

# Energimyndigheten: Stort behov av elektriker och VVS-montörer

OPINION, VISA ALLA +

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Energimyndighetens nya rapport visar på akuta behov av arbetskraft inom installationsbranschen i takt med ökad elanvändning, nya elintensiva industrisatsningar och energieffektivisering.



## Pär Lundström

### Senior Policy Advisor

# The Swedish Installation Federation

We are an industry and employer organization with 4,200 member companies that ensure that functions such as water, electricity, heating, cooling, ventilation, alarms and fiber work in buildings and businesses.

The companies have about 63,000 employees.

The local engagement is secured by eleven  
Regional committees

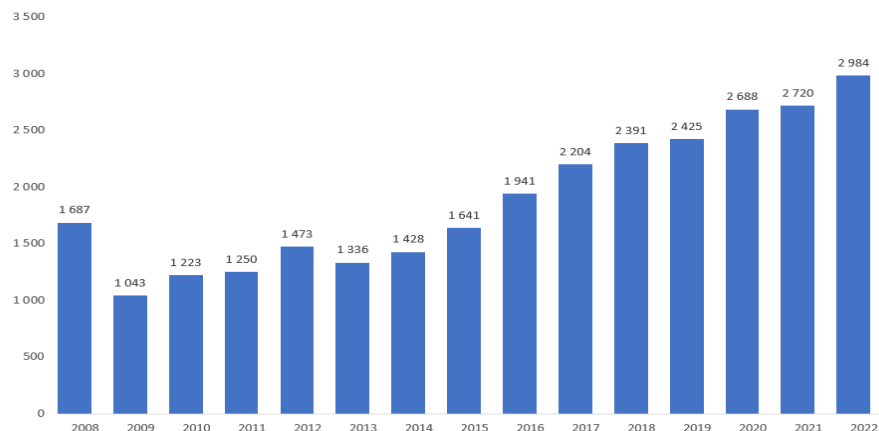
# Becoming an Electrician in the Nordics



# Different paths and volume

- Sweden roughly 1.400 employed from school, adults ca 30 percent
- Norway roughly 5.800 employed apprentices, year 3 and 4
- Denmark roughly 3.000 apprentices annually

## Indgåede uddannelsesaftaler på elektrikeruddannelsen



- **109 pct. flere** uddannelsesaftaler på elektrikeruddannelsen fra 2014-2022.
- **9,7 pct. flere** uddannelsesaftaler i 2022 i forhold til 2021.
- **5338** er i gang med en elektriker-uddannelse i december 2022.

