

Information to consumers – the Swedish example

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Swedish energy agency

EU- Commission workshop

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Swedish energy agency

- Commissioned by the government
- About 350 employees
- Different departments: Analysis, Research and innovation, Energy efficiency, Renewable energy and Climate
- Several energy efficiency programmes towards SME are run through The European regional development fund

EU- commission

Swedish energy agency

EU-directives:
EPBD, Eneff,
Renewable energy,
Ecodesign

Regional energy agencies

Energy
consumer

Energy lift

Certified installer

Municipal energy and climate advisors

EU-regulation:
Energy labelling

Hallo Consumer!

Energy labelling

Municipal energy and climate consulting

Energy and climate advisors in 284 of 290 municipalities (since 1998)

Target groups: Households, organisations and companies (SME)

Advisors should deliver impartial energy advice of local and regional basis, commercially independent and free of charge

Education provided by Swedish energy agency



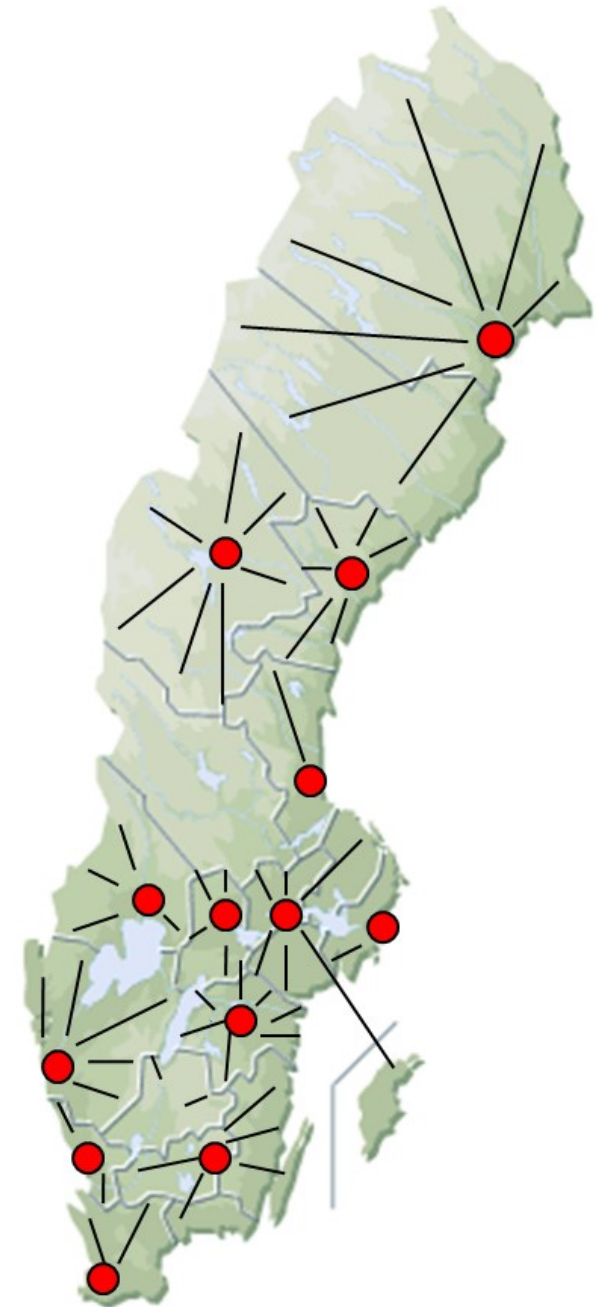
Regional agencies

All energy and climate advisors are organised in a network of 15 regional energy agencies

Both the regional energy agencies and the local energy and climate advisors partly financed by the Swedish energy agency

