

# Sweden: The Heat Pump Wonder Country

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# The energy sector in rapid change

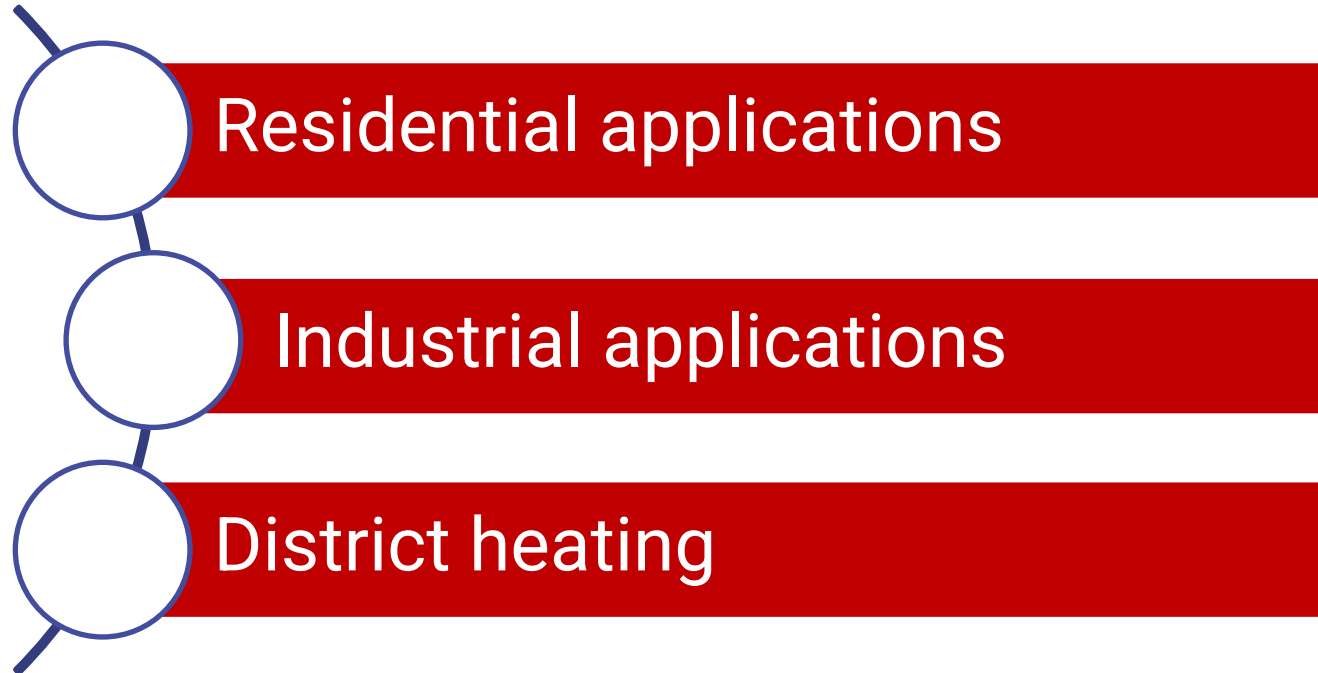


# Electrification

- Transport sector
  - Cars
  - Busses
  - Bicycles
- Railroad traffic
- Heating Sector
  - **Heat Pumps**
- Industry