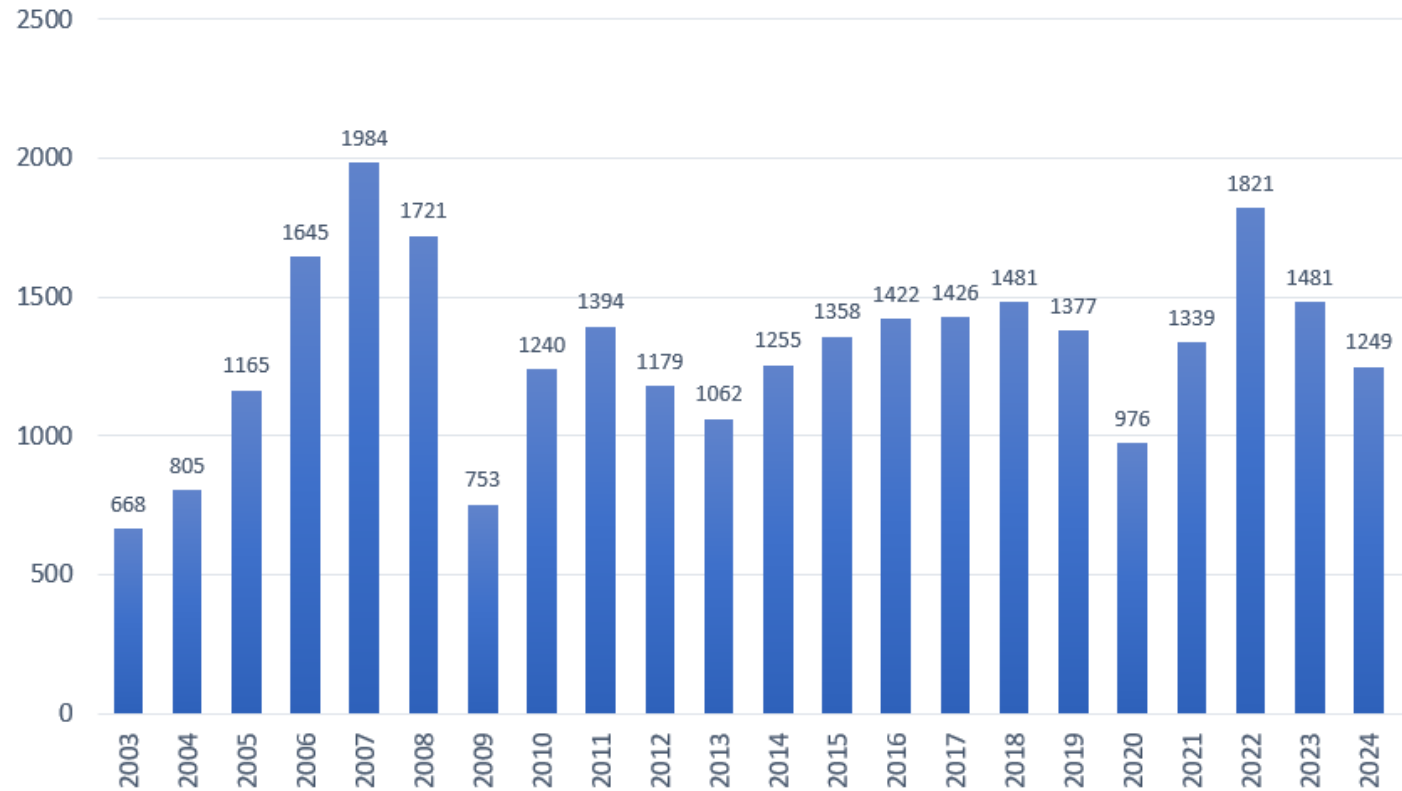
Kilde: Uddannelsesstatistik.dk samt egne beregninger.  
Note: opgjort ultimo 2022

# Different paths to the same qualification

- **Vocational education is equivalent in the Nordic countries**
- **If you have a professional license you have an approved apprenticeship and are automatically eligible to apply for a job as an electrician in the Nordic countries and large parts of Europe.**

