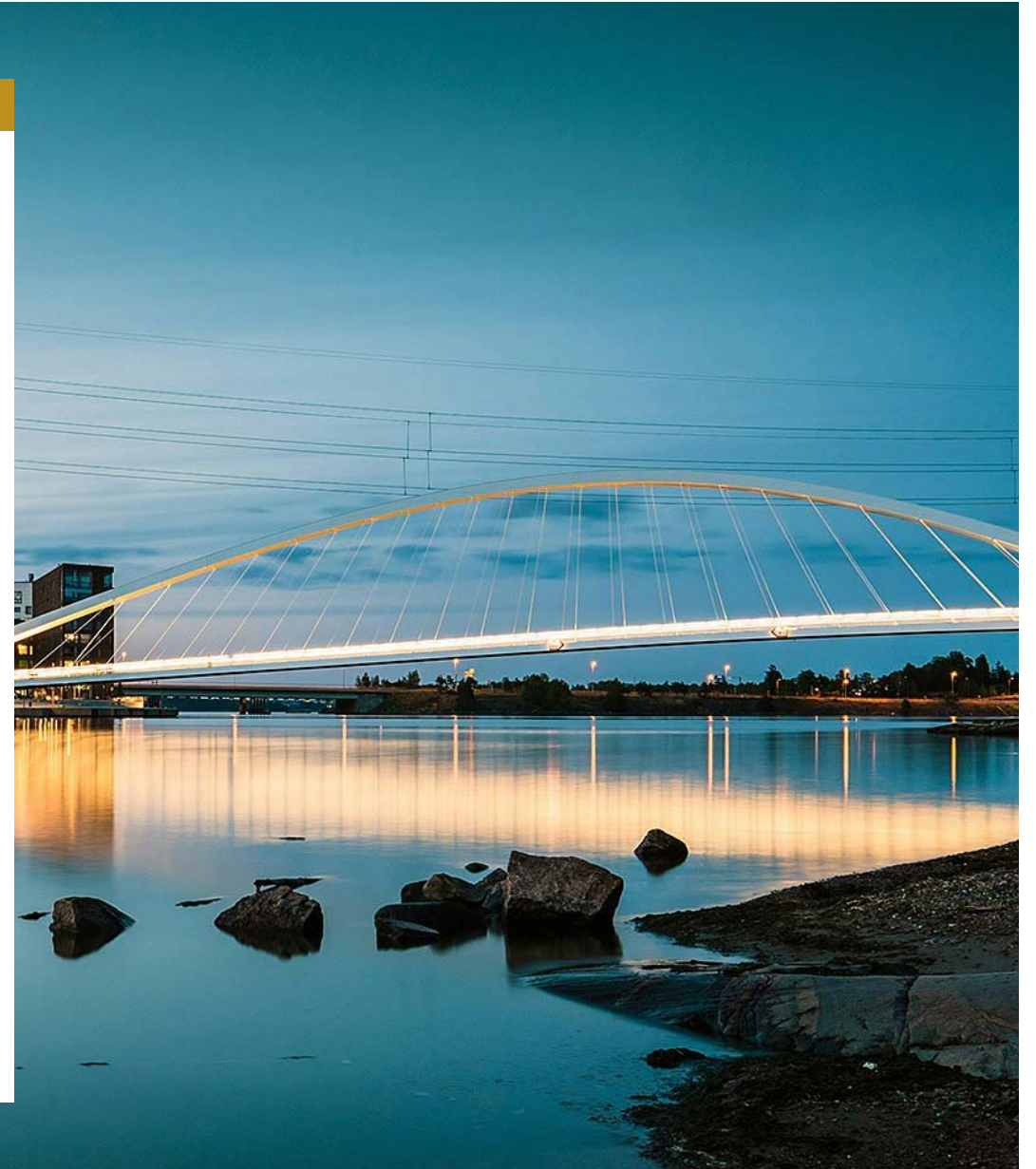


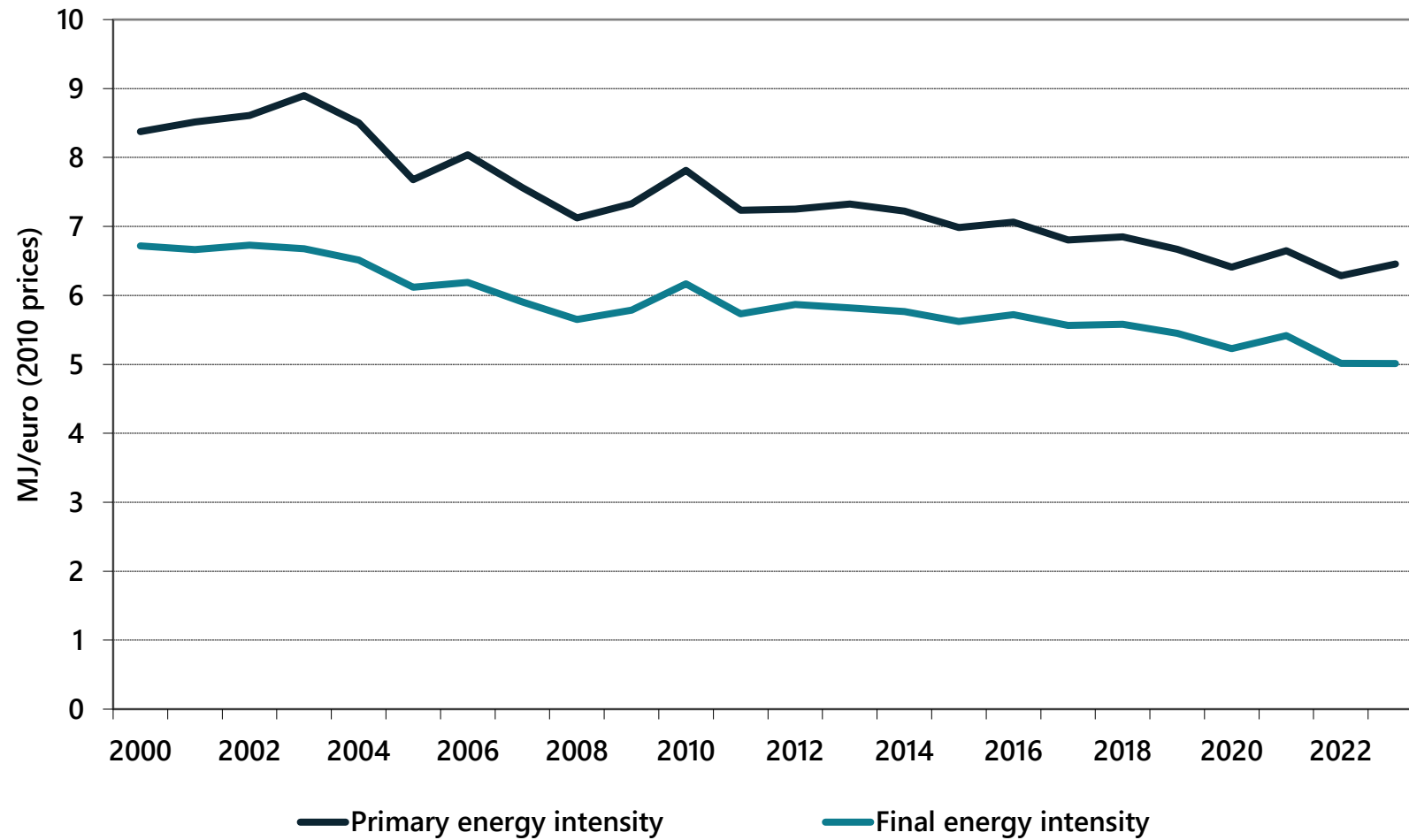
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Energy Efficiency Trends and Drivers