National funding about 12,5 Million Euro

Part in EPBD

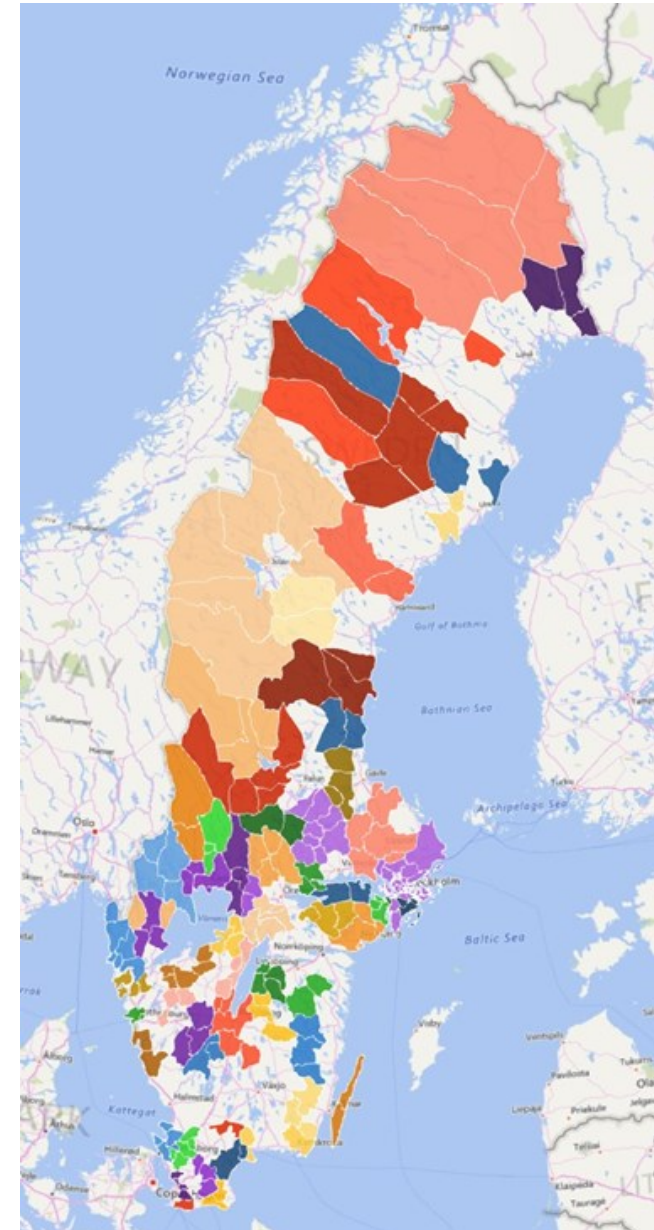


Framework of the local energy and climate advisors

75 % of the municipalities are organised in cooperation with communes nearby

New regulation from 2016 to develop the consulting with better common methods, national achievements or campaigns and better monitoring to obtain higher and more consistent quality

At least 50 % of advisors engagement must represent work related to this errand





Governmental mandate

- Concerning nearly-zero energy buildings in cooperation with "Boverket" (Swedish agency for building and planning)
- EPBD – Energy Performance of Buildings Directive (EU 2010)
- Aiming to sustainable and resource effective energy supply in 2050
- Measurement and demonstration of new low-energy buildings
- Skills enhancing efforts (education program) for nearly-zero energy buildings