# Variety of heat pump applications



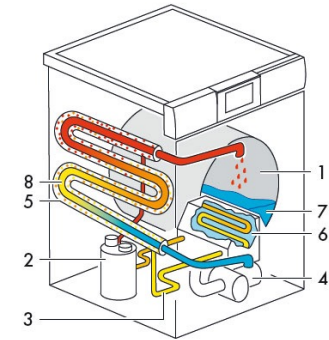
# Heat pumpification of society



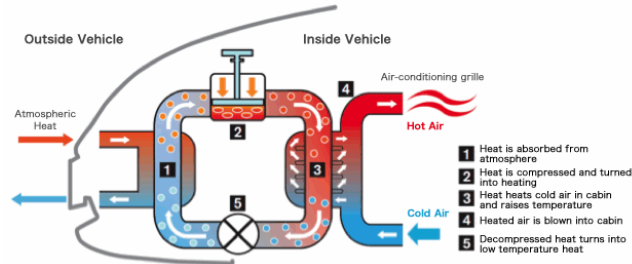
## Nutzen

Der Stromverbrauch gegenüber einem herkömmlichen Waschautomaten wird noch einmal um ca. 55 % gesenkt. Die neue Adora SLQ WP ist somit der sparsamste Waschautomat und schont die Umwelt und Ihr Portemonnaie.

## Funktion



- 1 Wäschetrommel
- 2 Kompressor
- 3 Kältemittelkreislauf
- 4 Zirkulationspumpe
- 5 Wärmetauscher
- 6 Verdampferbank