Update with 2023 data

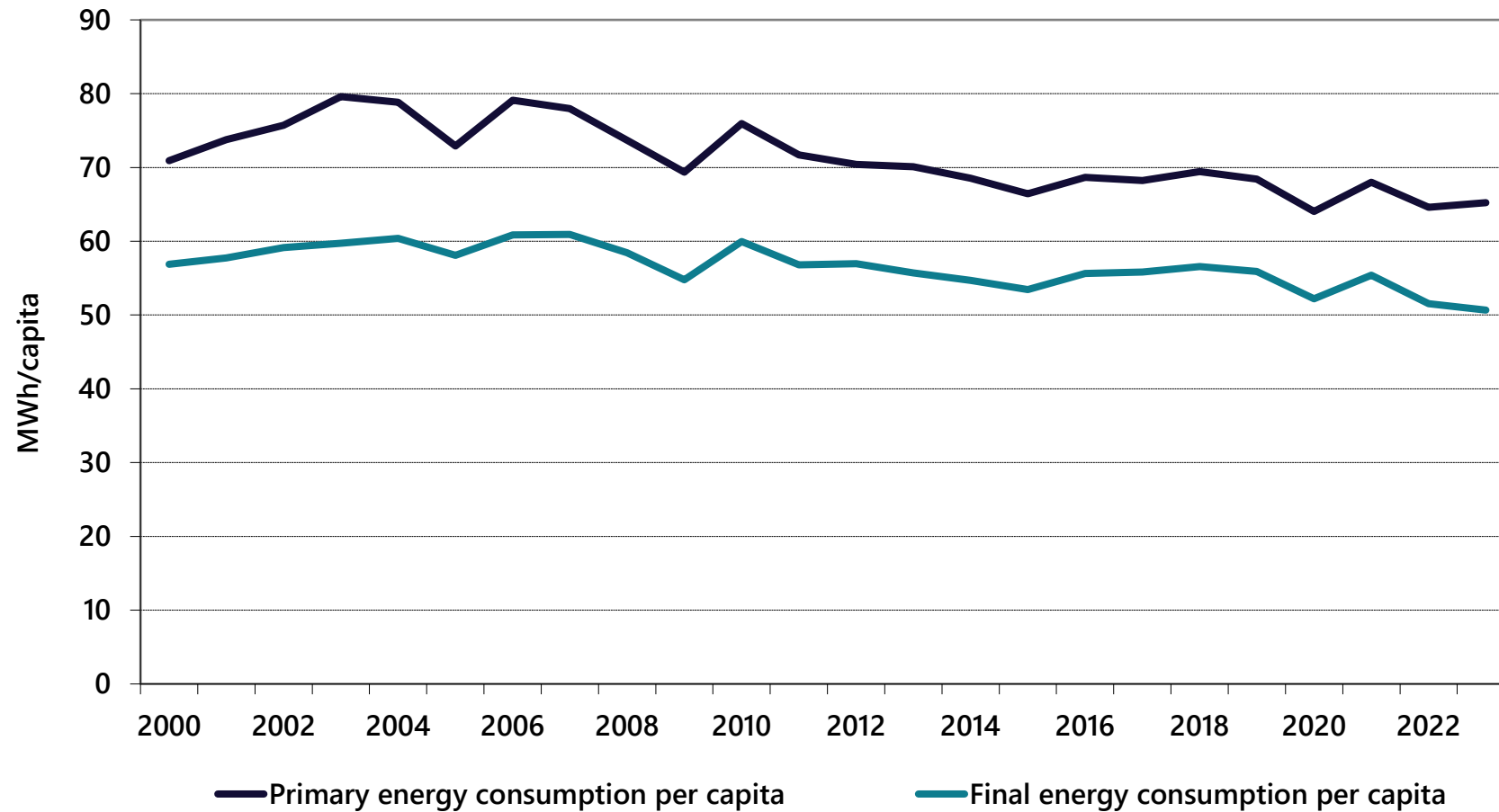


Energy intensity



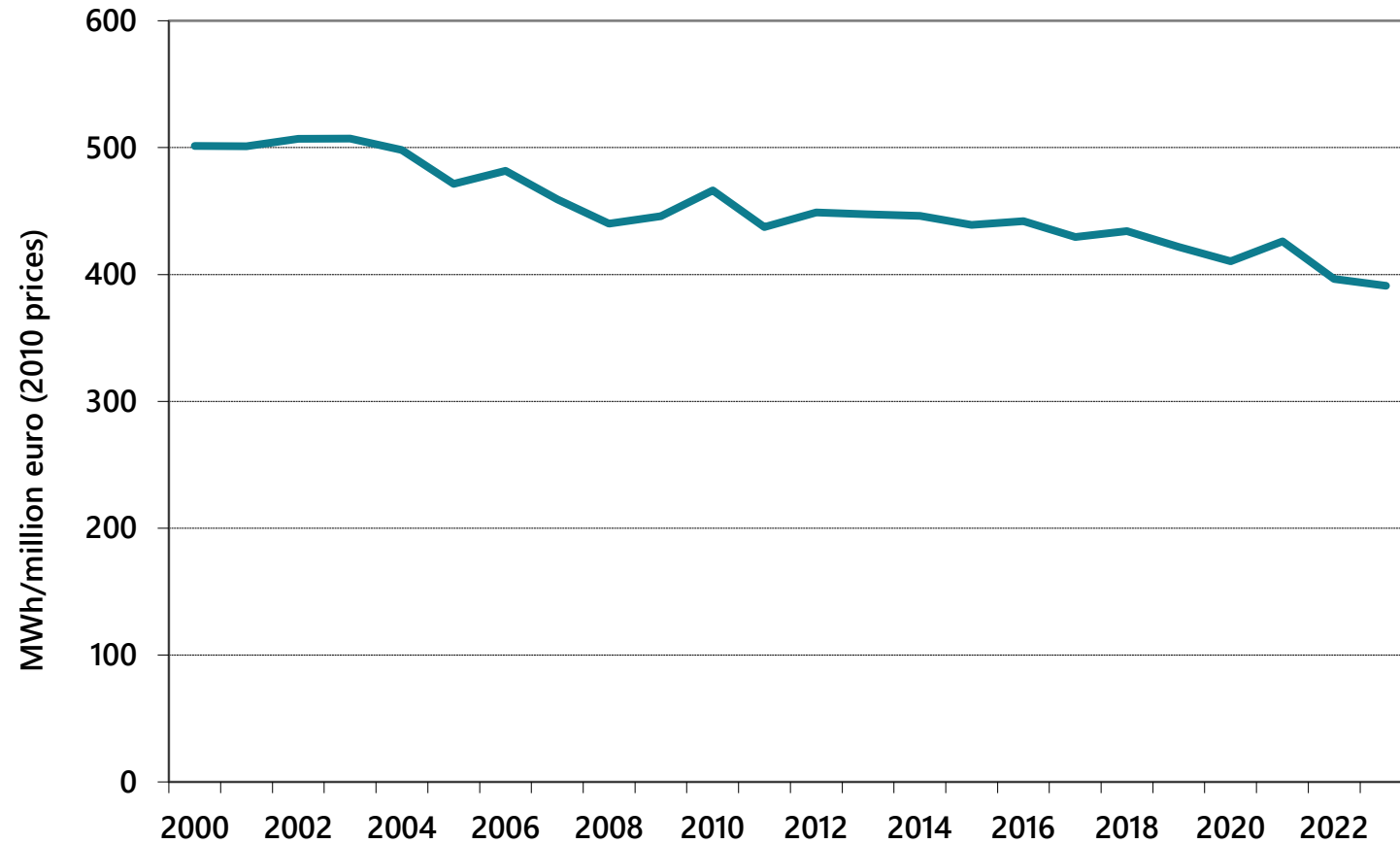
Source: Statistics Finland

Energy consumption per capita



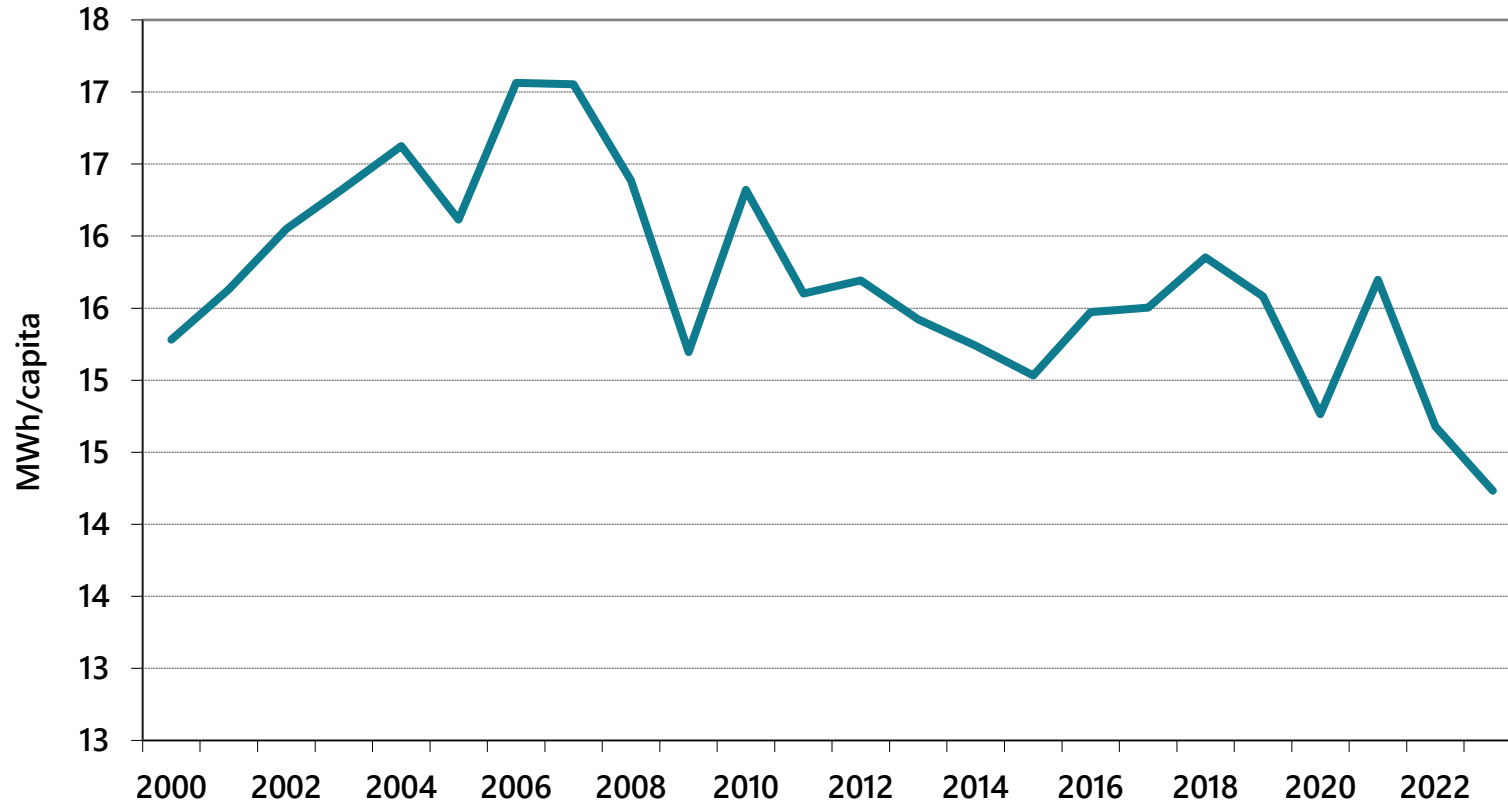
Source: Statistics Finland

Electricity intensity



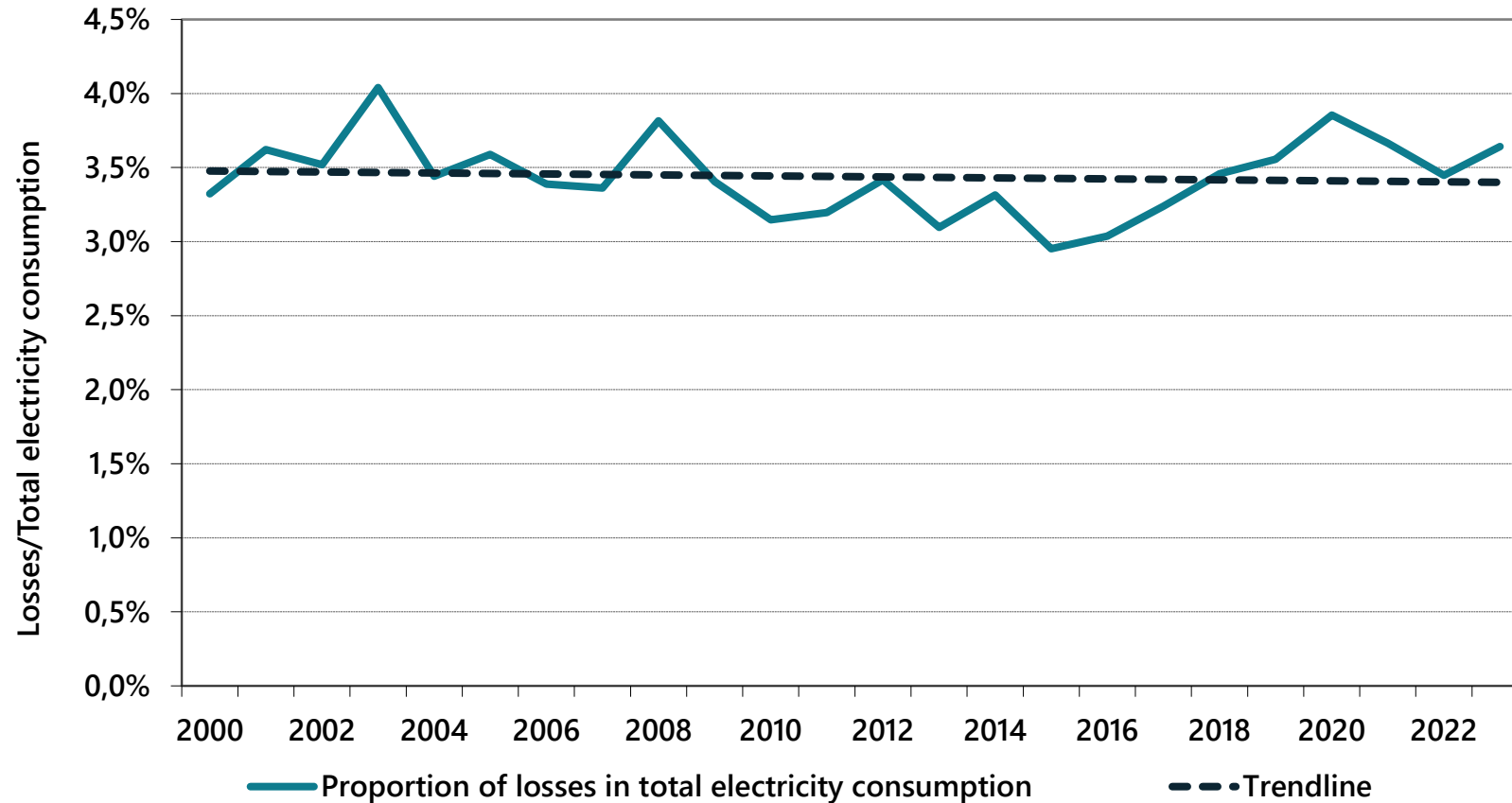
Source: Statistics Finland

Electricity consumption per capita



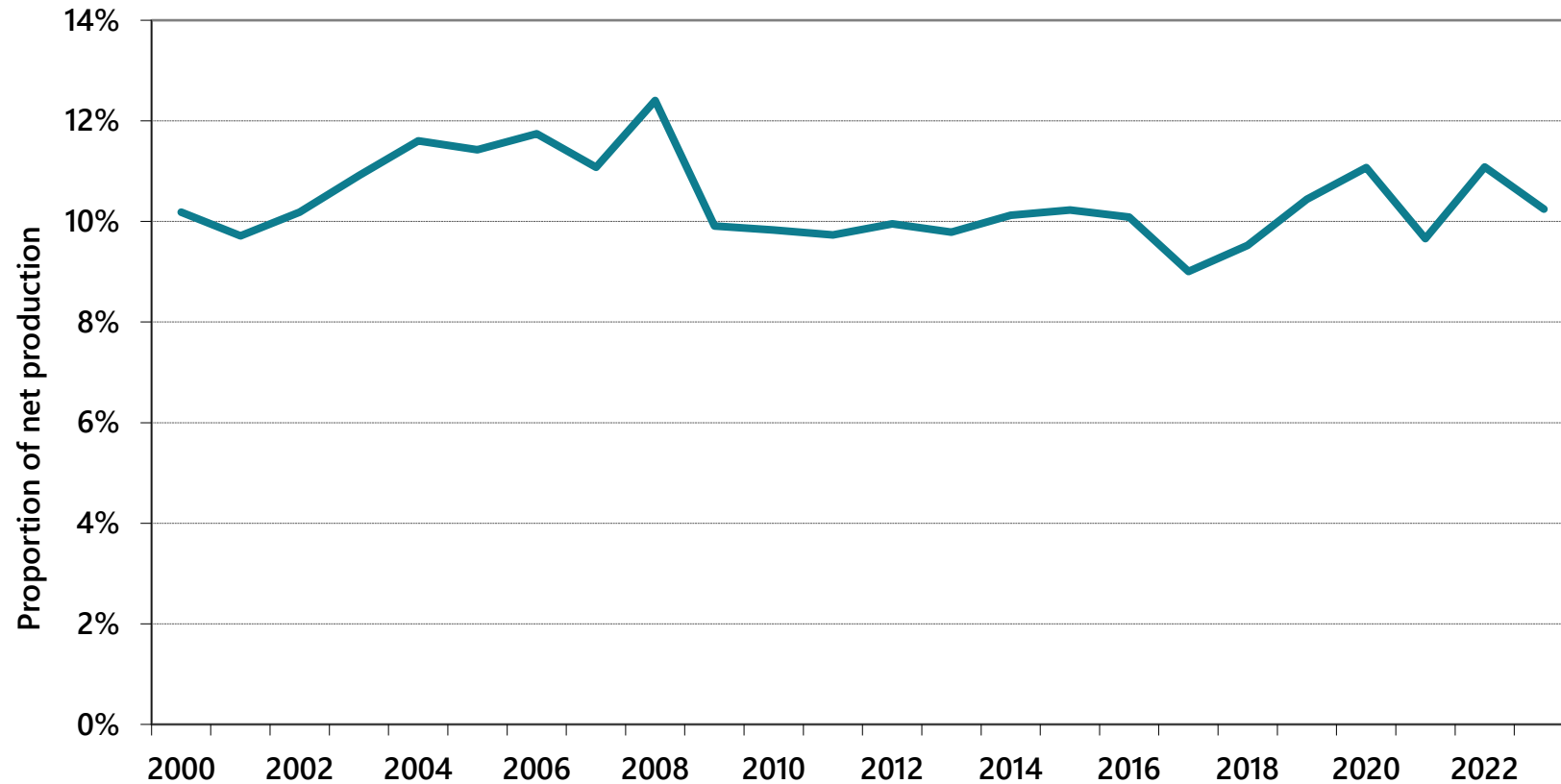
Source: Statistics Finland

Power transmission and distribution losses



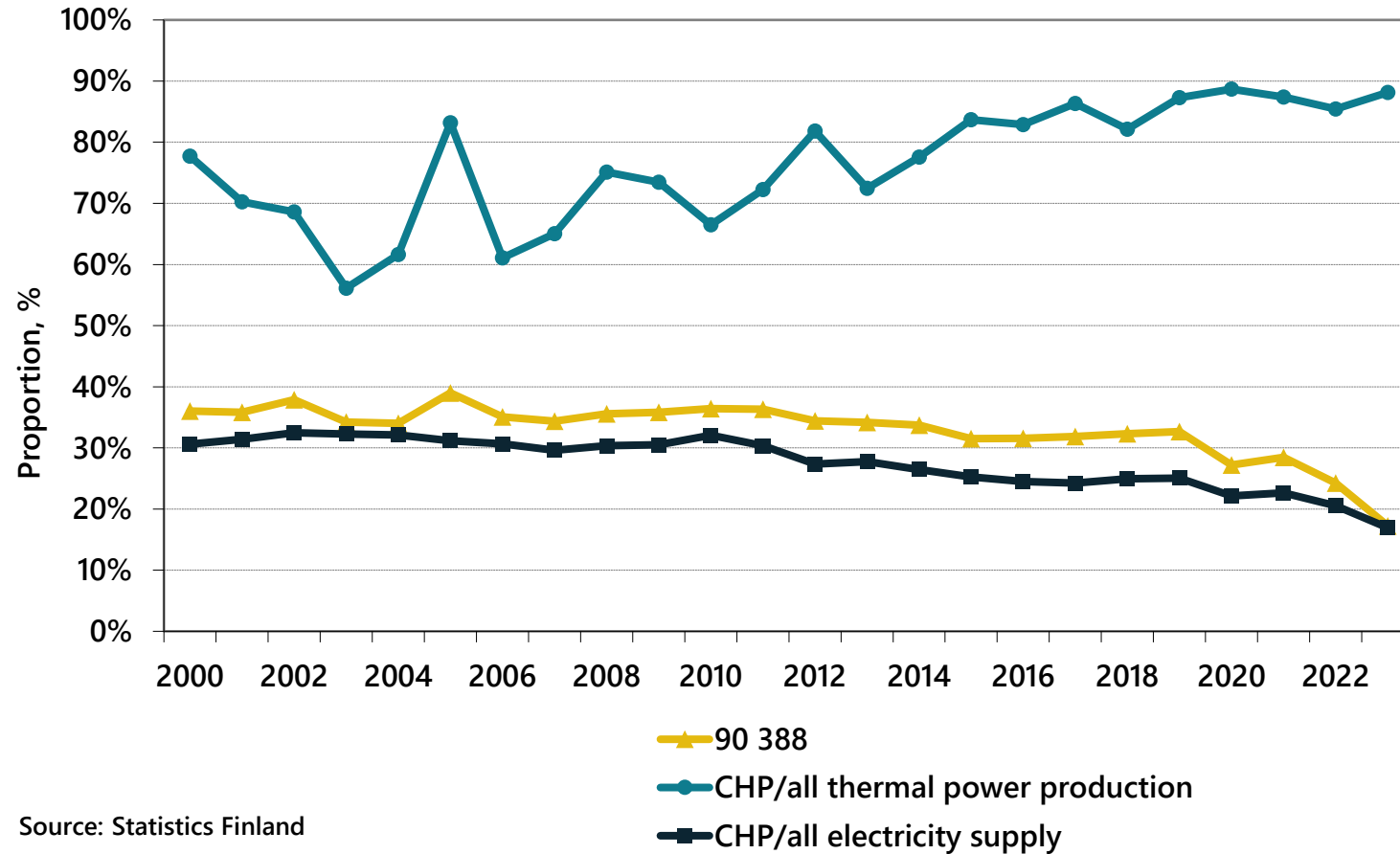
Source: Statistics Finland

Network and measuring losses of district heat



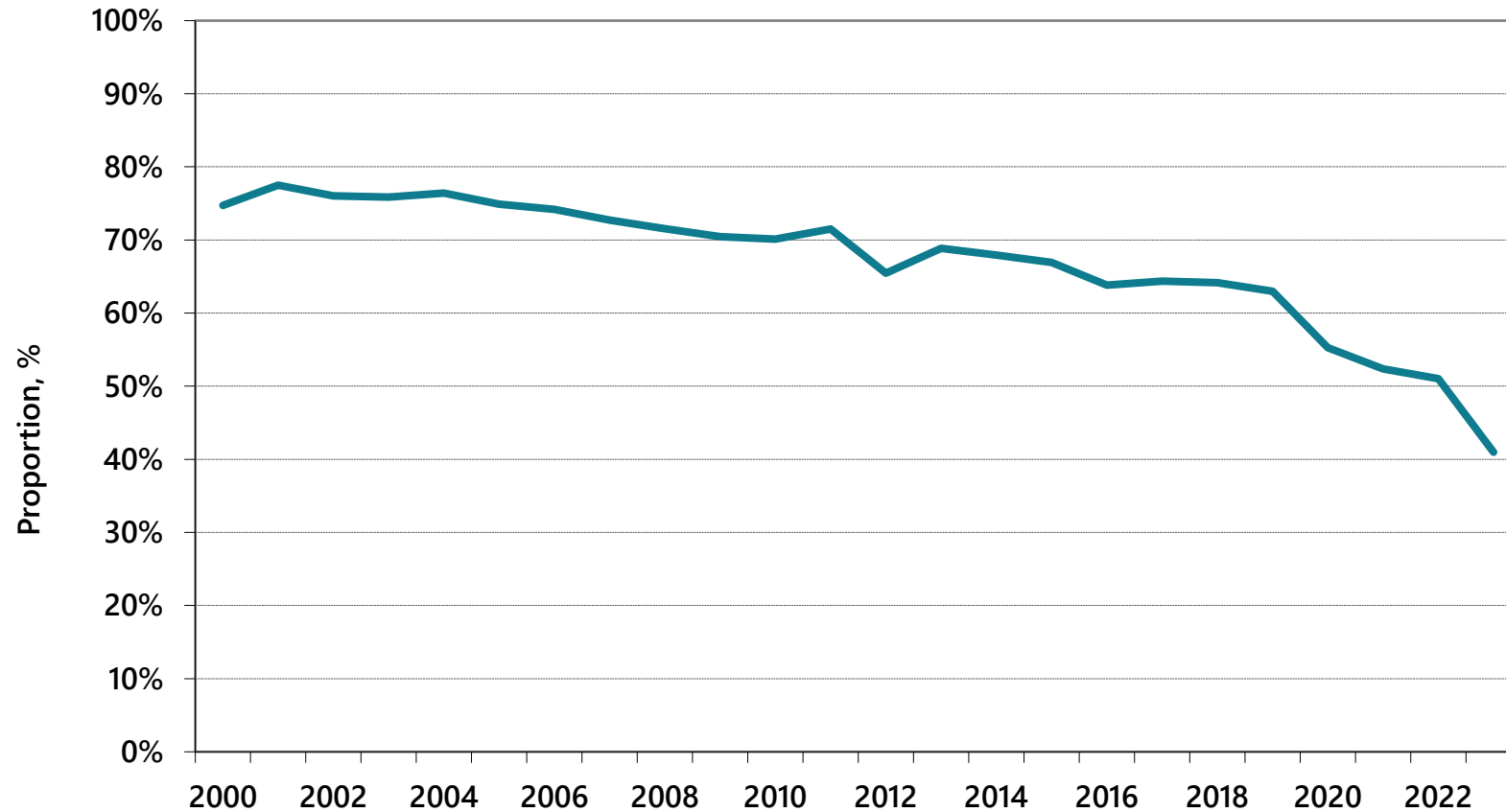
Source: Statistics Finland

Share of CHP in electricity supply, total electricity generation and total thermal electricity generation