This is the Energy Codend

- an interactive web-based education in low-energy buildings

Target groups

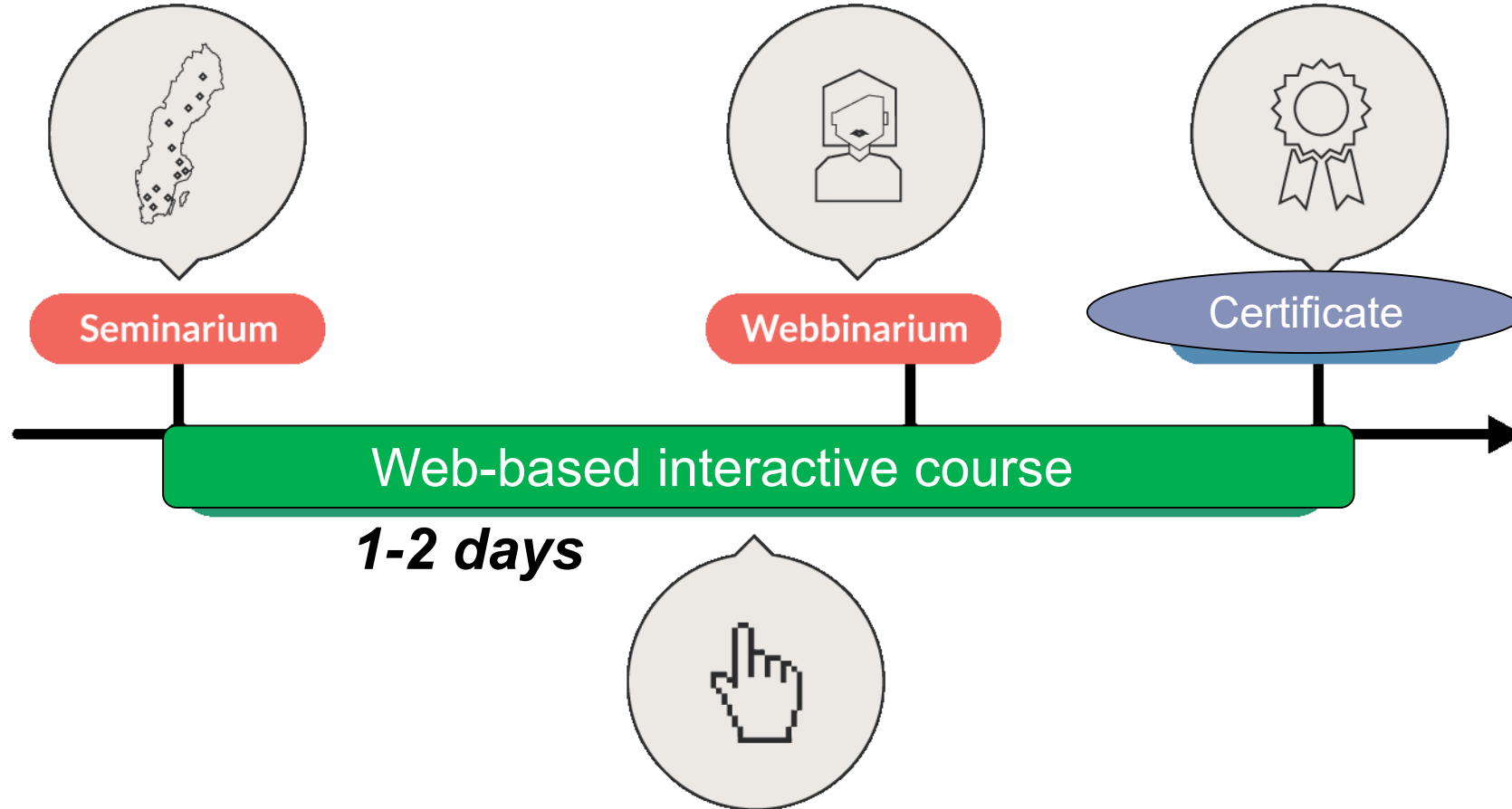


Clients, engineers, architects, construction project managers, technical managers and EKR



The Energy Codend raises your basic competence in low energy buildings. You also get an insight into other roles than your own in the construction process.

Education program The Energy Codend



The education is free of charge

Ten training parts



1

Environmental objectives and driving forces

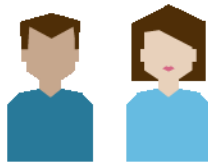
What is a low-energy building?
Why do we build low-energy buildings?



2

System boundaries

What system limits are available and how are they used?



3

Roles and responsibilities in the construction process

How can overall vision and quality assurance be created in the construction process?



4

Economic bases for low-energy buildings

Different economic methods
New construction and remodeling
Real Estate Valuation



5

Planning of low-energy buildings

Building energy balance
Planning of new buildings
Energy Renovation
Energy Simulation

Ten training parts



6

Moisture theory

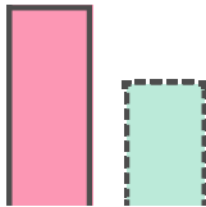
How can we minimize the risk of moisture damage?