# Heat Pumps – Three fold benefits



*Energy Efficient*

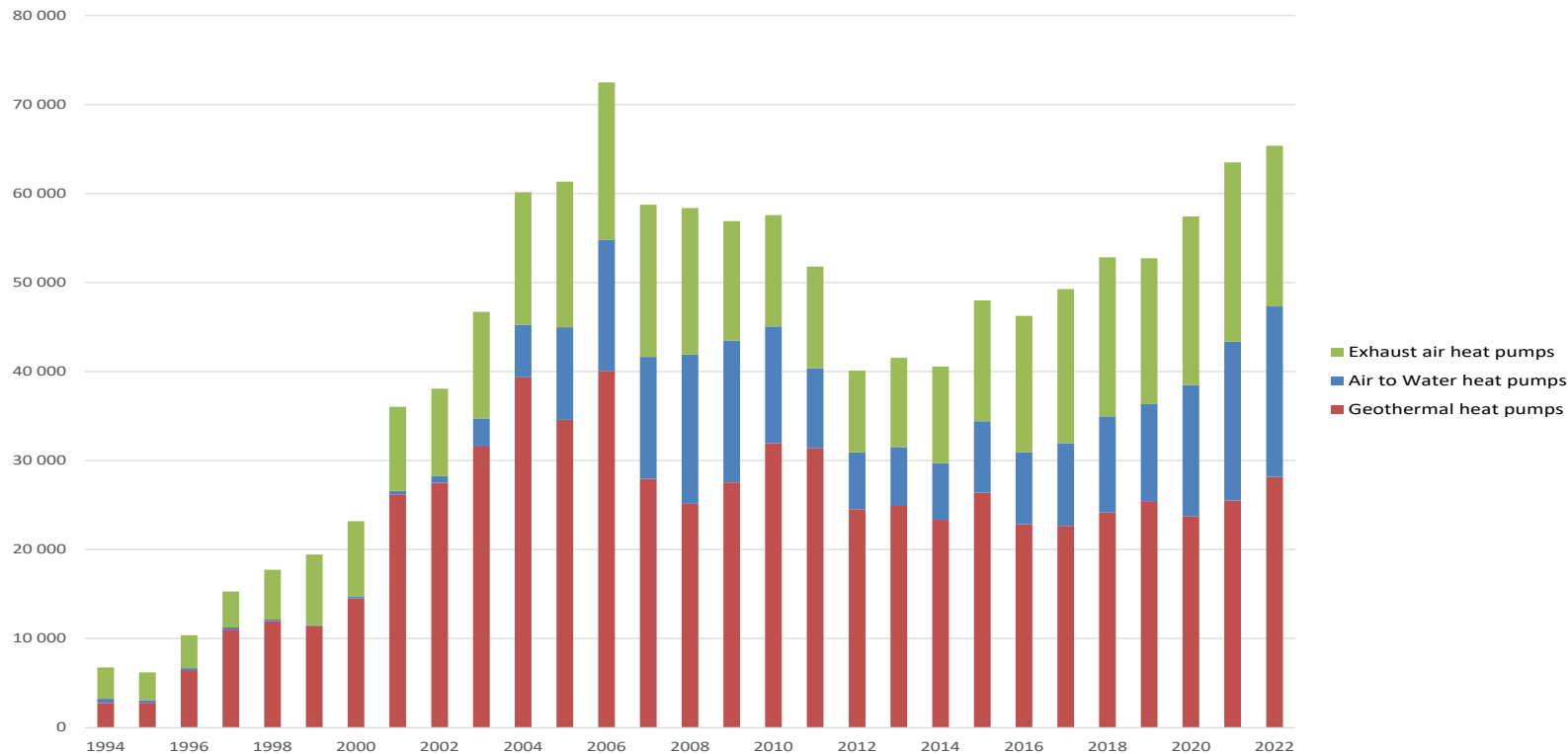


*Emission Reduction*



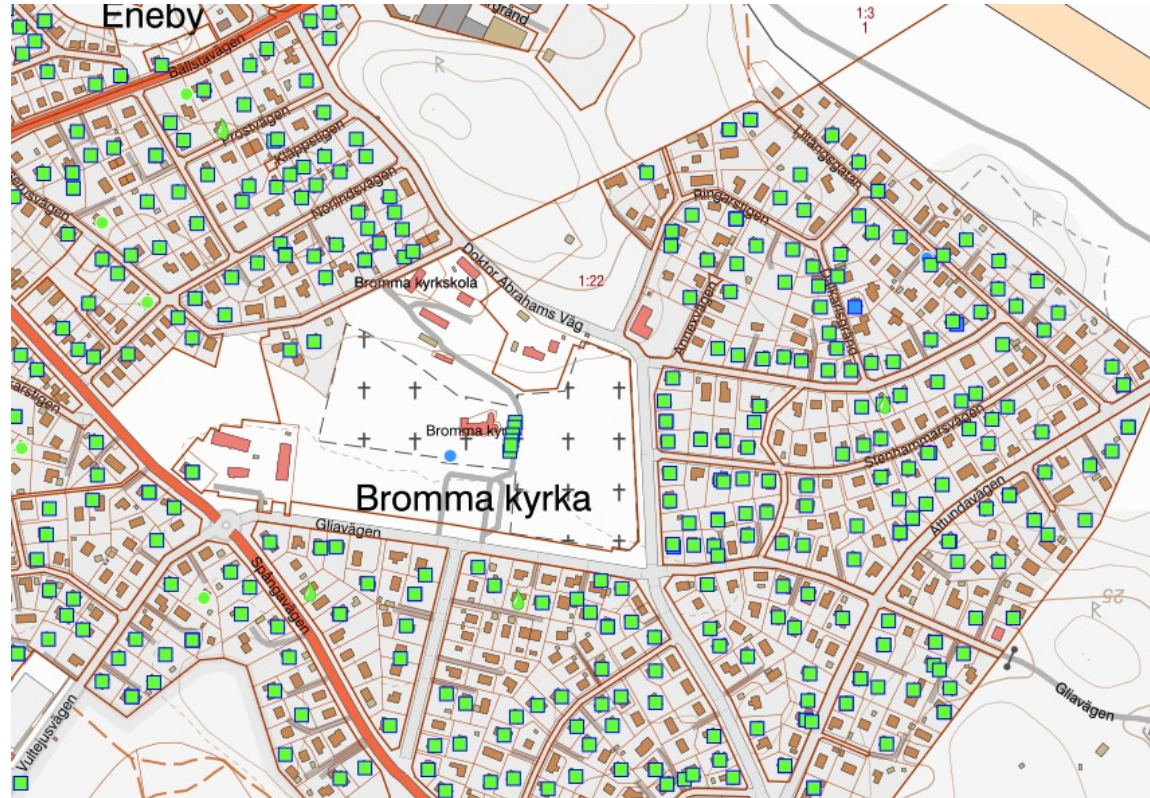
*Renewable Energy*