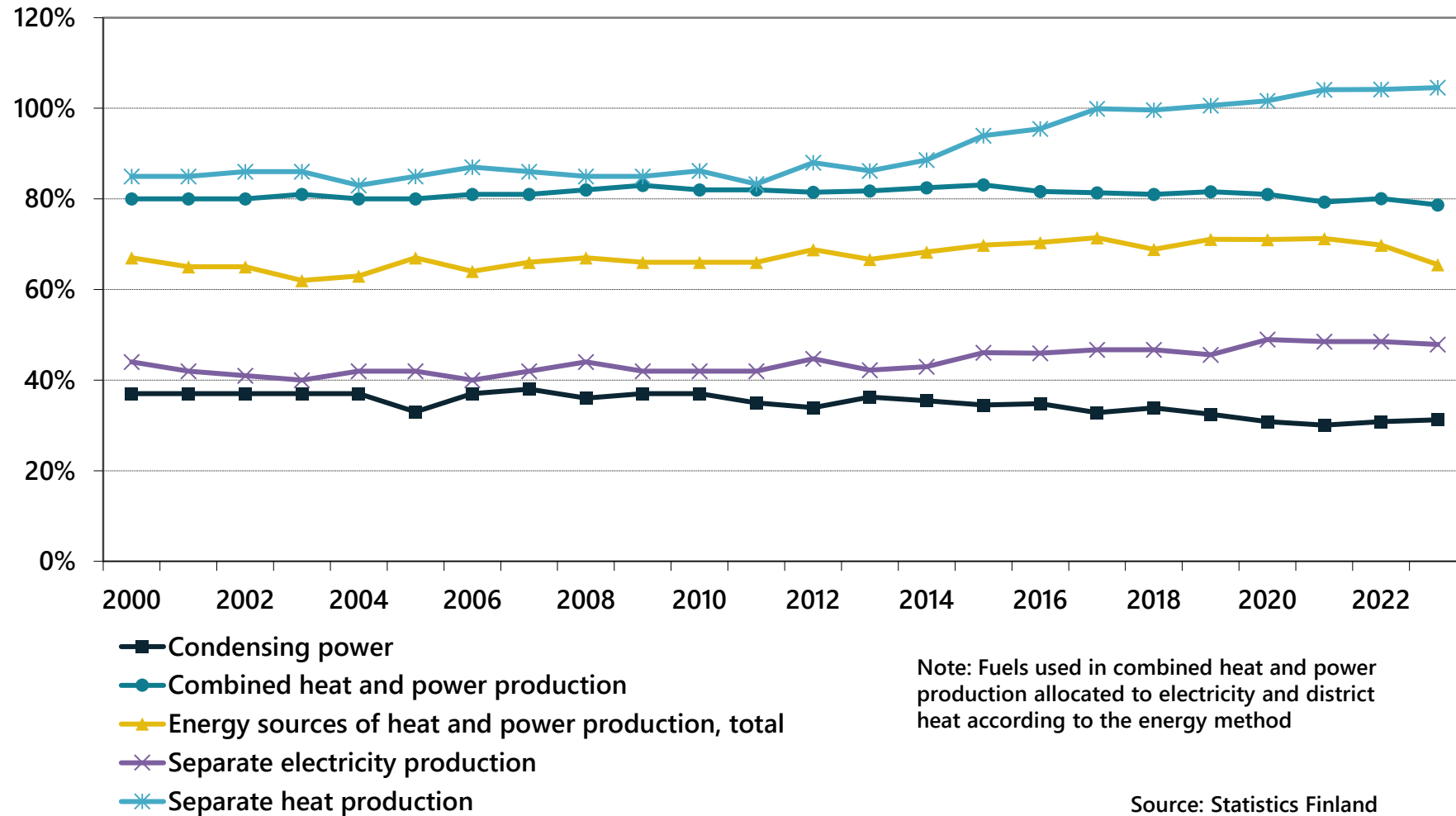
Source: Statistics Finland

Share of CHP in district heat production

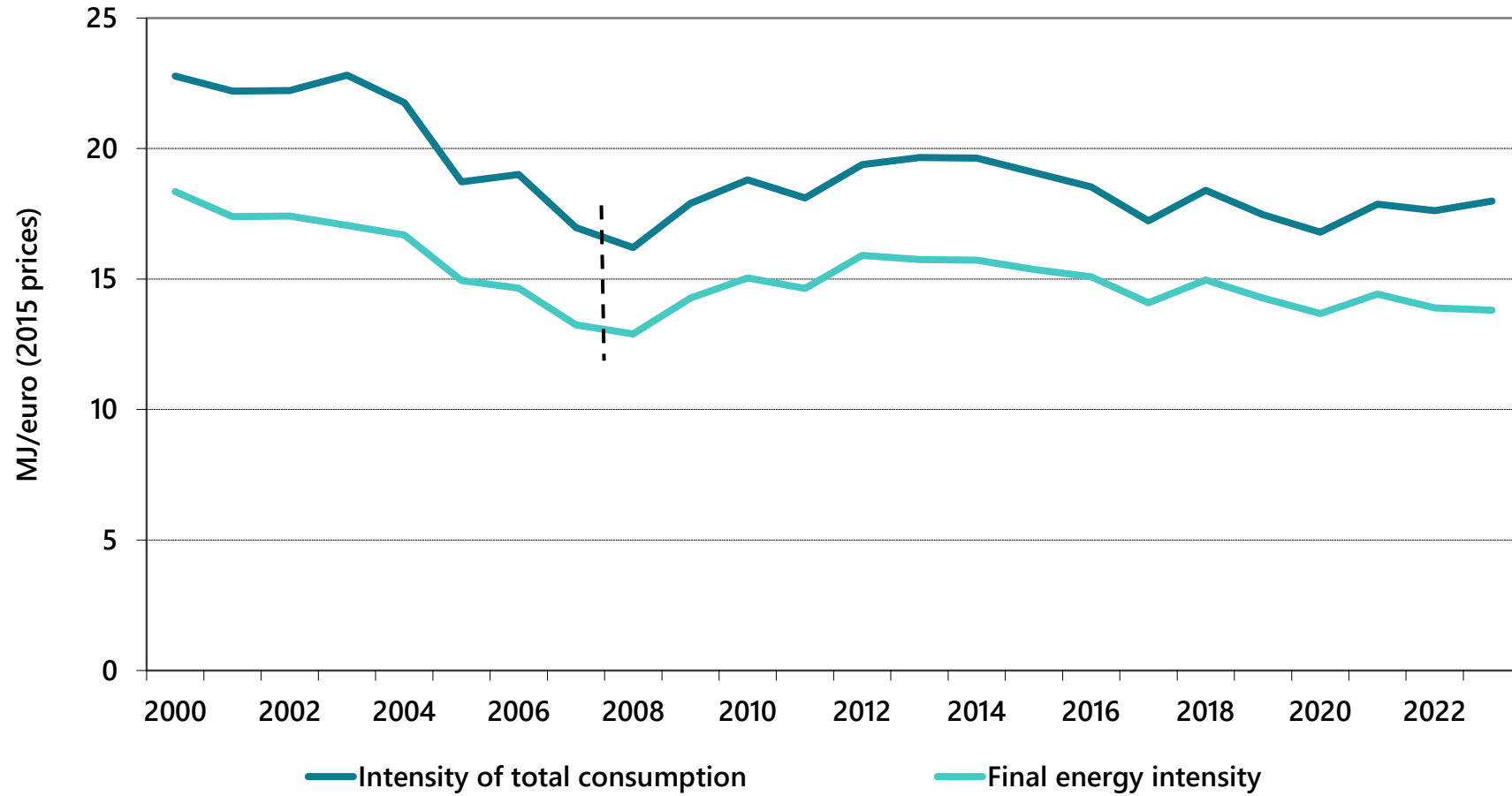


Source: Statistics Finland

Energy production efficiency

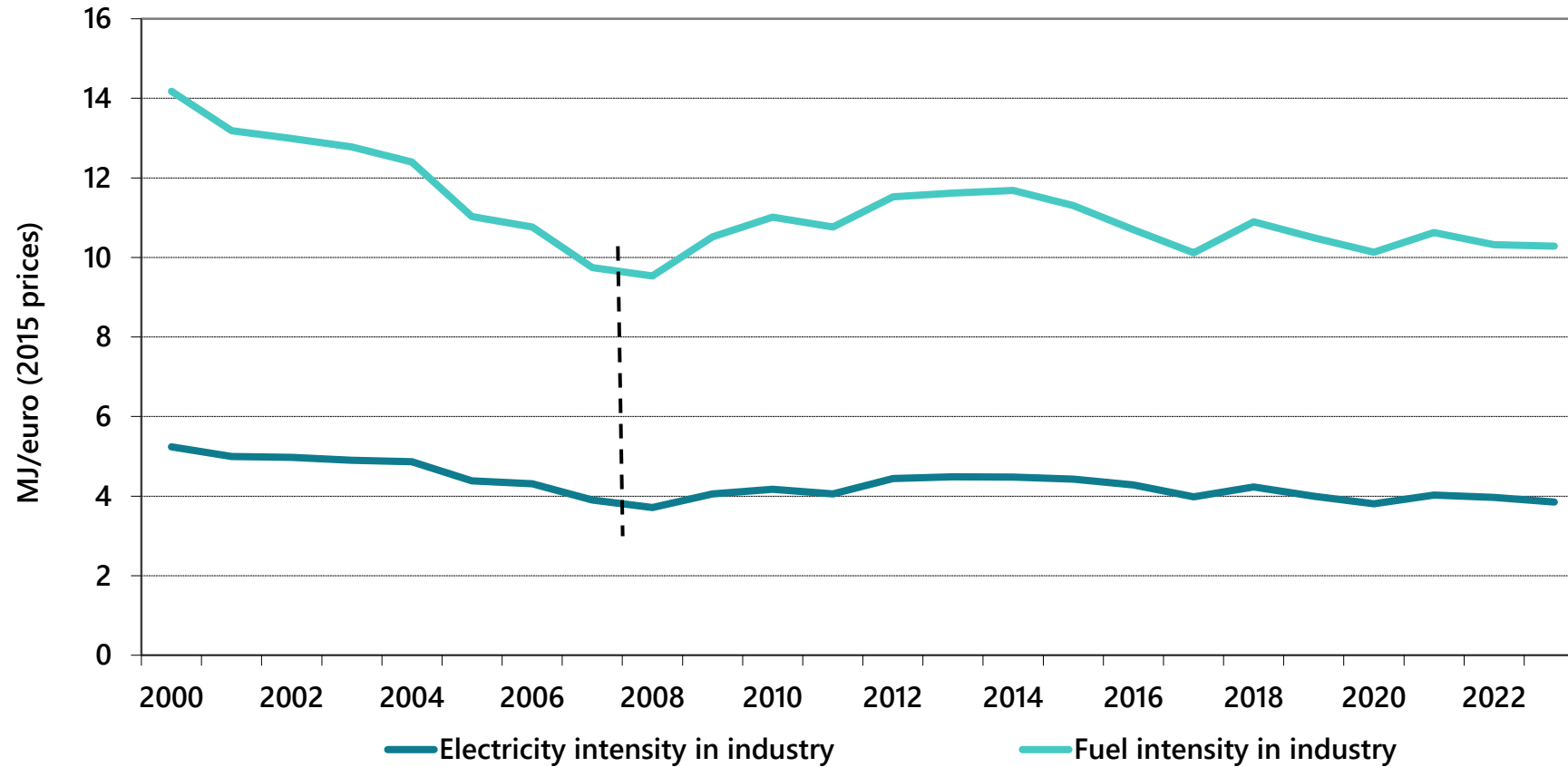


Energy intensity of industry



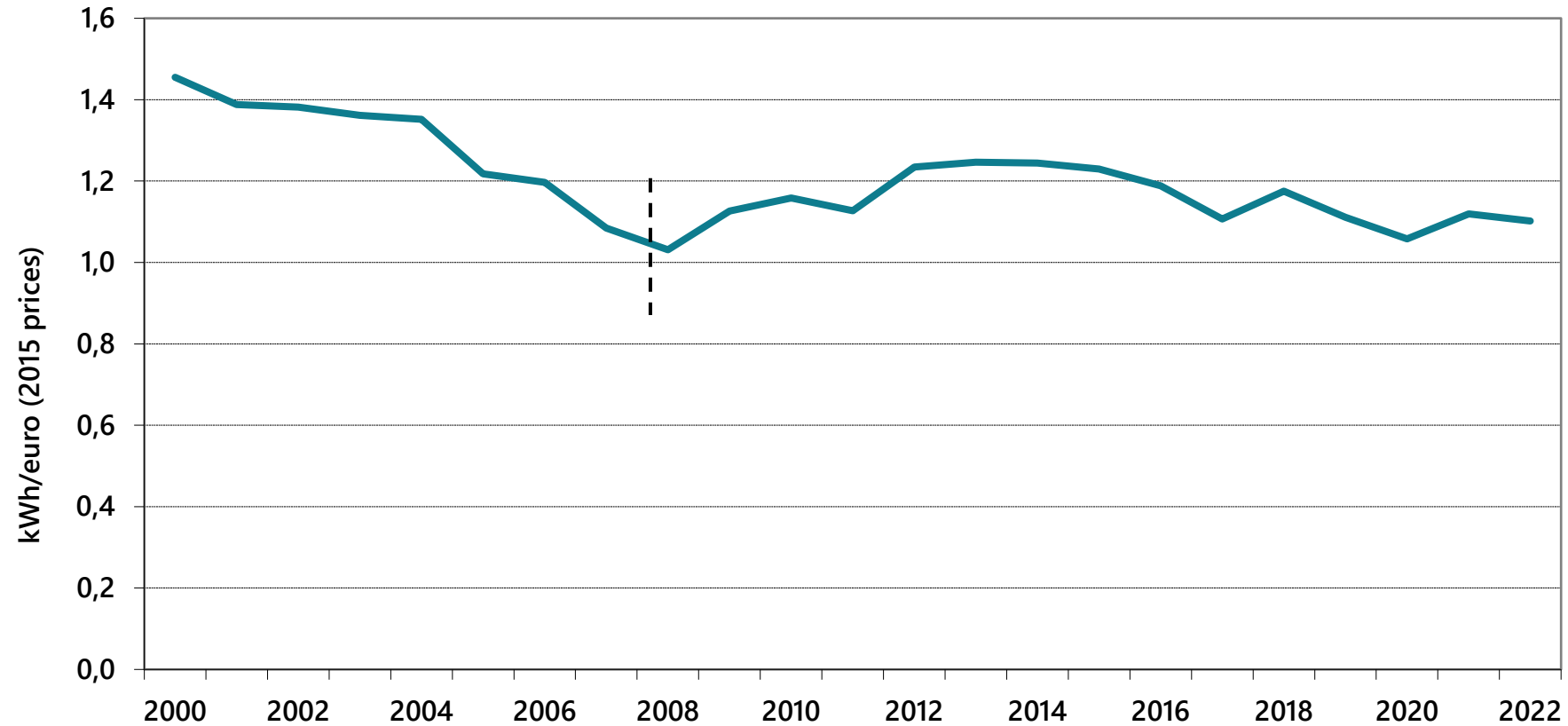
Source: Statistics Finland. Note: Breaks in time series.

Electricity and fuel intensities of industry



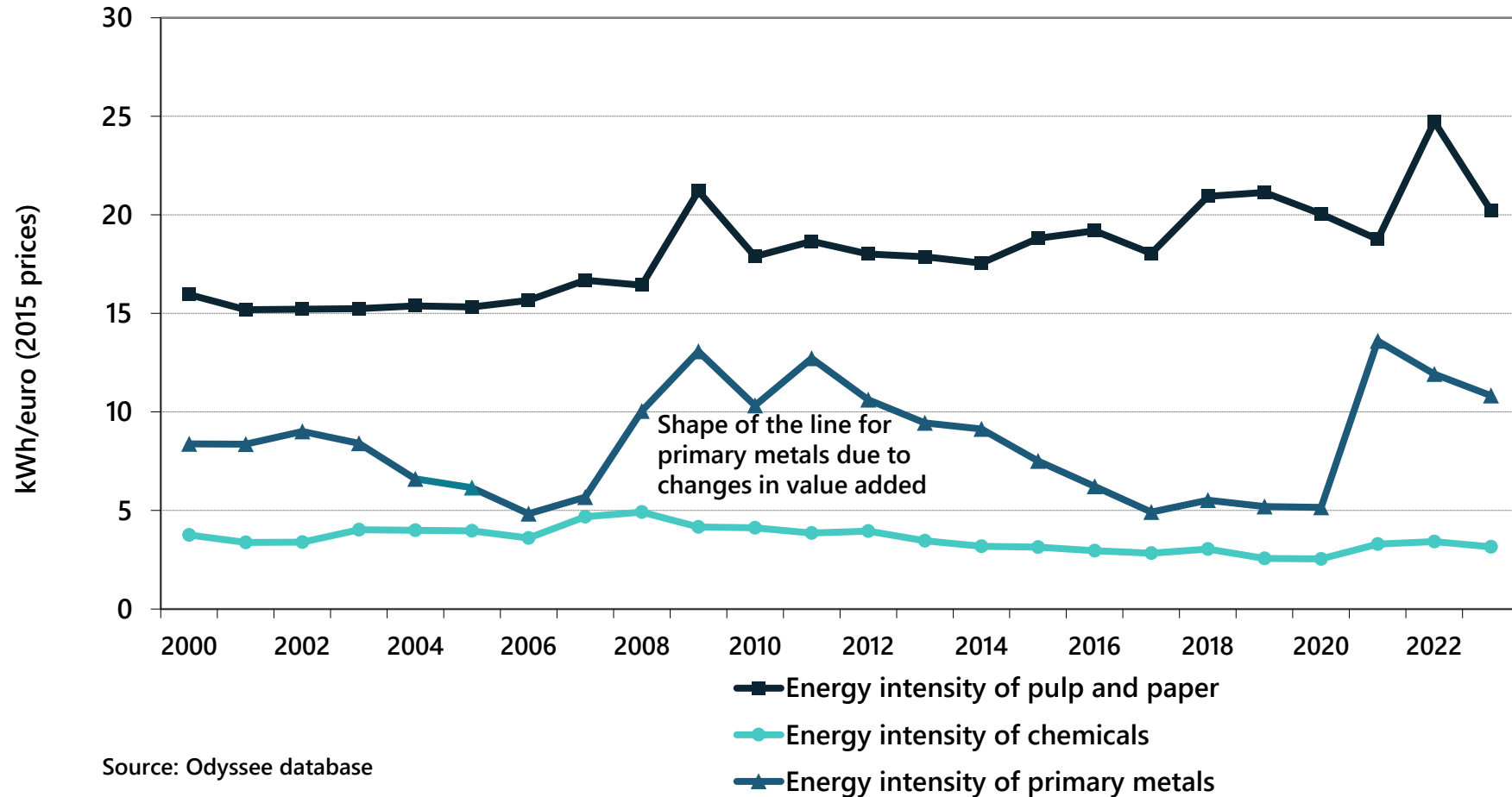
Source: Statistics Finland. Note: Breaks in time series.

