-12

Dahili RFI filtreler Ve DC Şok bobinleri ile hasas ortamlarda dahi parazitsiz

çalışma sağlar. **300m** dahili kablo mesafesi

14.000 adet PIBCV valve.



Water and Wastewater

Generating 90% surplus power from wastewater treatment

Aarhus Water WWTP Denmark

Blowers, pumps, mixers and dewatering pumps



35% carbon footprint reduction

40% annual electricity surplus

2.5 GWh annual heat surplus

0.32 kWh/m³ treated wastewater



Uniform water-dedicated technology for flexibility, compatibility, ease of training & service

ENGINEERING TOMORROW

Danfor



generation results in 90% annual net surplus

Marine and Offshore High sustainability for hybrid RORO passenger ferry





Marine and Offshore

Shore supply to rigs ensures fuel savings and cleaner air

,

4500 t

Reduction in emissions annually CCB Bergen Norway

Shore power supply



5000 liters less diesel consumption daily

 $\begin{array}{l} \textbf{4500} \hspace{0.1 cm} t \hspace{0.1 cm} \text{less CO}_2 \hspace{0.1 cm} \text{and NO}_x \\ \text{emission annually} \end{array}$

Easy connectivity

 \mathbf{O}

Prepared for future legal requirements



Optimal user interface for easy operation

Optimal cooling



Refrigeration

Accelerate system payback with best-practice speed control



Drive down total cost of ownership for reefers, cold rooms and all kinds of compressors

Win full traceability, seamless system integration and full motor compatibility

We champion your cause in optimizing refrigeration applications

- Experts at your service
- Specialized range of refrigeration

 optimized AC drives

Top performer:

• VLT[®] Refrigeration Drive FC 103





Food and Beverage

Fine-tuning and variant reduction improve line productivity



Cantine Riunite wine bottling line Italy

Conveyors



30% energy savings



Payback time ~1 year

40% less cleaning time

EHEDG certified hygienic design for food safety

Efficiency class > IE4

Variant reduction for leaner warehousing

12 | CORE & CLEAR / GOING GREAT



When we turn down energy consumption we turn up growth

Energy efficiency can accelerate the economy. According to the European Alliance to Save Energy, we can achieve impressive growth, if we set more ambitious targets for energy efficiency.

Today's available technology can support:

Reduced CO₂ emissions Europe can reduce CO₂ emissions by **1.5 billion tonnes**

annually in 2030 – a 30% reduction



Postponing energy investments Higher energy efficiency postpones the need to expand energy production, which could lead to

€30 billion investment savings per year



More jobs A more ambitious policy on energy efficiency can create 1.5 million

full-time jobs

Lower energy use By reducing energy consumption, Europeans could achieve a net saving of €200 billion

Lower energy prices

The less energy we use, the less we demand. We can by 2030 potentially reduce accumulated energy expenses by €50 billion