# Sales of Heat Pumps in Sweden 1994 - 2022



Source: Swedish Heat Pump Association

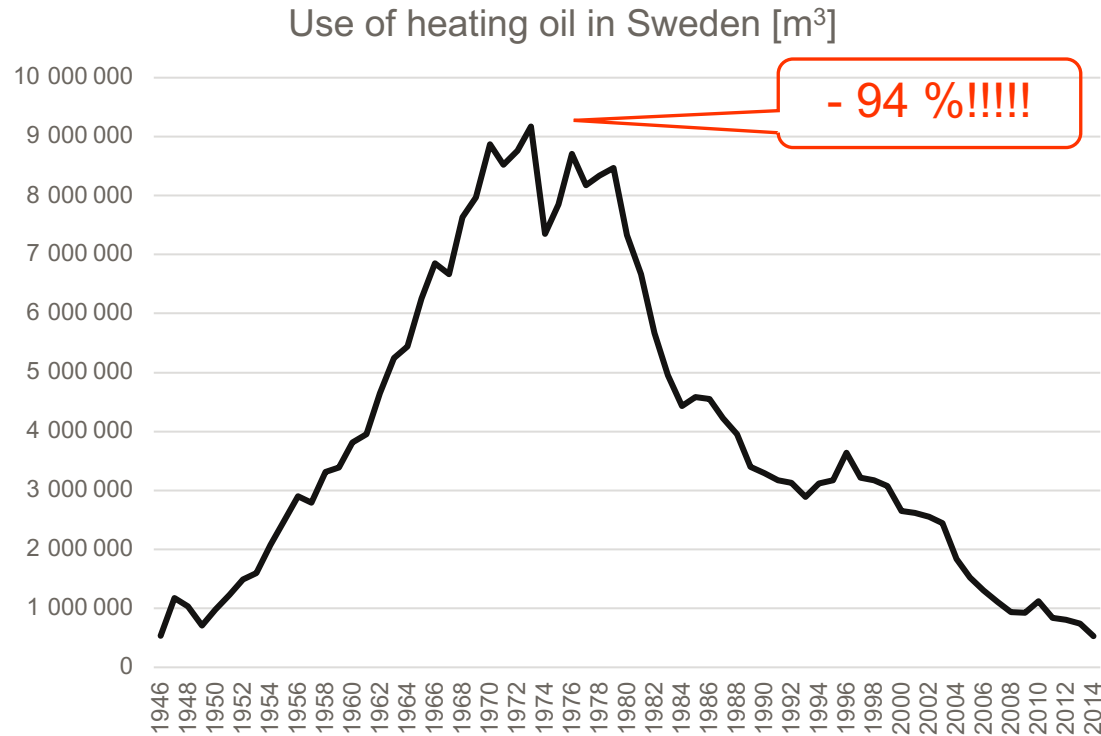
# Concentration of Geothermal Heat Pumps Outside Stockholm