Electricity intensity of industry

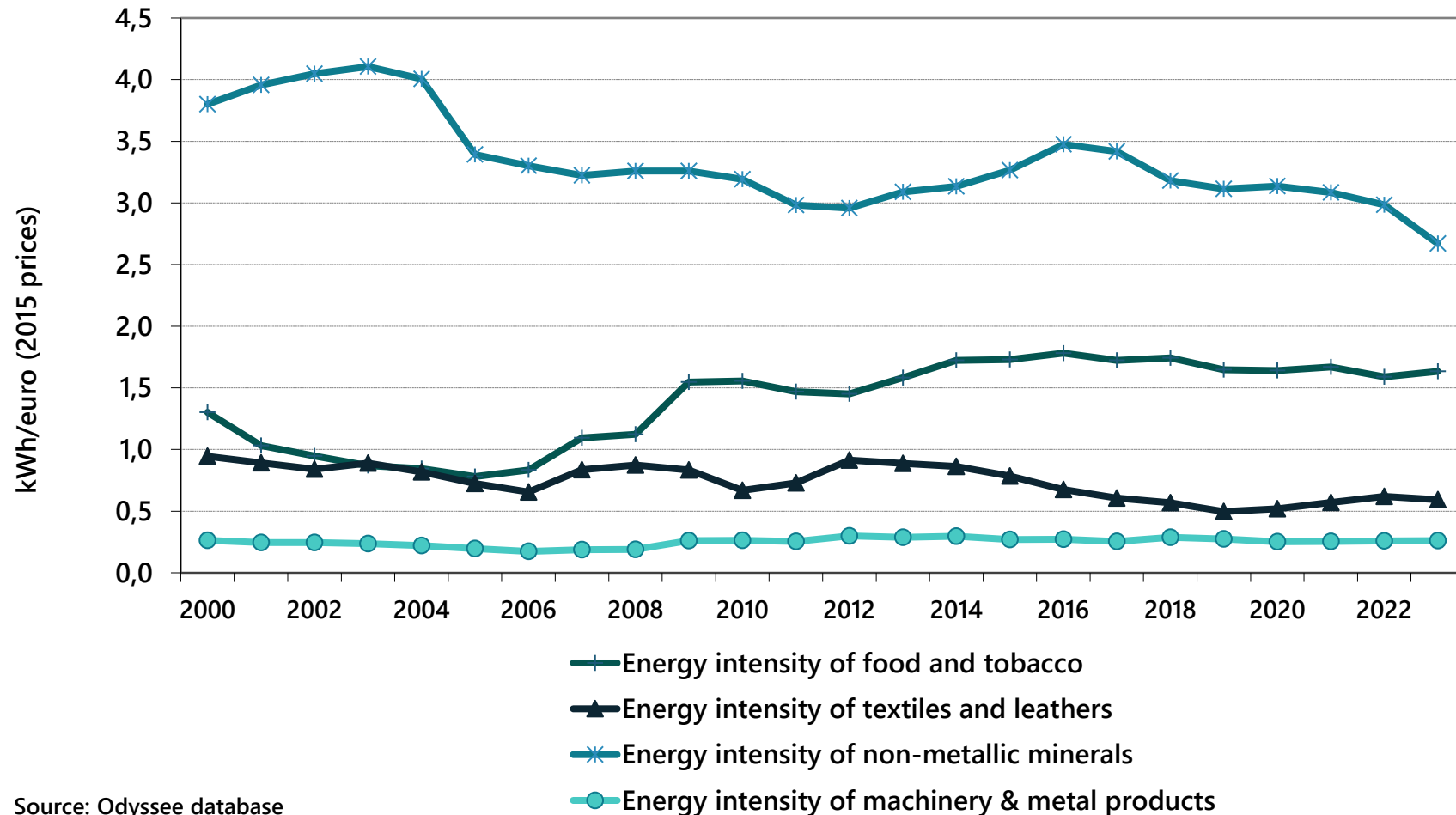


Source: Statistics Finland. Note! Break in data series.

Energy intensity in pulp and paper, chemical and primary metals industry

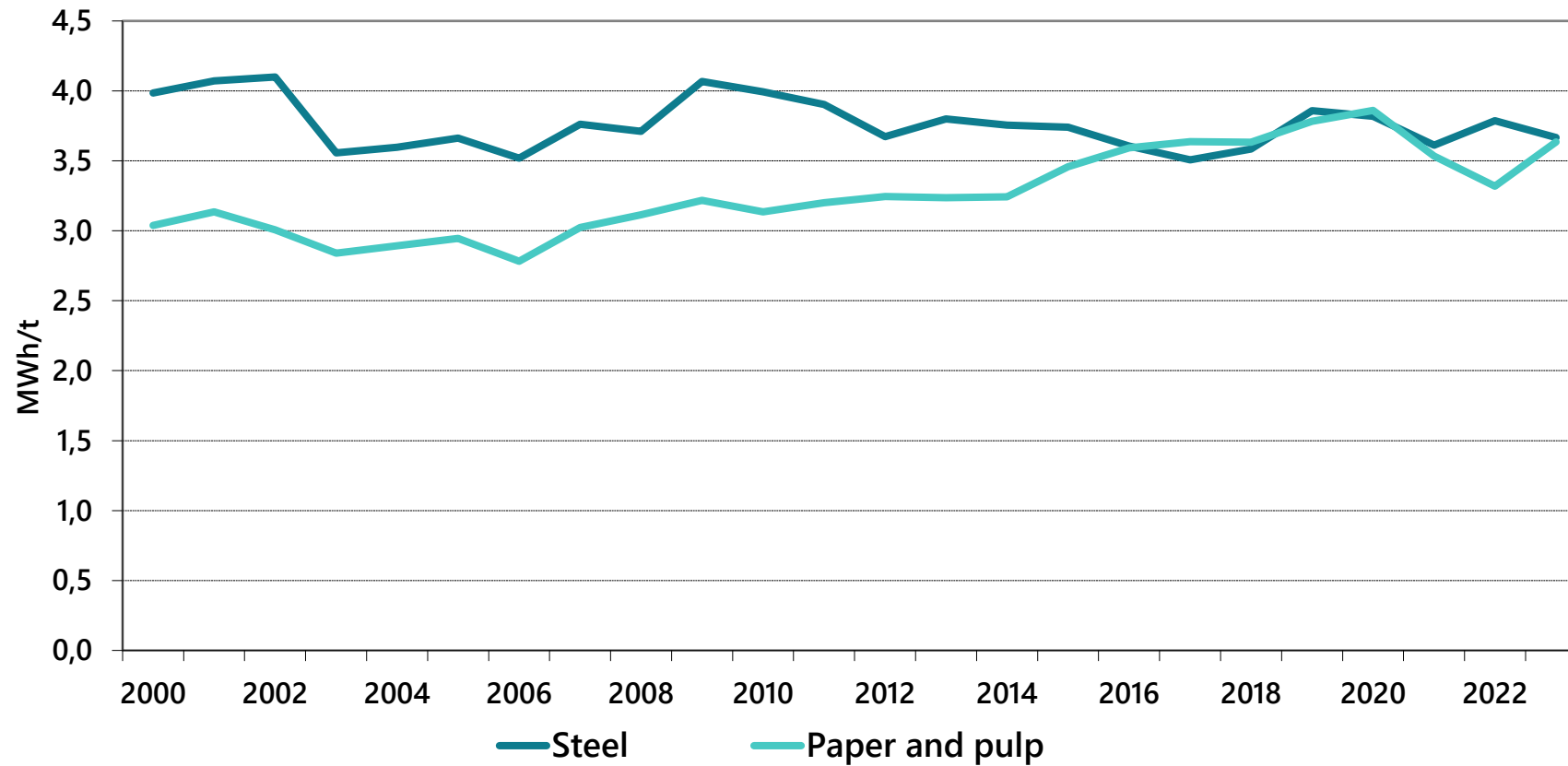


Energy intensity in food, textiles, non-metallic minerals and machinery and metal products industry