7

Examples of technology and good examples of low-energy buildings

New technology solutions
Good examples



8

Examples of working methods for energy efficiency

BELOK Total Methodology
BeBo method



9

Measurement and monitoring of energy performance

Follow-up of energy performance and energy-efficient management



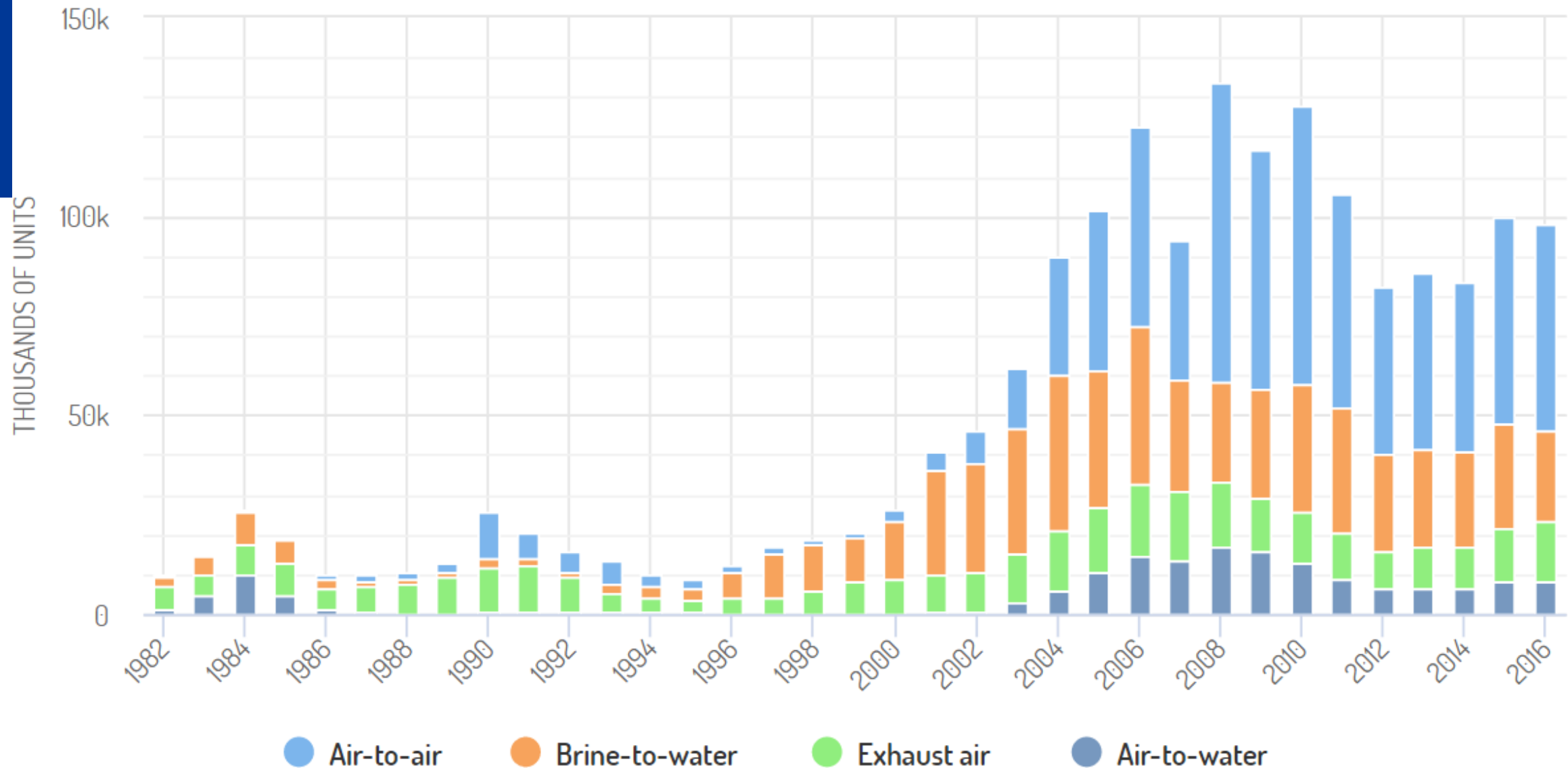
10

User Impact

How can users be involved?