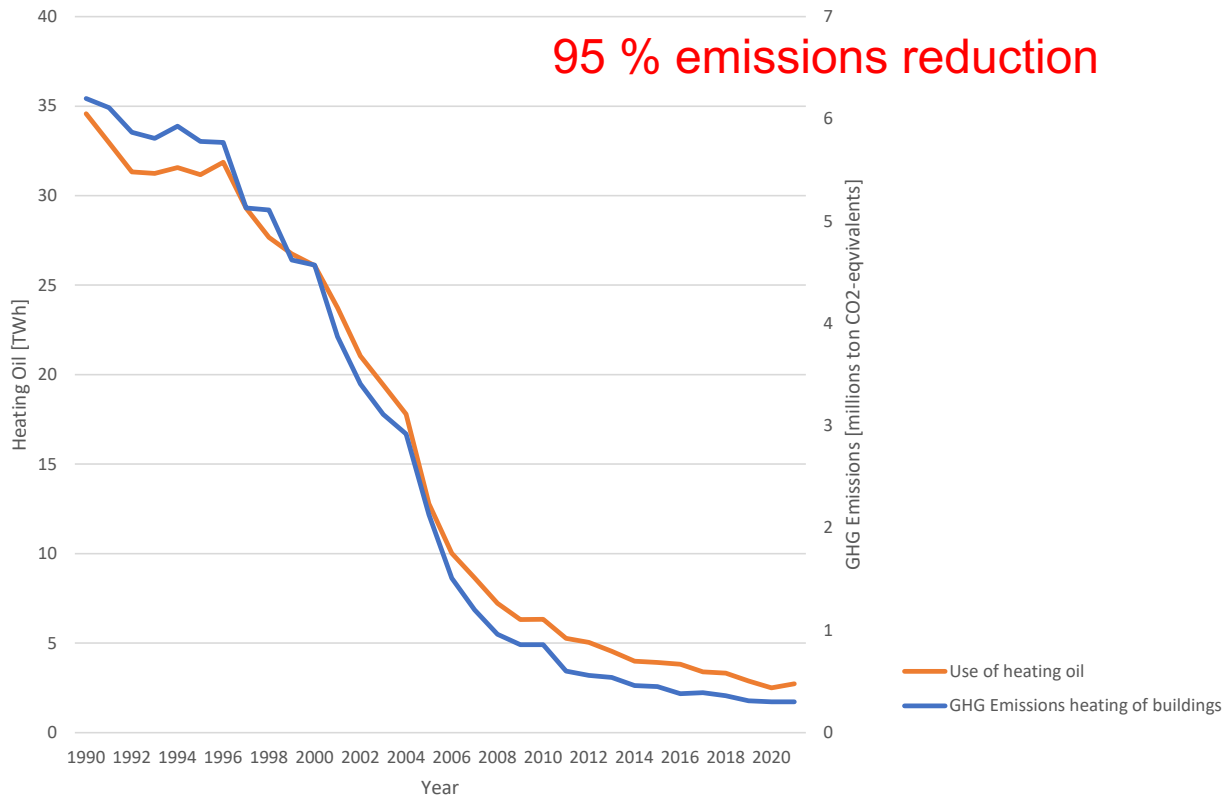
Source: Swedish Geological Survey 2023



# Consequences of the use of heat pumps in Sweden

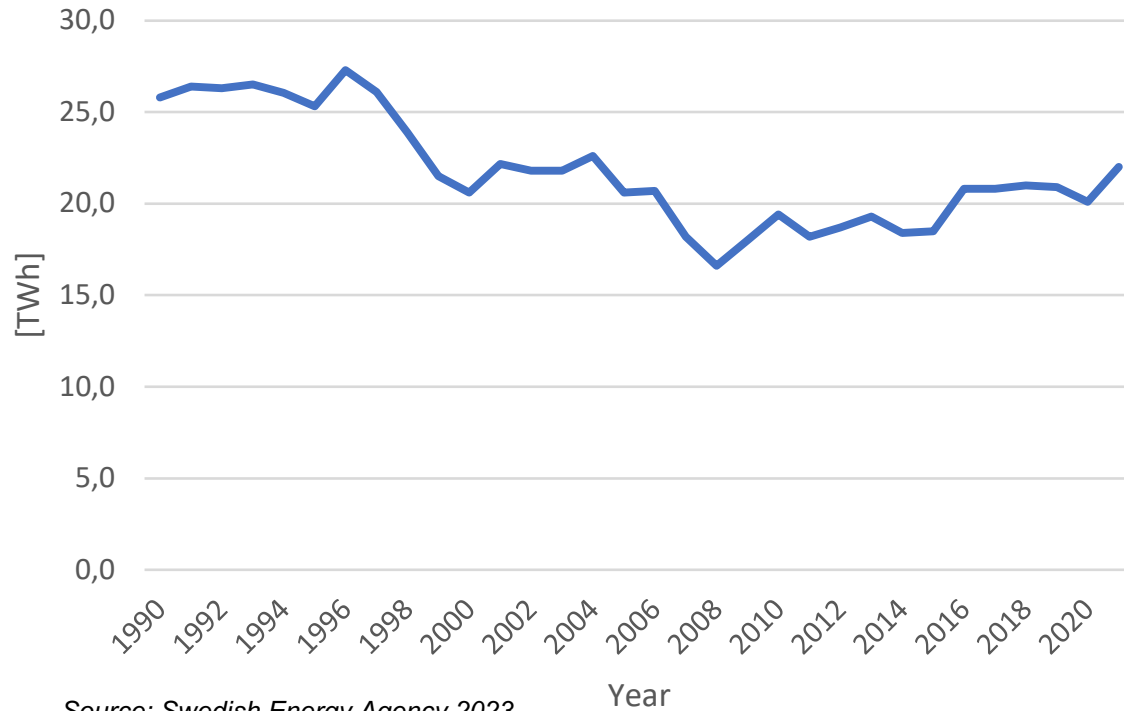