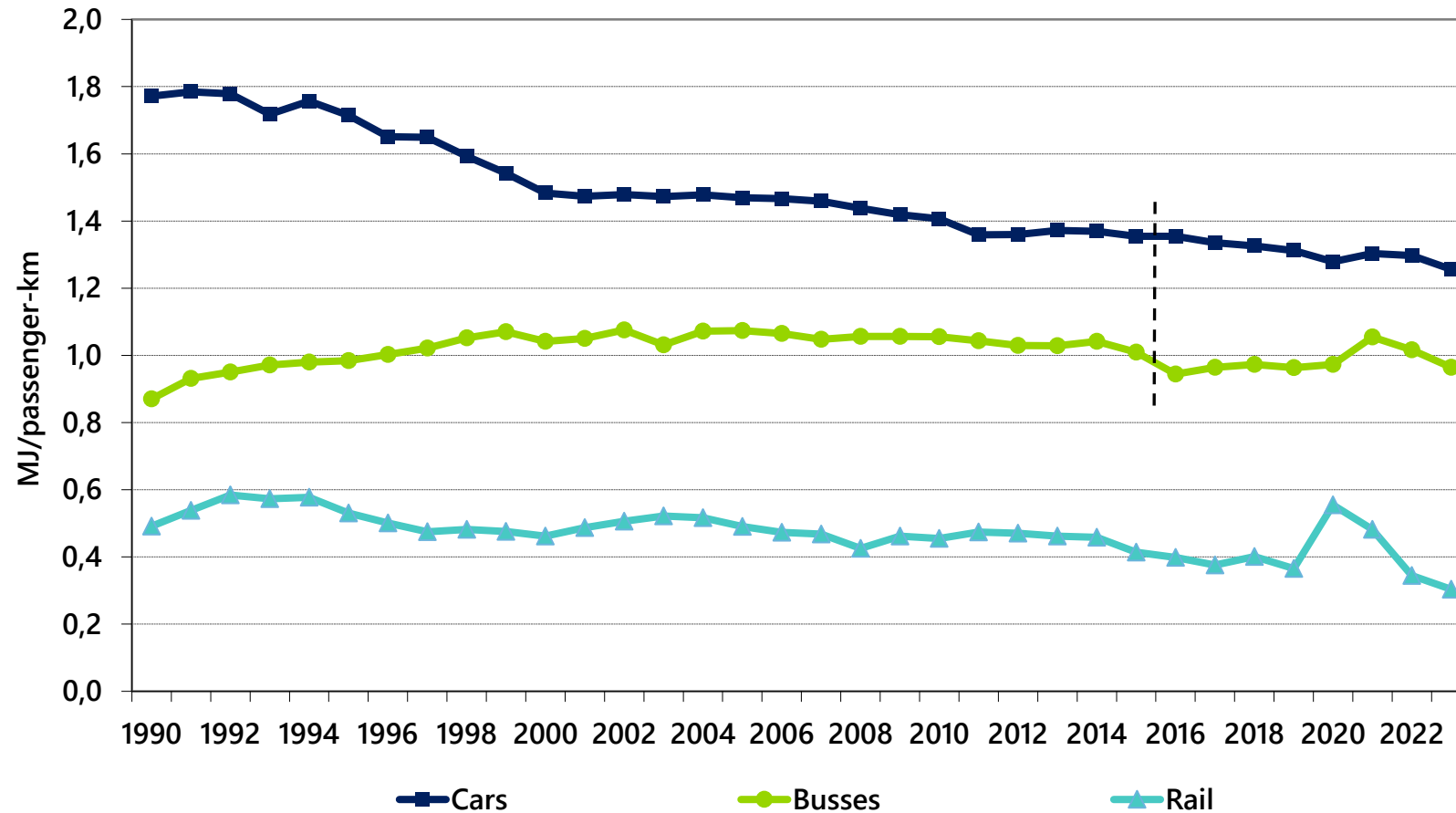
Source: Odyssee database

Specific energy consumption of steel and paper & pulp production



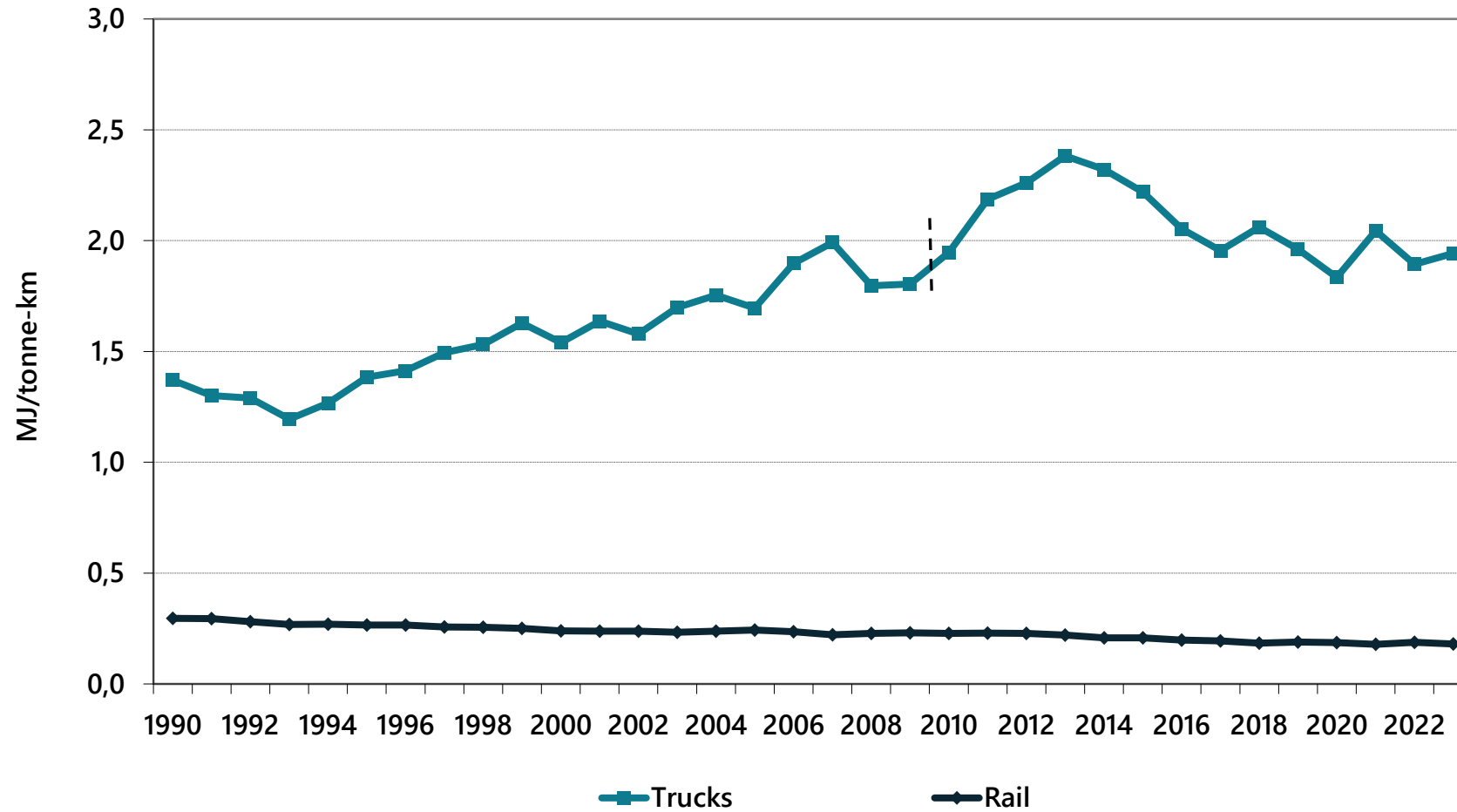
Source: Odyssee database

Specific consumption of personnel traffic



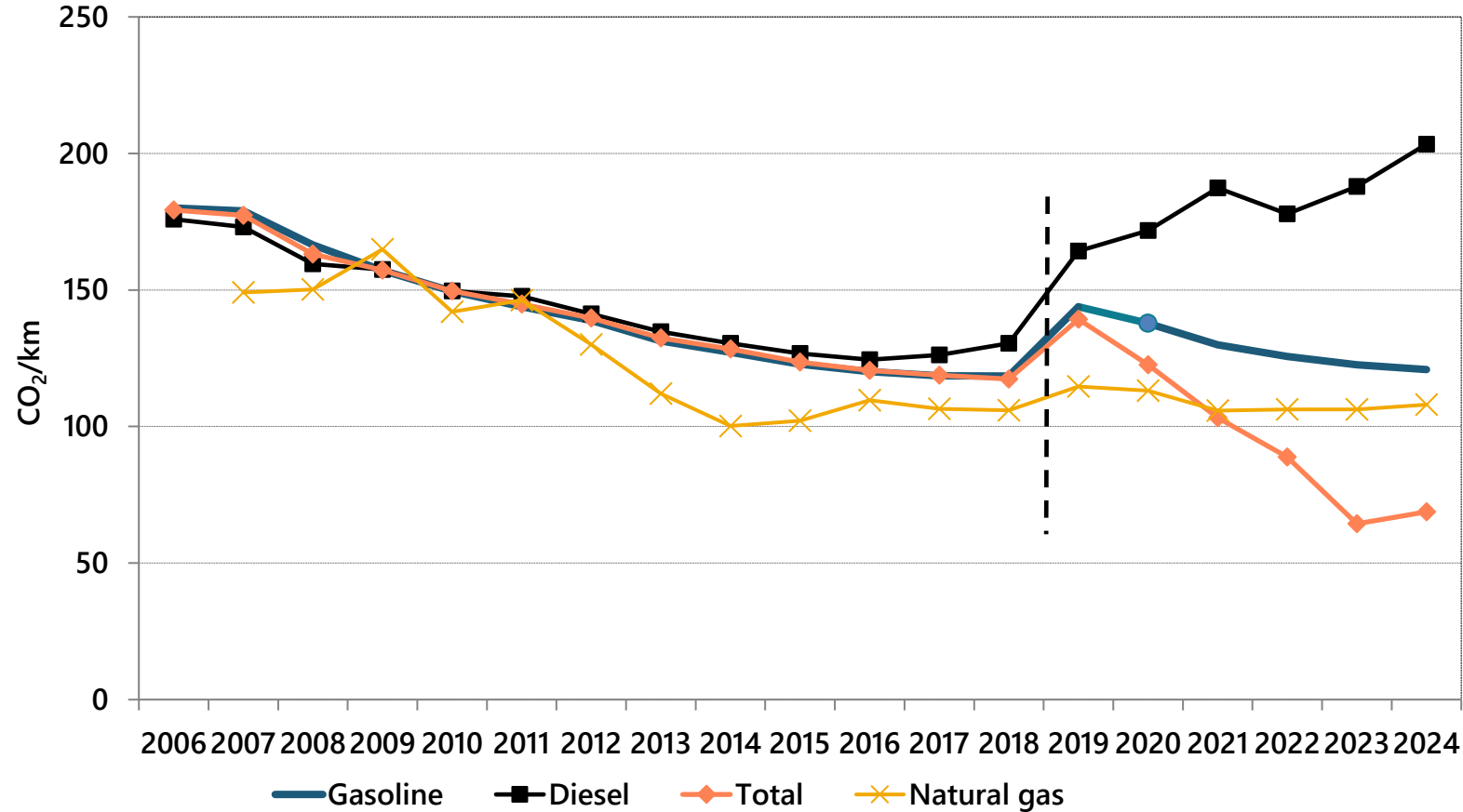
Source: VTT/LIPASTO database and Statistics Finland. Note! Break in data series of cars and buses.

Specific consumption of freight transport



Source: VTT/LIPASTO database and Statistics Finland. Note! Break in data series.

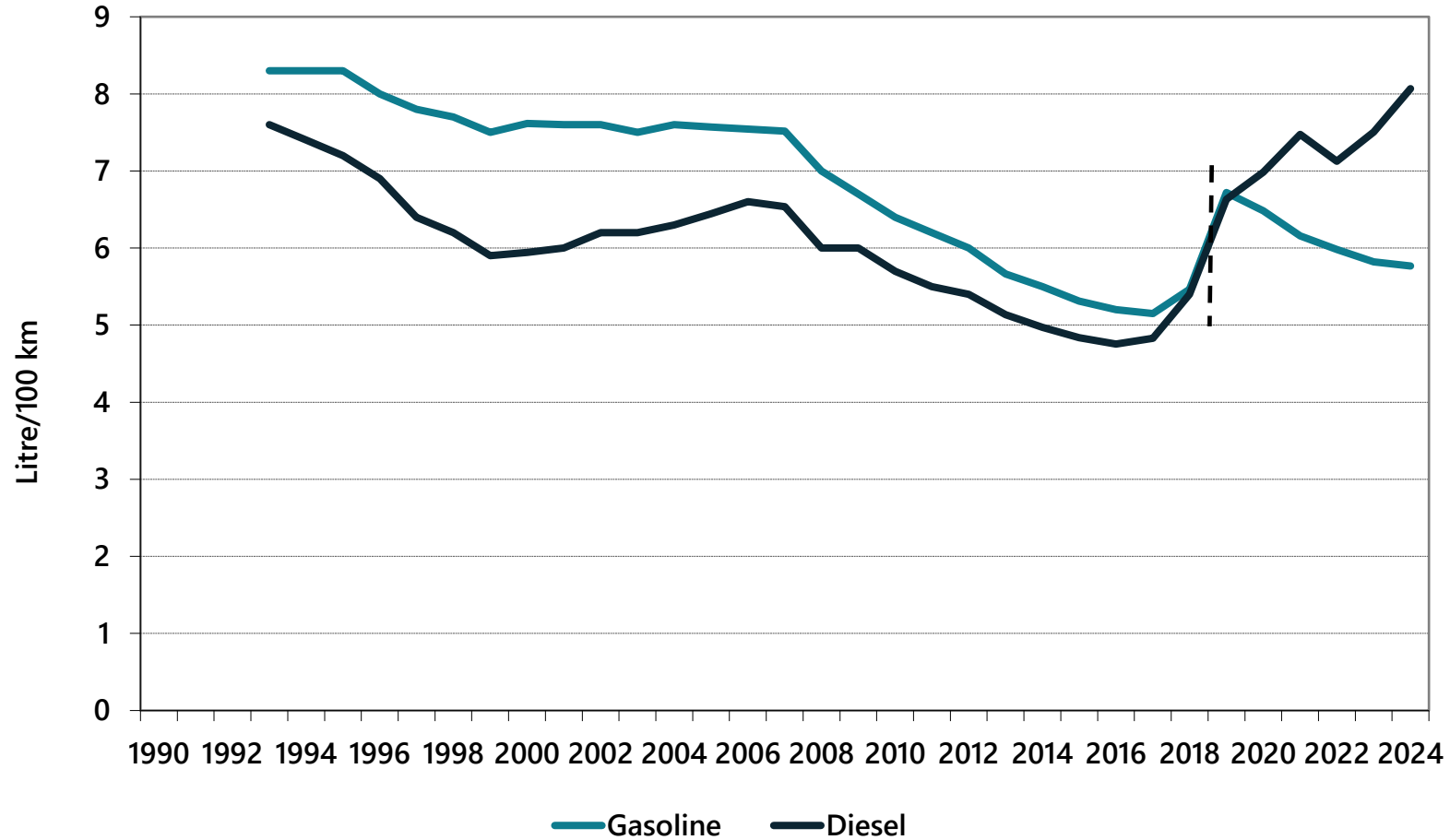
CO₂ emissions of new passenger cars



Source:
Traficom.

Note! New measurement protocol from 2019.
Total is an average which includes also electric vehicles.

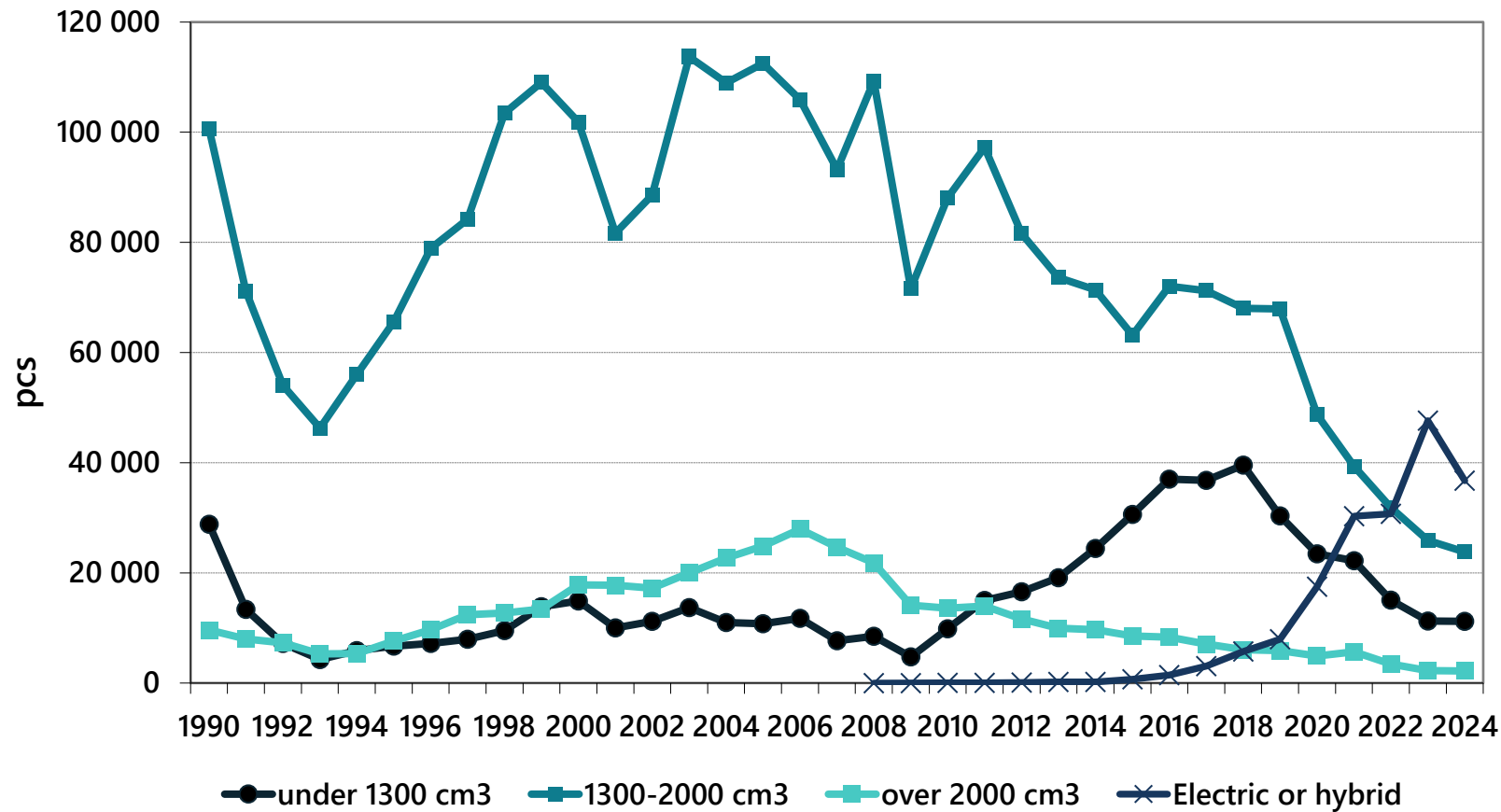
Average specific consumption of new cars



Sources: AKE, Tampere University, Trafi and Traficom. Note! New measurement protocol from 2018

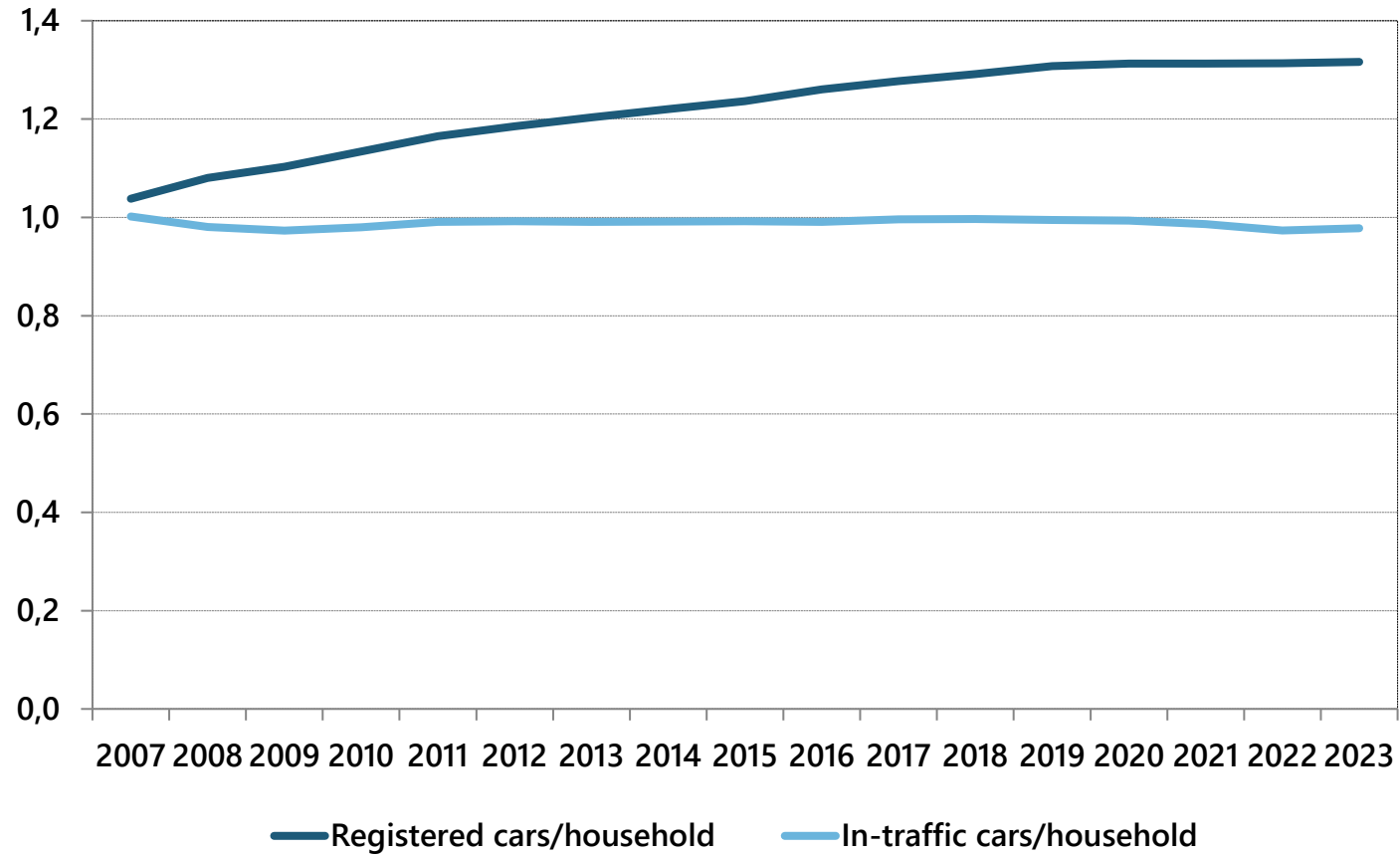
Registration of new cars

- by engine capacity of gasoline and diesel cars and the number of electric vehicles



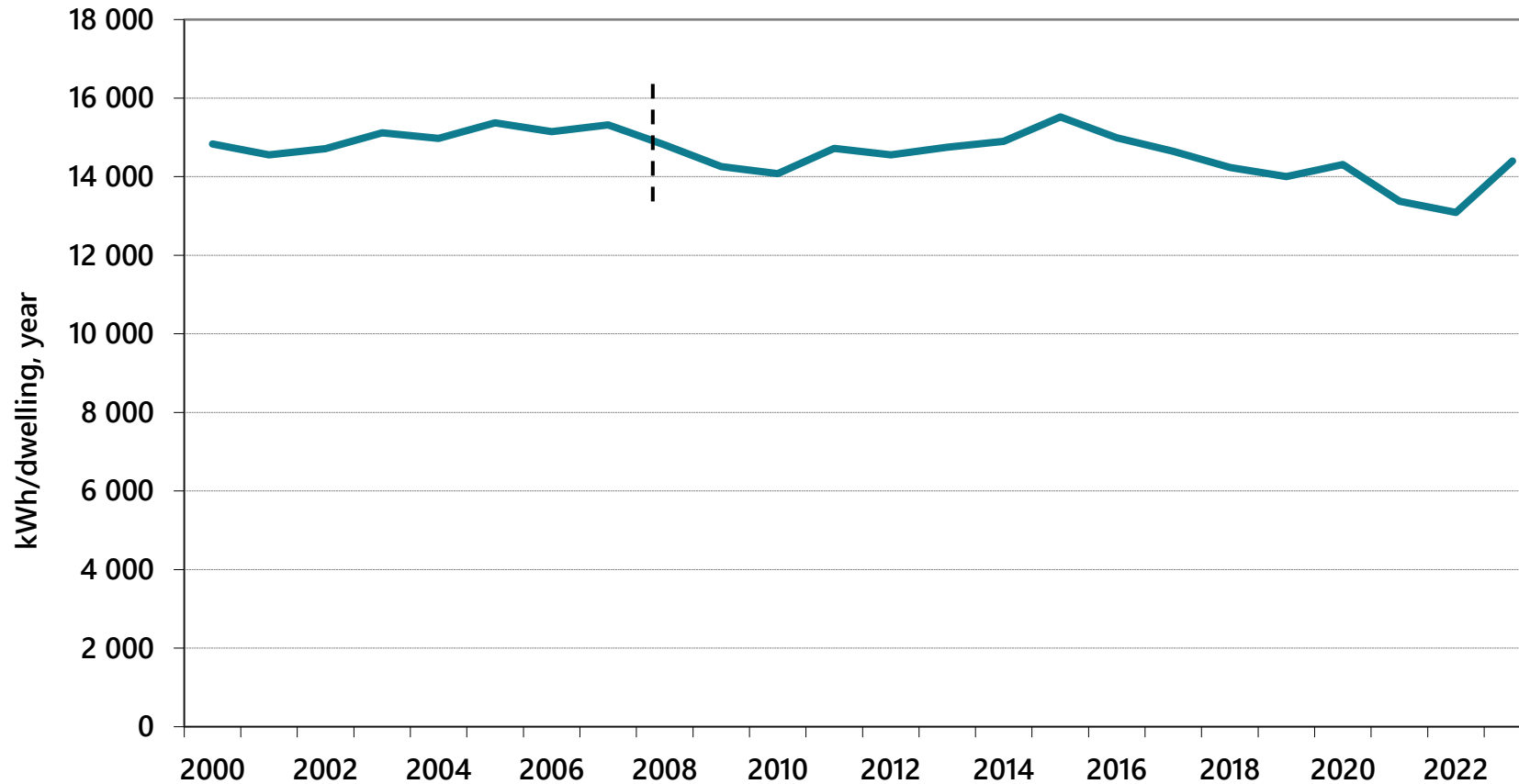
Source: The Information Centre for Automobile Sector, Trafi and Traficom.