# The Swedish instability

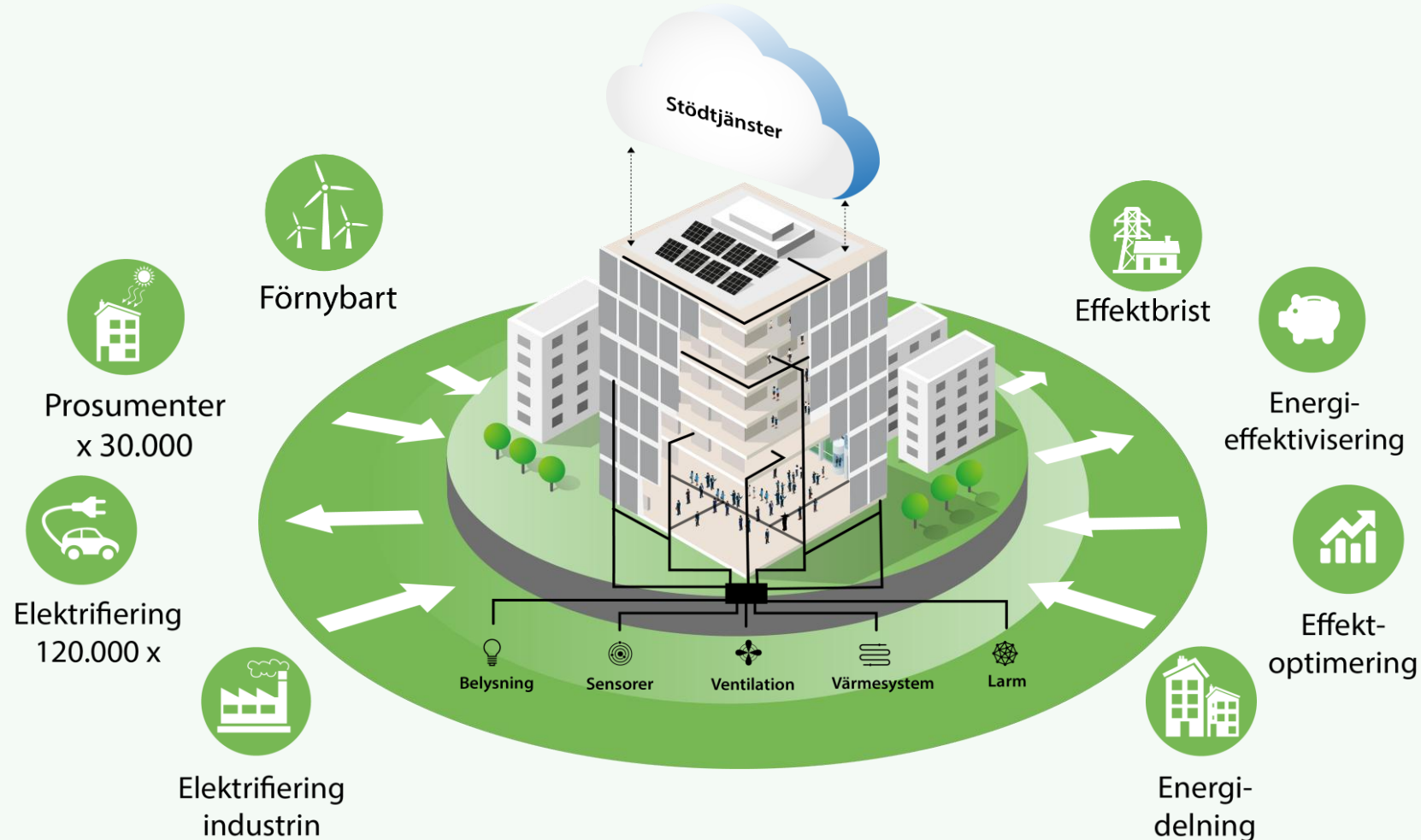
## Anställda lärlingar helår 2003-2024



# Different paths in Sweden

- Three years in Upper Secondary School + 1.600 hours apprentice
- Adult 1,5 year + 1.600 hours apprentice
- Practical exam according to ETG Sverige – no apprentice
- Accelerated learning, 35 weeks with practical exam ETG
- Validation – practical test of the ability to perform normal tasks, 3 days

# The future for the installer of technology – the property as part of the energy system





# Arctic Centre of Energy – Three Programs



## eMobility

Pioneering electrified transport solutions for both people and goods on land and in the air.



## Connected Cities

Enabling smart, connected urban and rural environments with interoperable technologies.



## Circular Industries

Advances processes and circular flows for components essential to an electrified society.



Arctic  
Center of  
Energy

# Installer's everyday life - EU policy (CID)

## NZIA – Technologier

- SCOPE
- ‘net-zero technologies’ means  
renewable energy technologies;  
electricity and heat storage technologies;  
heat pumps;  
grid technologies;  
renewable fuels of non-biological origin technologies; sustainable  
alternative fuels technologies;  
electrolysers and fuel cells;  
advanced technologies to produce energy from nuclear processes  
with minimal waste from the fuel cycle,  
small modular reactors,  
and related best-in-class fuels;  
carbon capture, utilisation, and storage technologies;  
and energy-system related energy efficiency technologies. [...]

STRATEGIC NET-ZERO TECHNOLOGIES

1.	Solar photovoltaic and solar thermal technologies
2.	Onshore wind and offshore renewable technologies
3.	Battery/storage technologies
4.	Heat pumps and geothermal energy technologies
5.	Electrolysers and fuel cells
6.	Sustainable biogas/biomethane technologies
7.	Carbon Capture and storage (CCS) technologies
8.	Grid technologies