

## “POSITIONING - THE ELECTRIC HEAT PUMP”

### VIDEO VOICE TRANSCRIPTION

**Voice over:** “Buildings account for a quarter of total energy consumption and almost 15 % of emissions in Europe. Heating and cooling in the building sector is essential in achieving carbon neutrality by 2050 and, although it has reduced its emissions by more than 25 % since 1990, in recent years there has been an upward trend.”

“Heating is also one of the main causes of air pollution, since it depends more than 60 % on fossil fuels.”

“In view of this situation, the electric heat pump arises as a real, mature and competitive alternative to decarbonise heating, domestic hot water and cooling in buildings. But what is an electric heat pump and what are its benefits?”

- It is a thermal machine that very efficiently transfers heat or cold from the air or the ground to the desired space. It is three times more efficient than conventional gas boilers.
- It is capable of generating up to 4 kW of heat for every 1 kW of electricity, so its performance can reach up to 400 %. Three quarters of the energy generated comes free from renewable natural resources.
- It does not emit CO<sub>2</sub> or other pollutants.”

“Despite its benefits, heat pump penetration in the building sector in Europe is less than 1 %, mainly due to the high cost of the machines; their installation and the refurbishments required to buildings, compared to that of a gas boiler.”

“To promote this technology change, a European strategy is needed that facilitates its massive development. The European Union is currently developing and reviewing regulations of the Green Deal, to implement a carbon-neutral economy by 2050. This opportunity should be taken to:

1. Reduce the economic barriers slowing its development by establishing incentives.
2. Establish standards for CO<sub>2</sub> emissions and other pollutants. From 2025, all new systems should be free of CO<sub>2</sub> and other pollutants.
3. Establish a uniform energy certification system for buildings in Europe and set a mandatory path for the progressive improvement of efficiency in buildings.”

“Iberdrola is committed to the electric heat pump, offering alternatives tailored to our customers’ needs through our solutions.”