Passenger cars per household



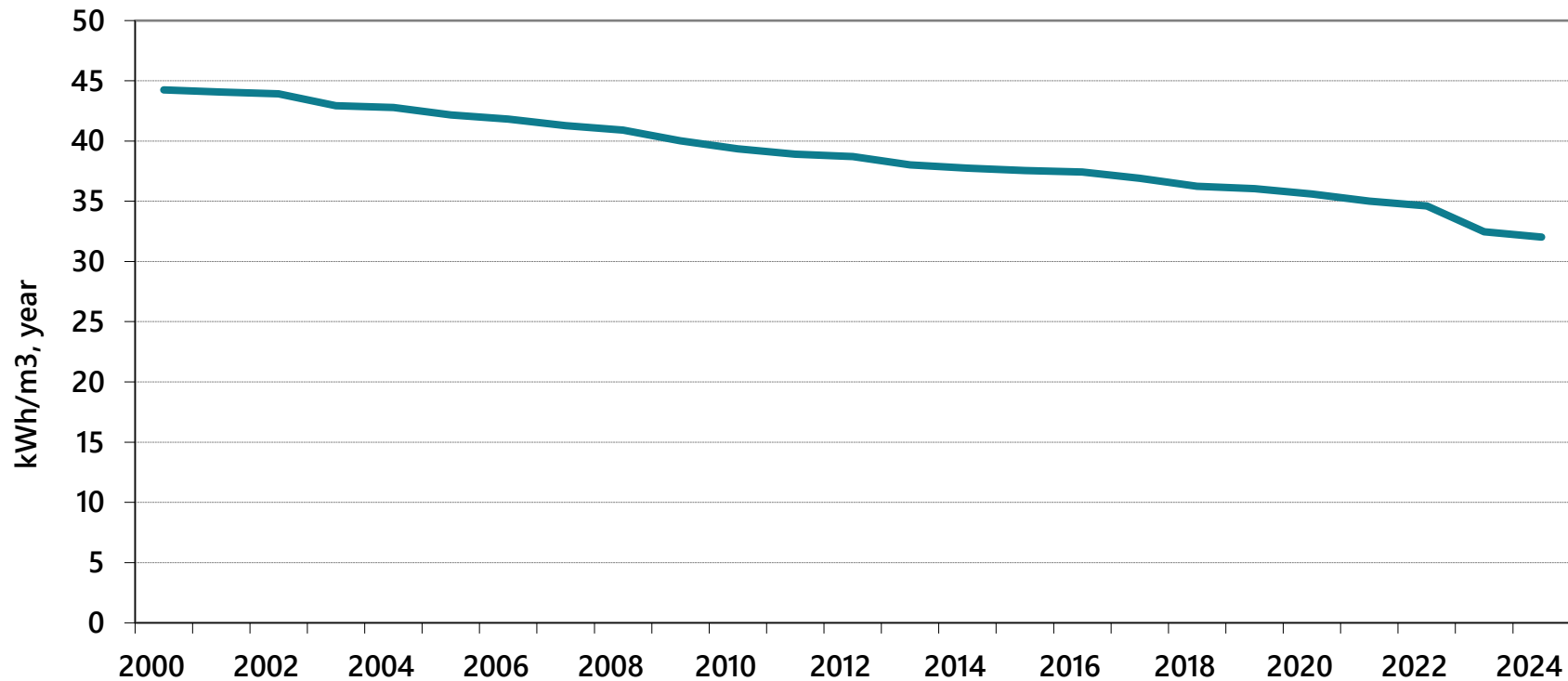
Sources: Traficom and Statistics Finland.

Normalized specific space heat consumption per permanently occupied dwelling



Sources: Odyssee database until 2007, and Statistics Finland 2008-

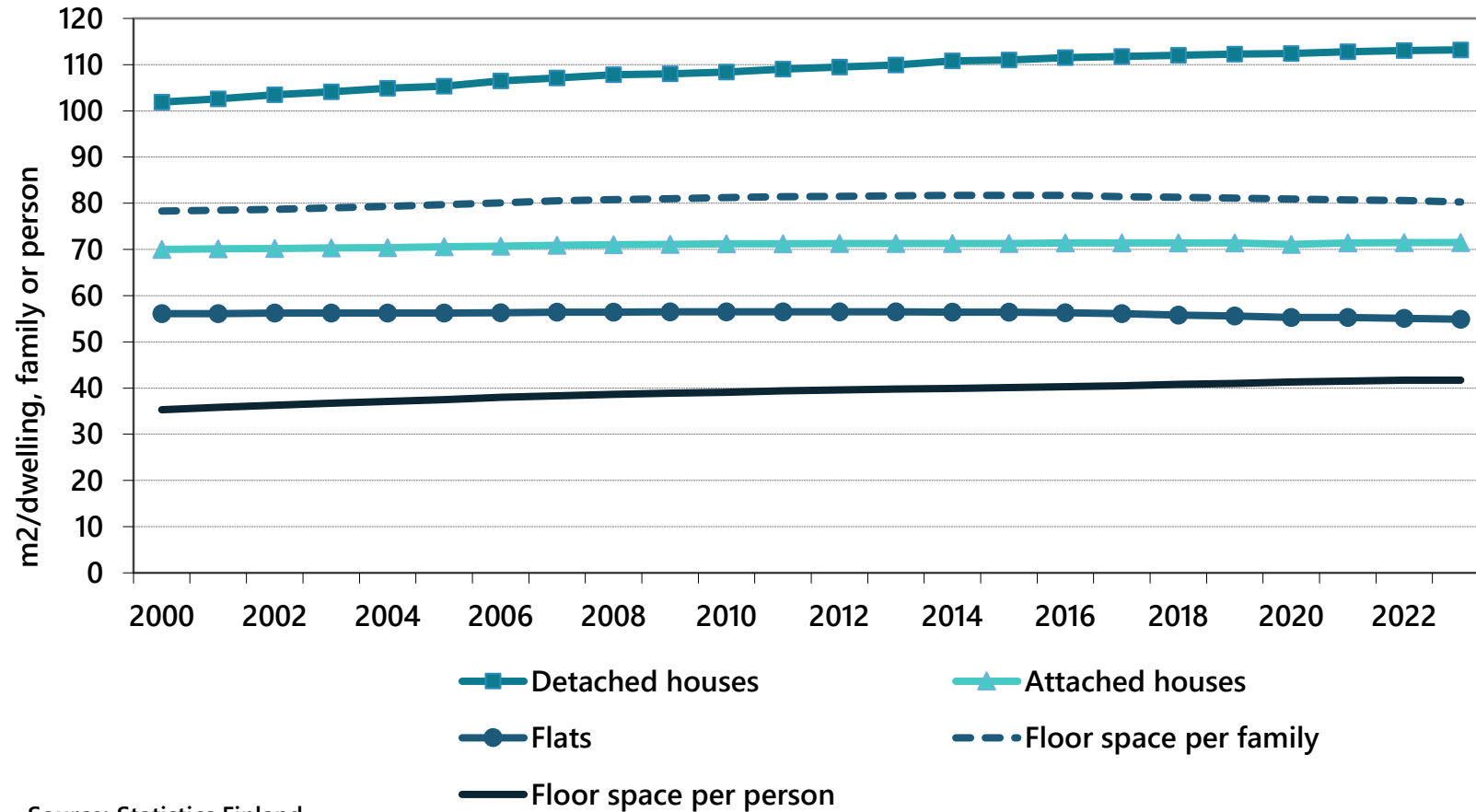
Normalized specific consumption of district heat in domestic and service sector buildings



Source: Finnish Energy Industries

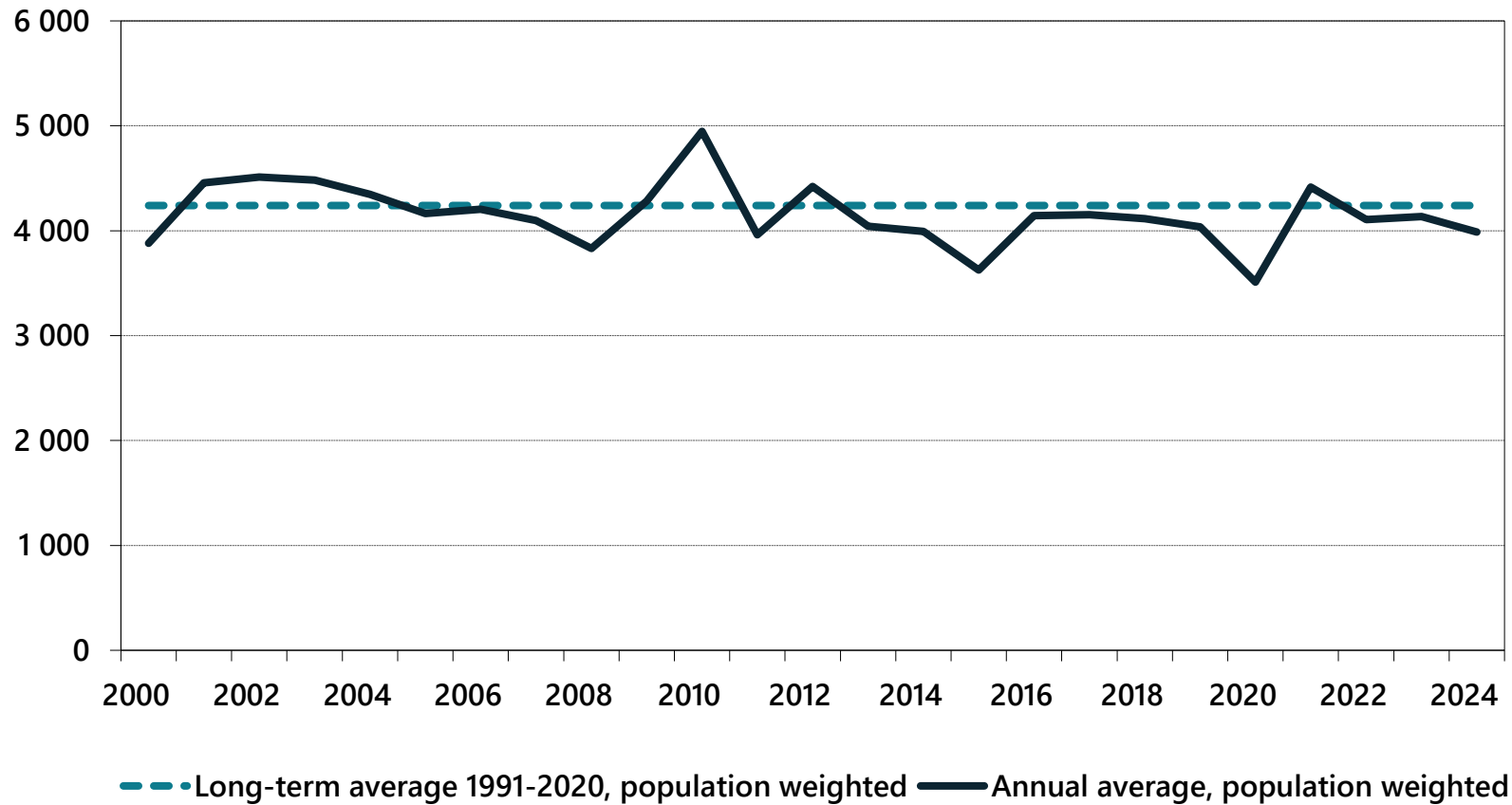
Note! Data calculated using reference period 1991-2020.

