

Cost of electrification pathways

Client

Fortum

The task:

Copenhagen Economics was commissioned by Fortum to **evaluate the socio-economic potential of electrification investments in Finland and Sweden** through 2040 and to recommend optimal market designs to facilitate the energy transition in these countries.

We **assessed investments in electrifying transportation, industrial processes, clean hydrogen production**, data centres, and CO₂-neutral electricity generation.

We found that **ambitious electrification could generate €178–300 billion in investments and create up to 160,000 high-productivity jobs** across both countries.

See more at:

<https://copenhageneconomics.com/publication/society-optimal-investment-framework/>

Why INTERSECT:

INTERSECT captures the full macroeconomic impact of climate and energy transitions by simulating how households, industries, and countries respond to changes in prices, incomes, and policy. Unlike sector-specific tools, **INTERSECT offers a holistic view of the economy**. It models entire value chains, from electricity and hydrogen production to their end uses, under varying decarbonisation targets.



Accumulated investments 2025-2040 in the delayed electrification scenario and additional investment generated to reach an ambitious decarbonisation scenario
EUR billion