# Greenhouse Gas Emissions, Use of Heating Oil –Heating of Buildings



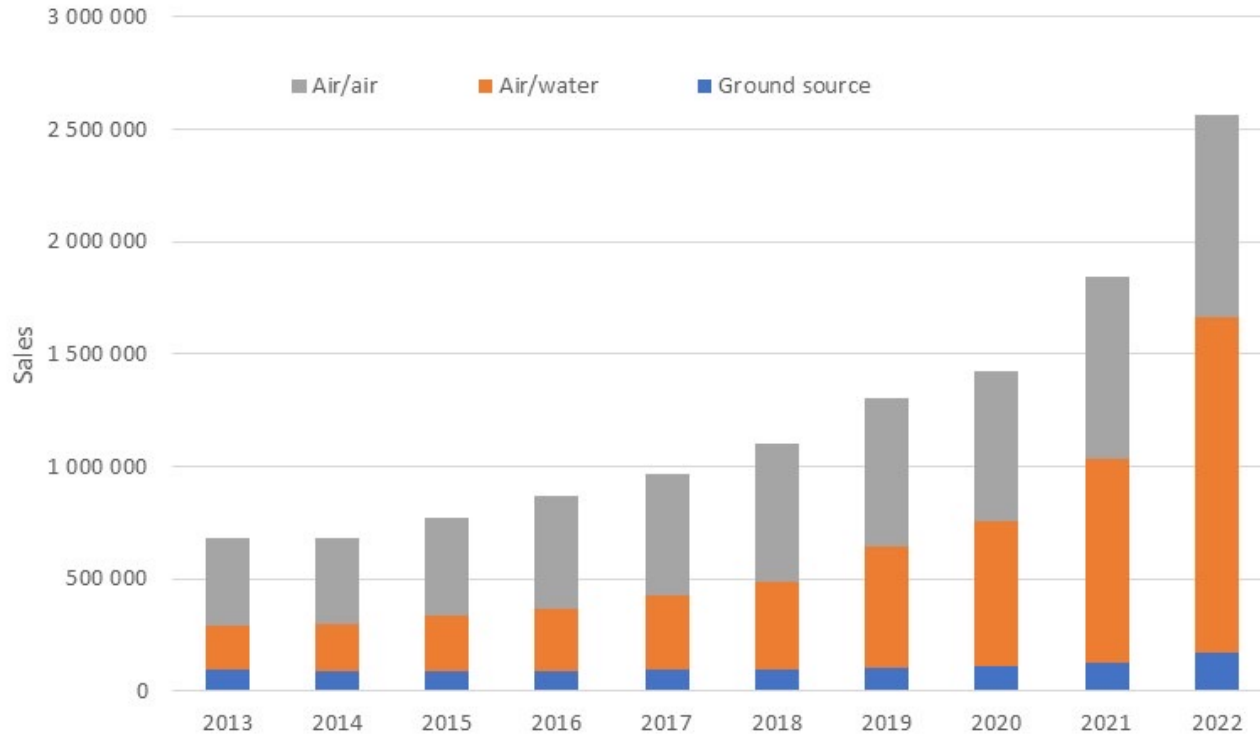
Source: Swedish Energy Agency 2022

# Use of Electricity for Heating Purposes 1990 - 2020

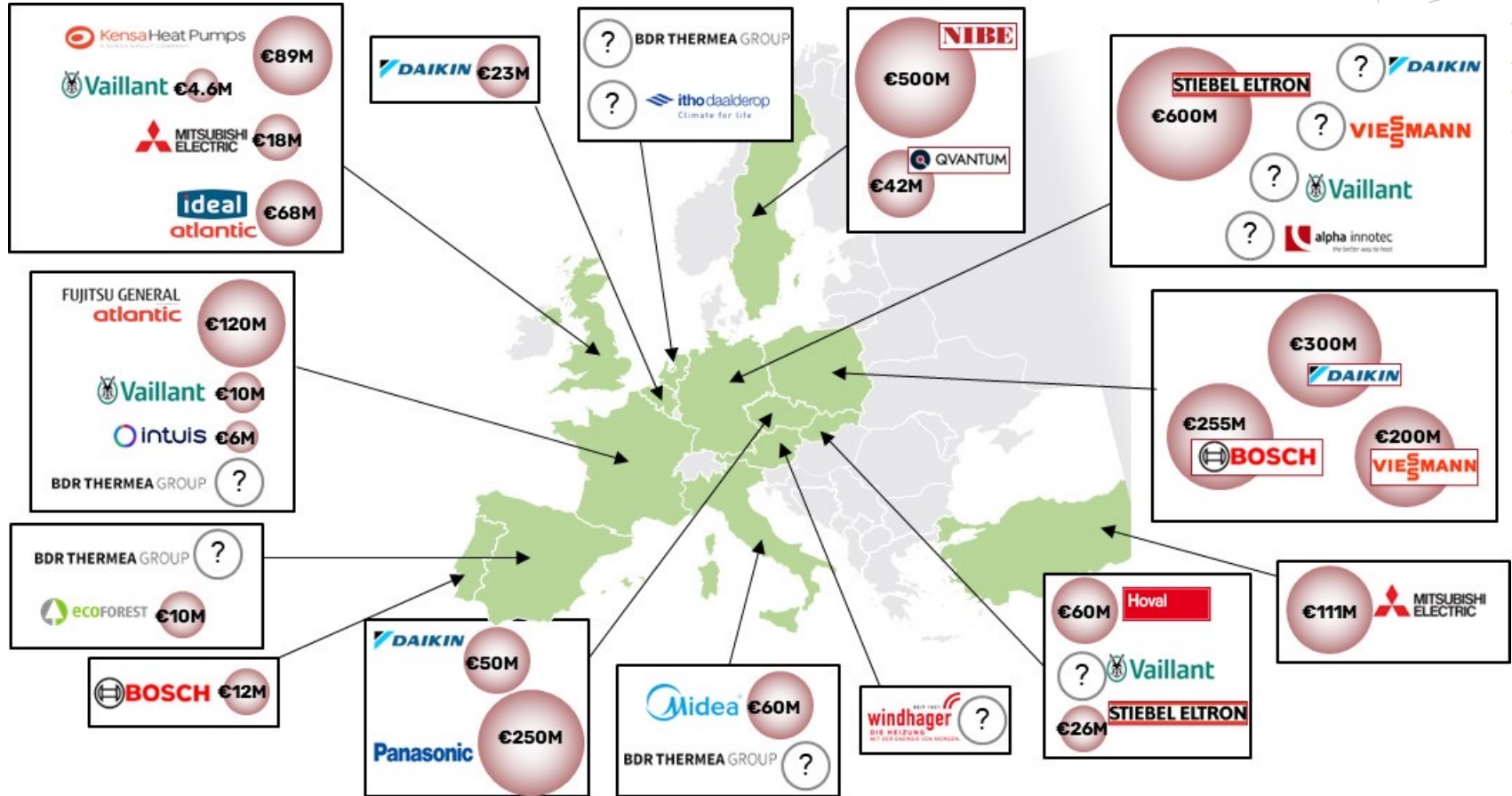