Average floor area by type of dwelling and occupancy rate of dwellings



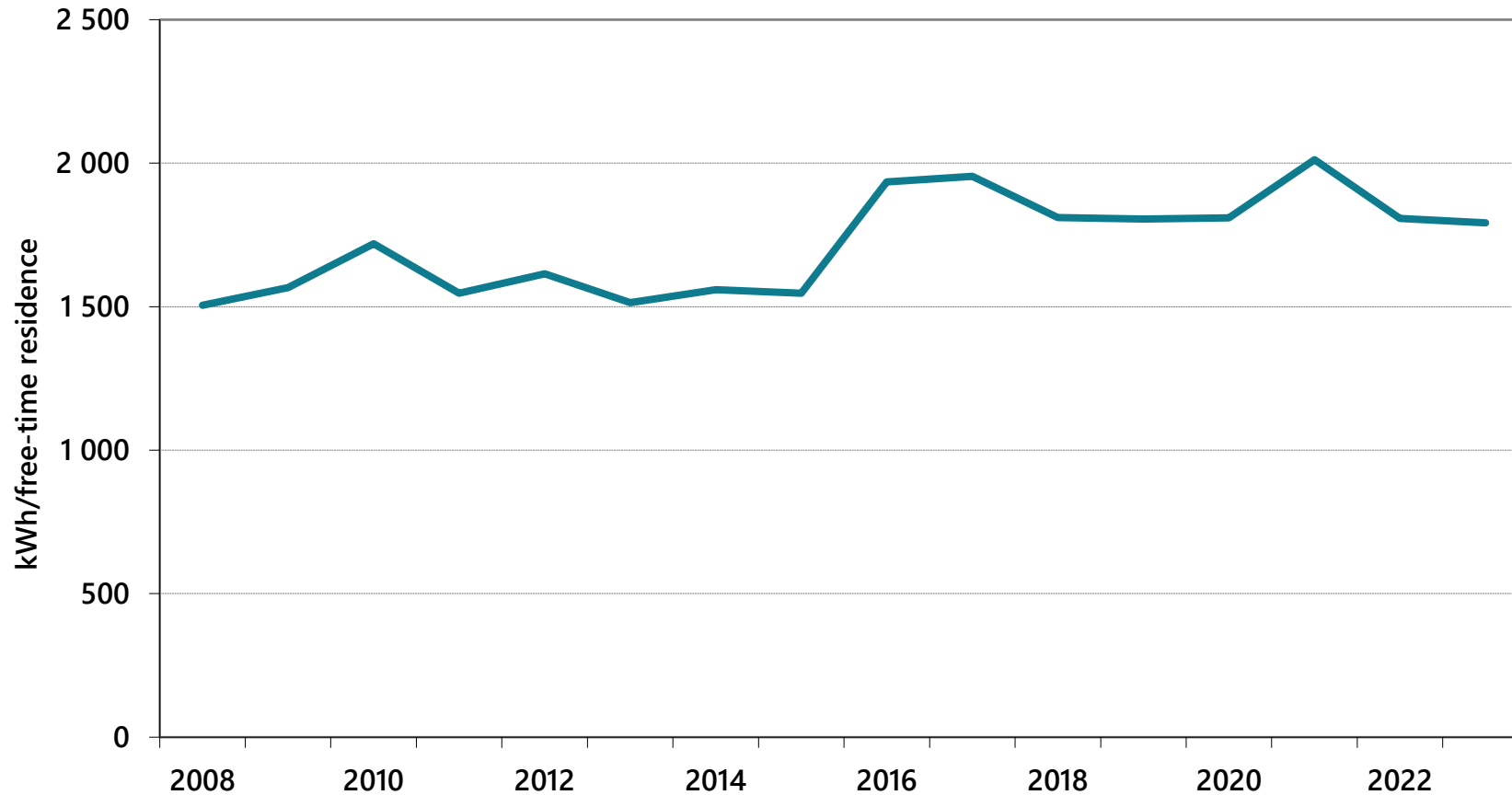
Source: Statistics Finland

Long term average degree days (4517) and annual averages in 1990–2024



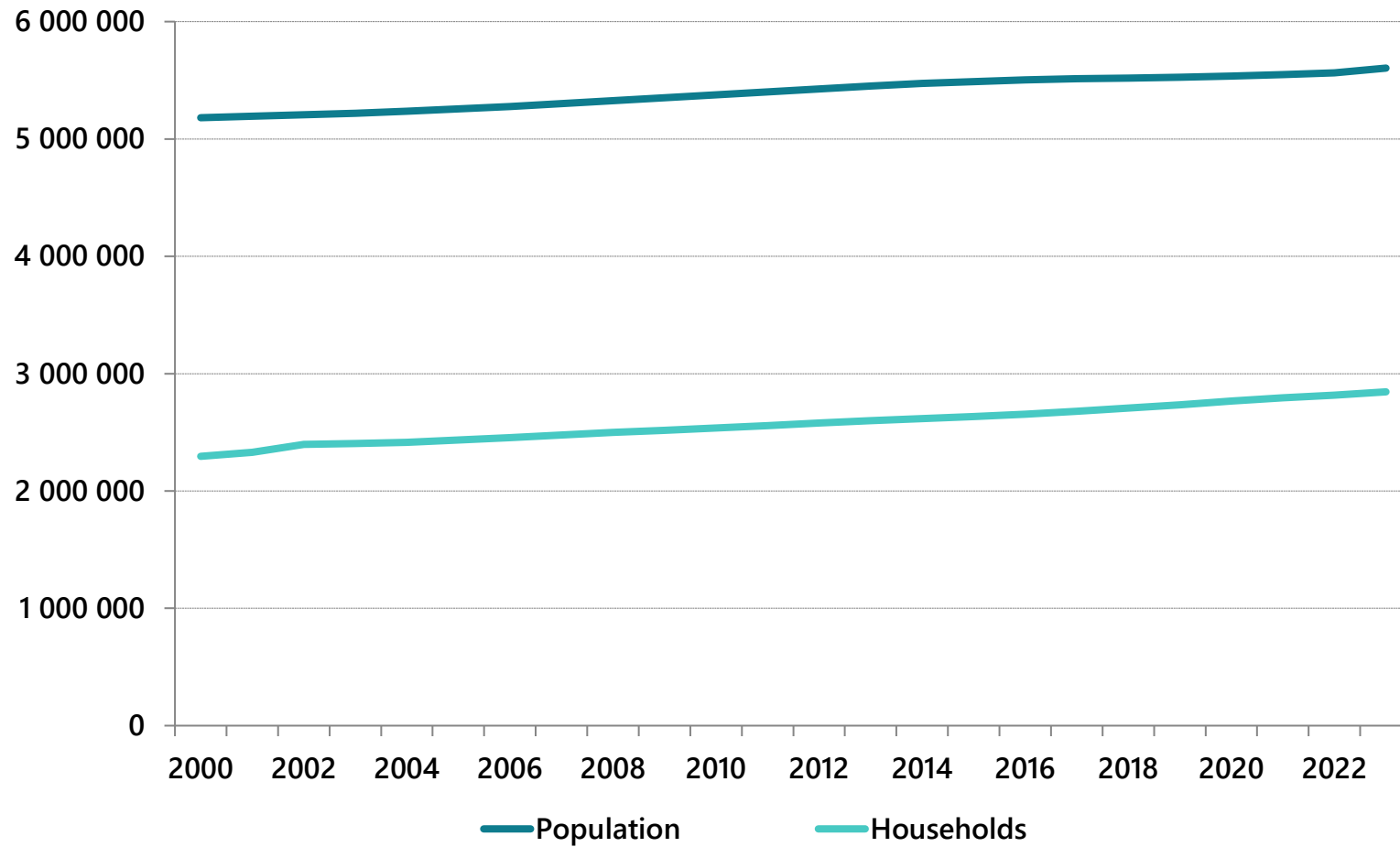
Source: Finnish Meteorological Institute and Statistics Finland

Electricity consumption per free-time residence



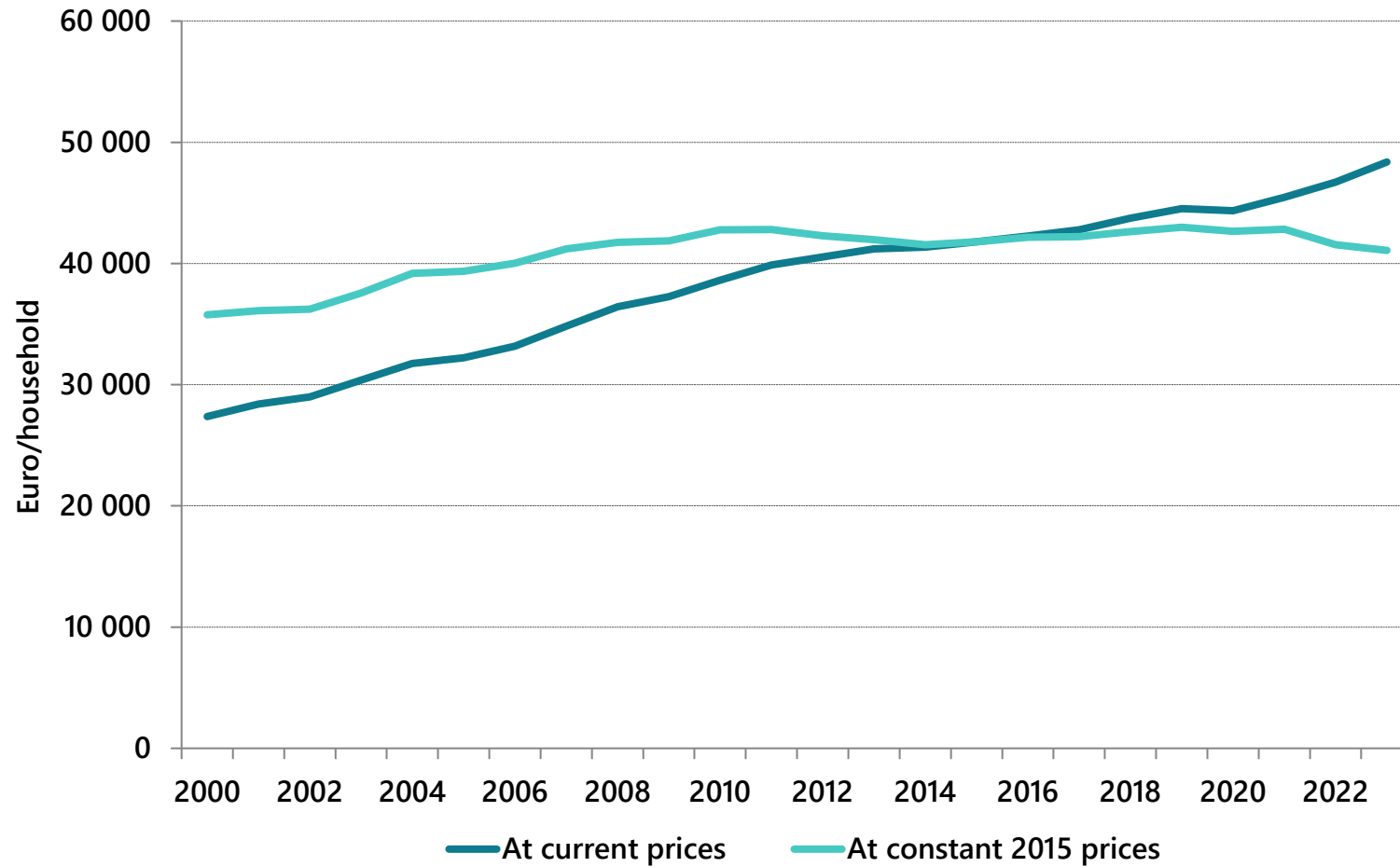
Source: Statistics Finland. Note! Due to a break in data series in 2007-2008, data is shown only starting in 2008.

