# Sustainable cooling

# to enable decarbonisation and deliver on the European Green Deal





### Cooling is... a key player in the European energy landscape



### **Cooling contributes...**

to numerous Sustainable Development Goals (SDGs)



# **Cooling is...** an intrinsic part of life



### Cooling is... a big global industry and it is set to grow



#### **Cooling in comparison**

Cooling market value versus other sectors (2018, USD billion)



#### Sources:

The Cooling Imperative, A report by The Economist Intelligence Unit in partnership with K-CEP European Environment Agency statistics on energy

Share of renewable energy in gross final energy consumption, EEA 2017

## **Did you know?**

An integrated approach to heating and cooling based on energy efficient electrification can help moving away from fossil fuel-based solutions: first because the share of renewables in the electricity mix is increasing and second because it will reduce energy consumption for heating purposes. This is particularly evident with heat pumps which help to save energy whilst providing both heating and cooling.

### The solution:



- Sector integration between heating and cooling
- Energy consumption
  - Increased share of renewables in the energy mix





# Did you know?

#### **Global leadership**

Cooling and heat pump systems need refrigerants for their operation. Some of them can be powerful greenhouse gases if emitted into the atmosphere. These emissions from hydrofluorocarbons (HFCs) represent roughly 2% of total greenhouse gas emissions in Europe, but their share used to rapidly grow. In Europe, this trend has been reversed. Since 2014, HFC emissions have been decreasing thanks to the EU F-Gas Regulation – the first regulation in the world to directly address these emissions. At global level, the Kigali Amendment entered into force in 2019 to phase down HFCs and to reduce emissions accordingly.

Source: Annual European Union greenhouse gas inventory 1990–2017 and inventory report 2019, EEA



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