Source: Swedish Energy Agency 2023

# European Heat Pump Sales

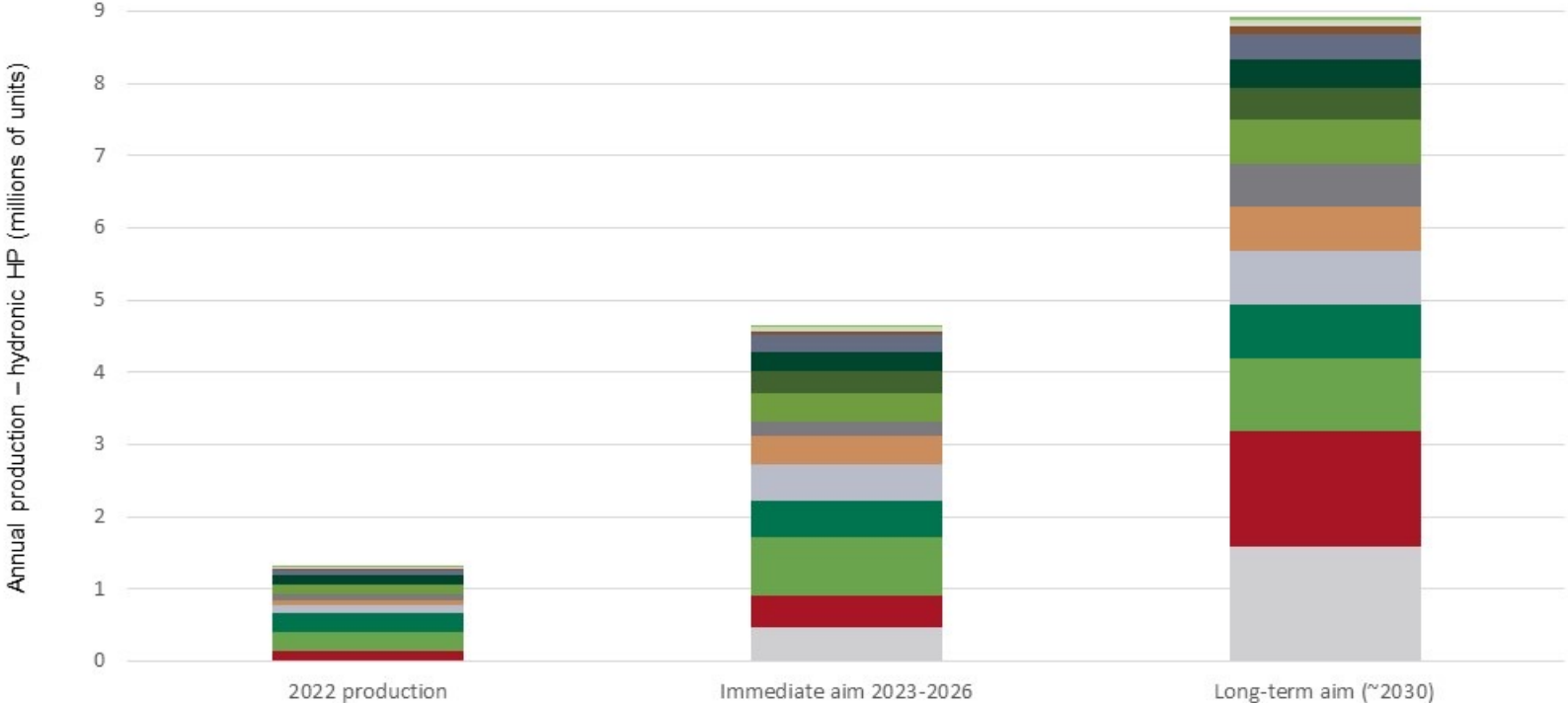


# Ramping up European production capacity



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Data represents published manufacturing aims to mid-decade, and estimated or published aims to 2030.





Thank you for the attention!

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