Population and number of households



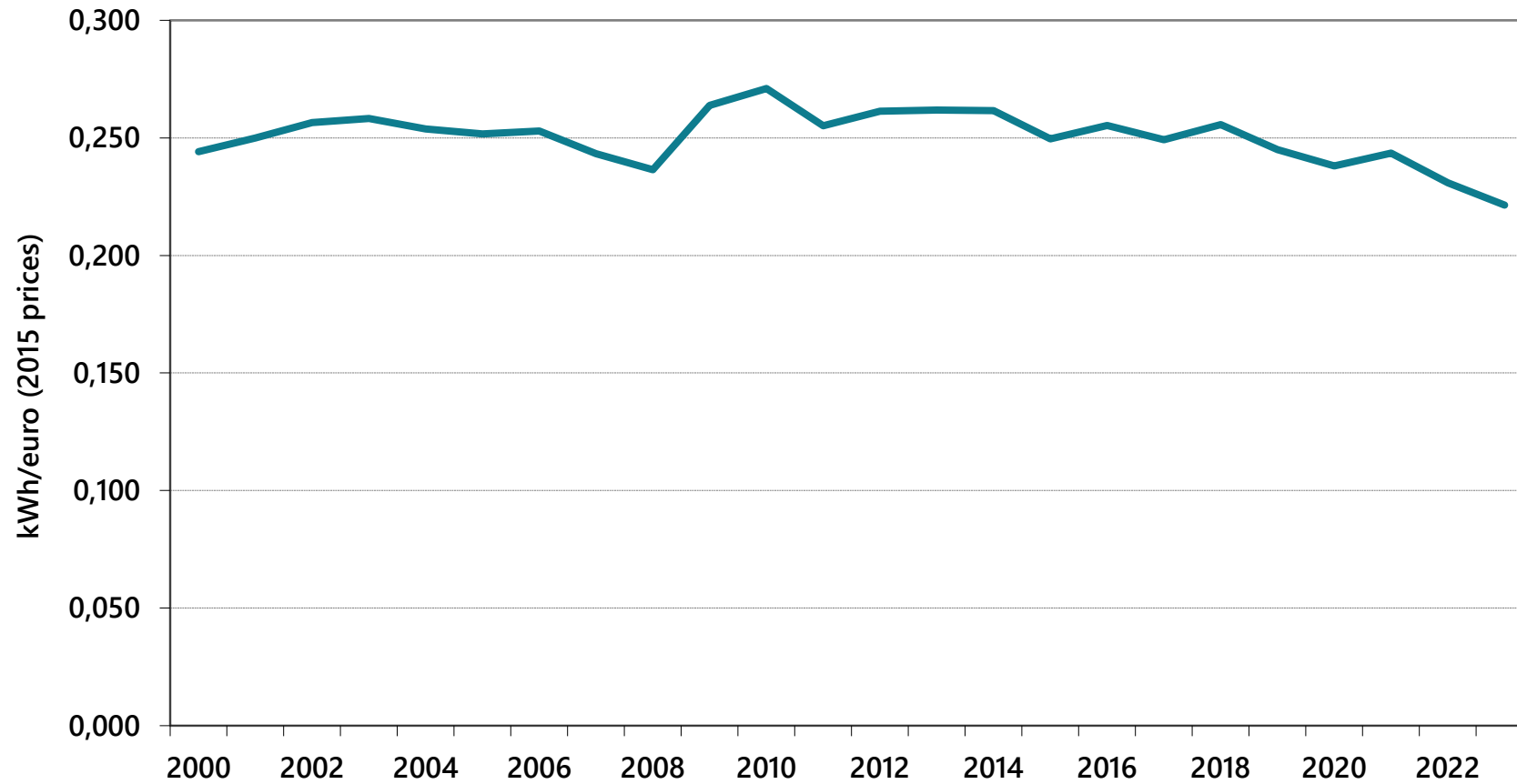
Source: Statistics Finland

Average household income



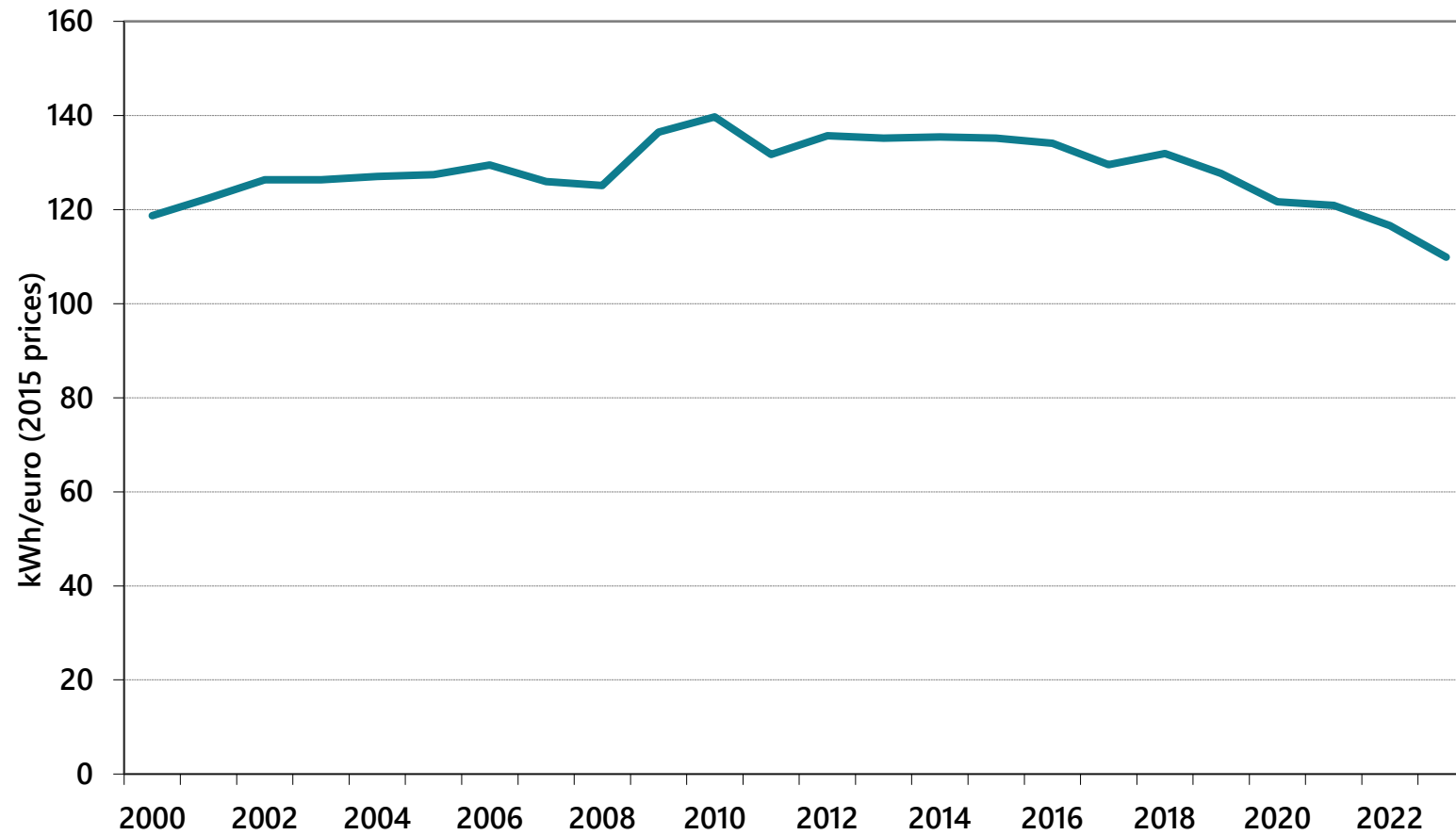
Source: Statistics Finland

Energy intensity in the services sector



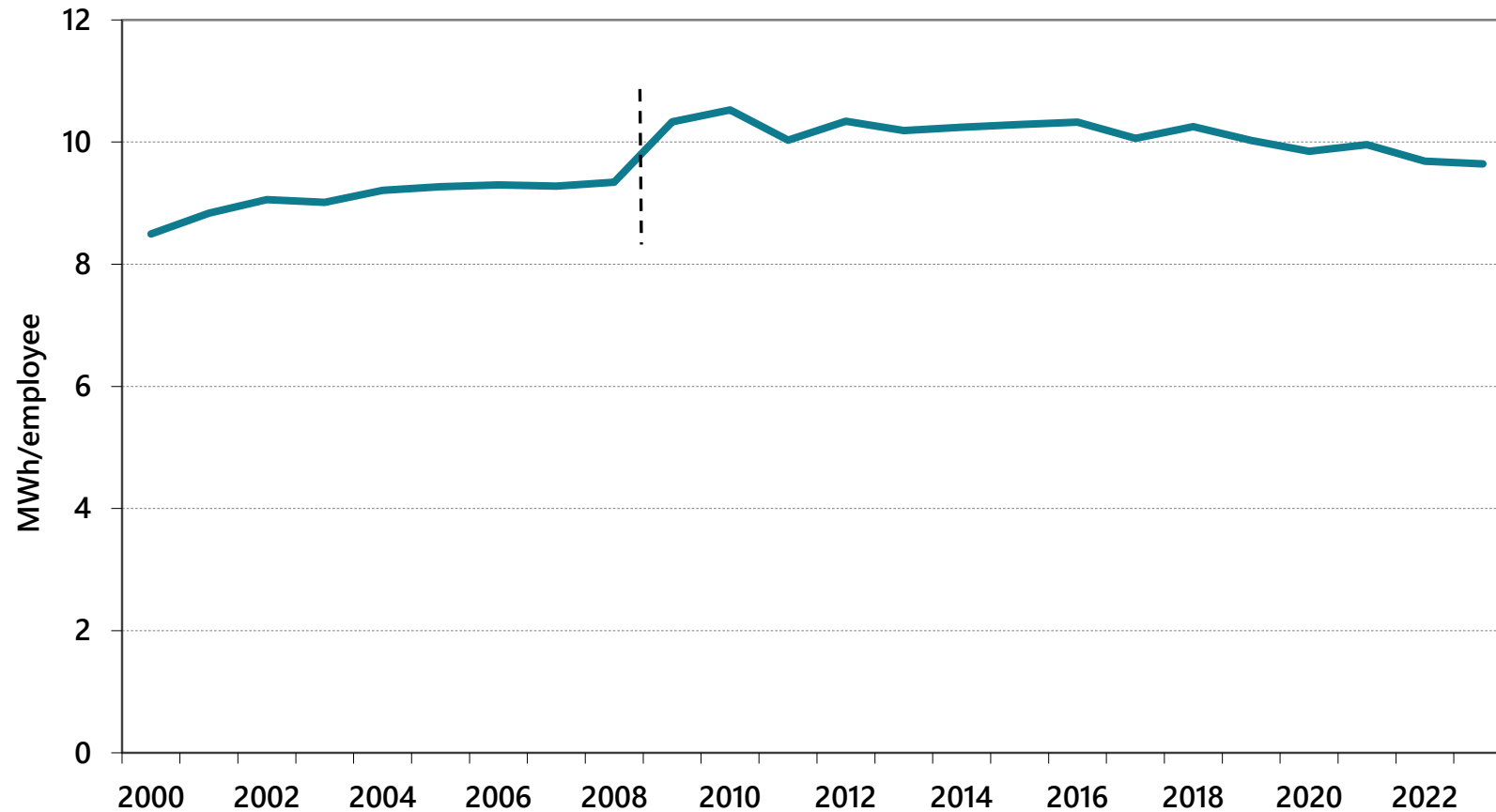
Source: Odyssee database

Electricity intensity in the services sector



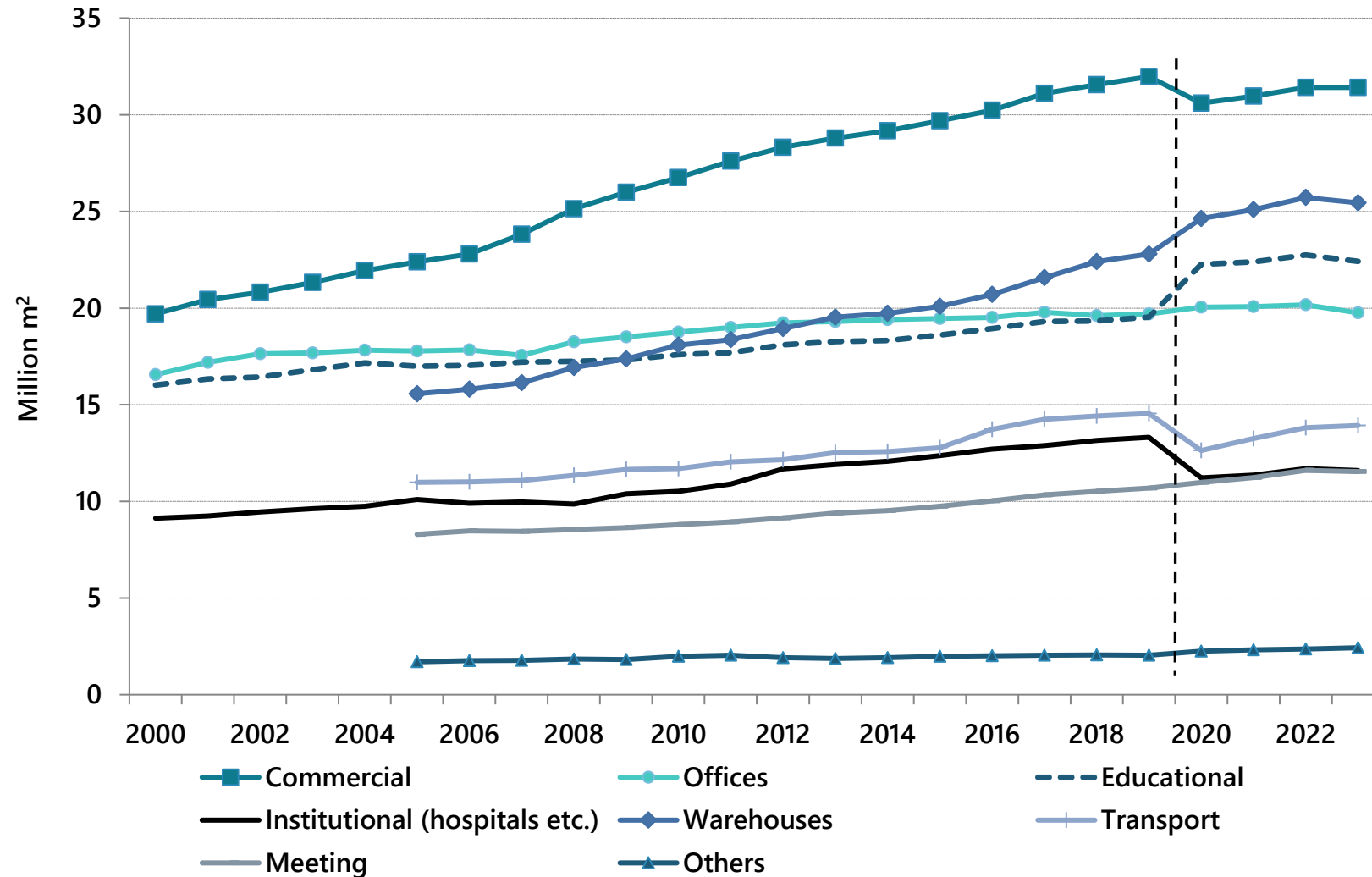
Source: Odyssee database

Electricity consumption per employee in the services sector



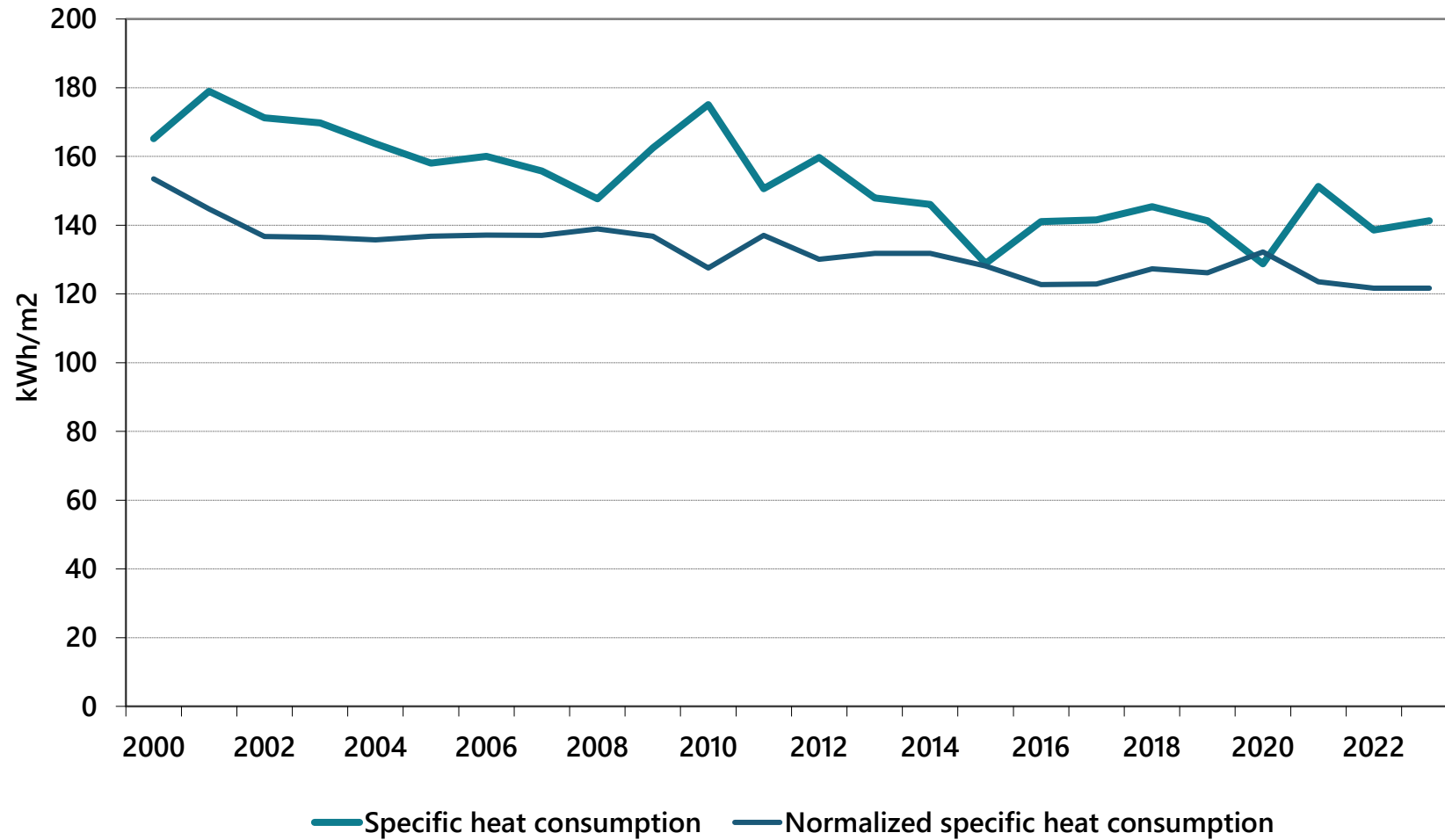
Source: Statistics Finland. Note! Break in data

Surface area of service sector buildings



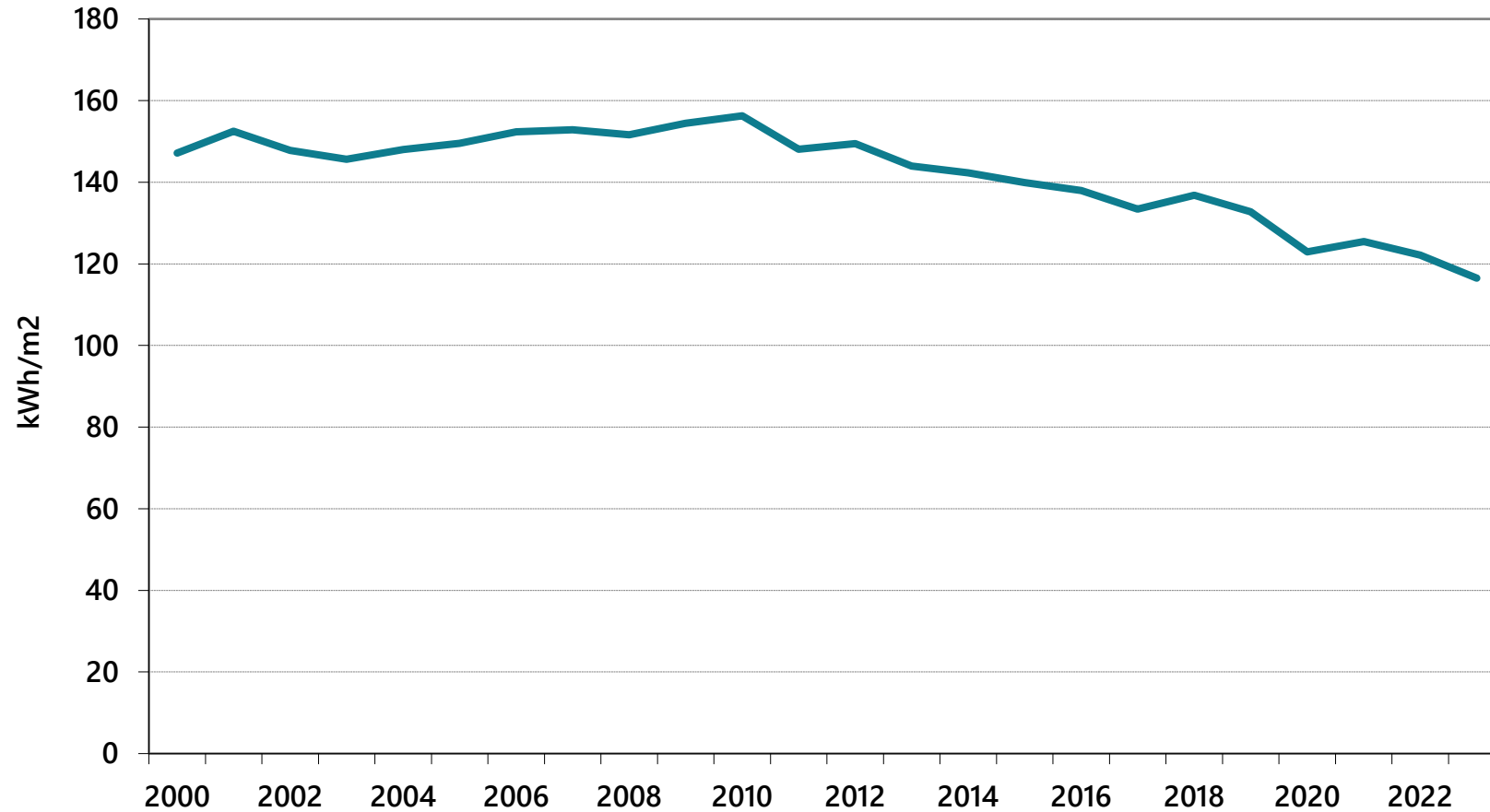
Source: Statistics Finland. Note! Breaks in data series.

Unit consumption of heat per m² in services

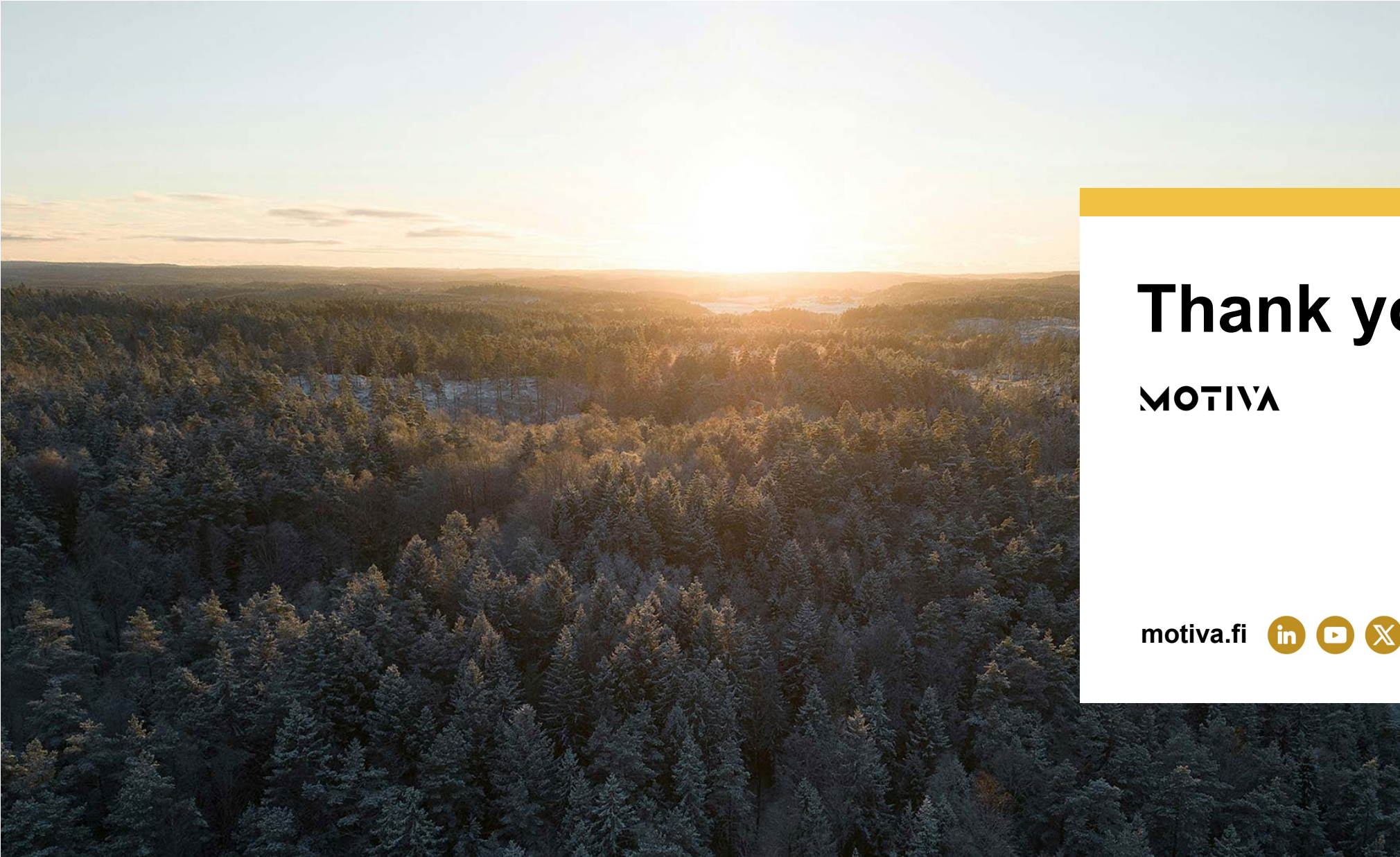


Source: Statistics Finland

Unit consumption of electricity per m² in services



Source: Odyssee database

An aerial photograph of a vast, dense forest of evergreen trees. The sun is low on the horizon, creating a warm, golden glow that illuminates the tops of the trees and the sky. The sky is a mix of light blue and orange. The forest extends to the horizon, with a small body of water visible in the distance.

Thank you!

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