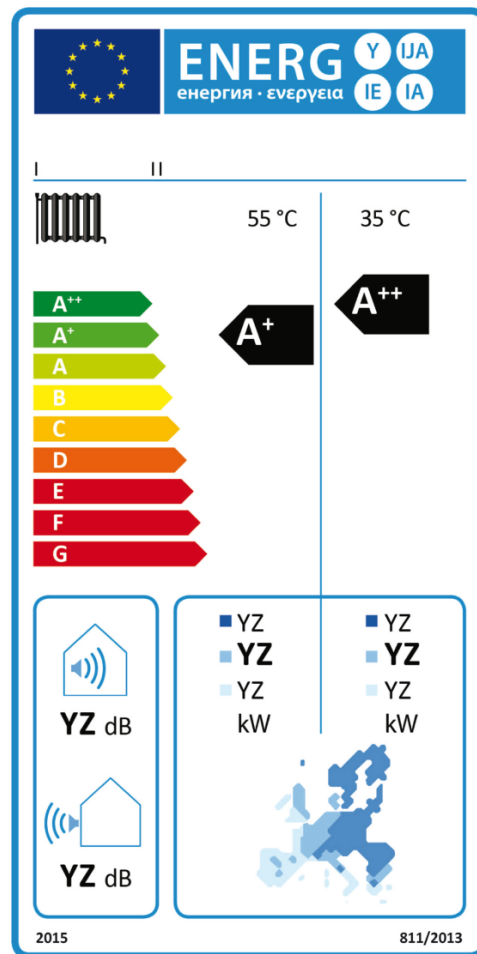
HEAT PUMP SALES IN SWEDEN 1982-2016

Source: Swedish Refrigeration & Heat Pump Association

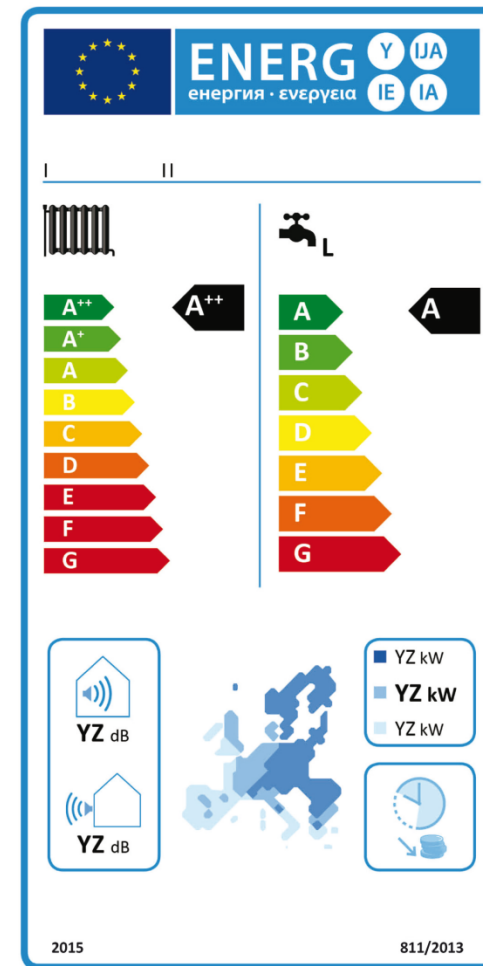


Energy labelling for heat pumps - Water-borne heat

Heat
High and low
temperature



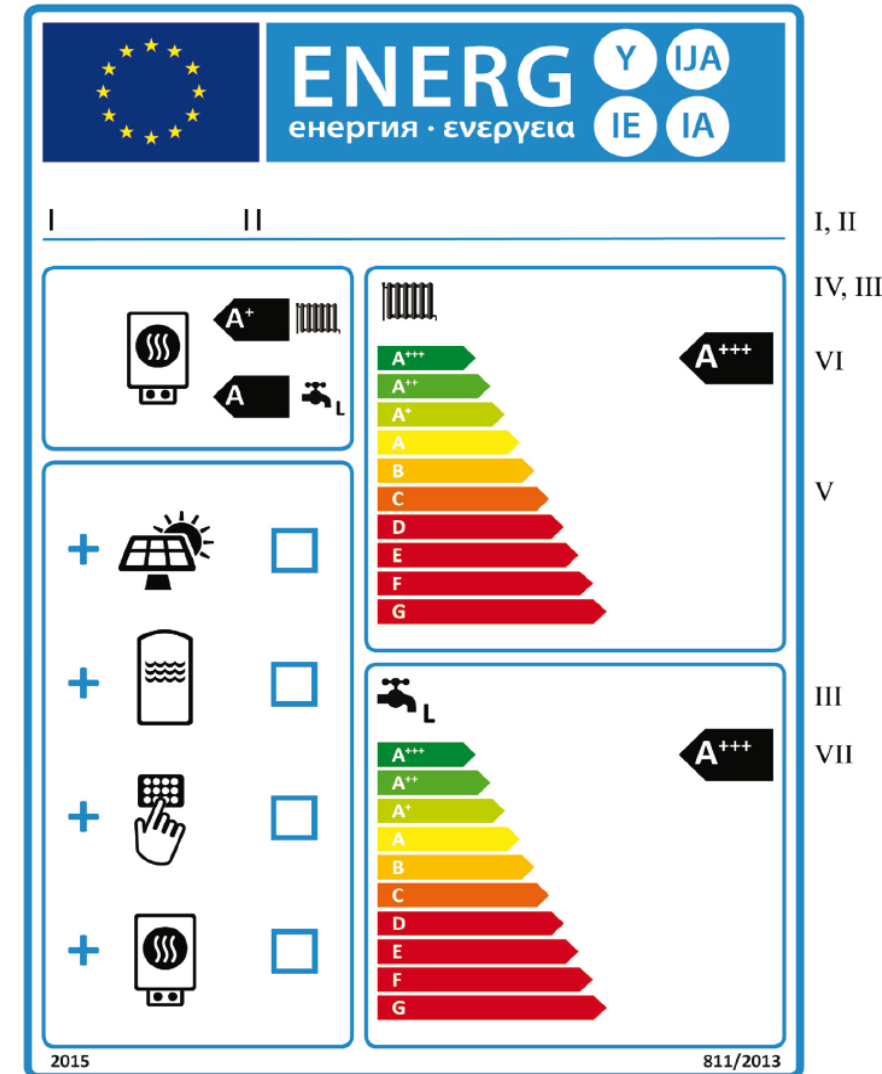
Heat and
tap water



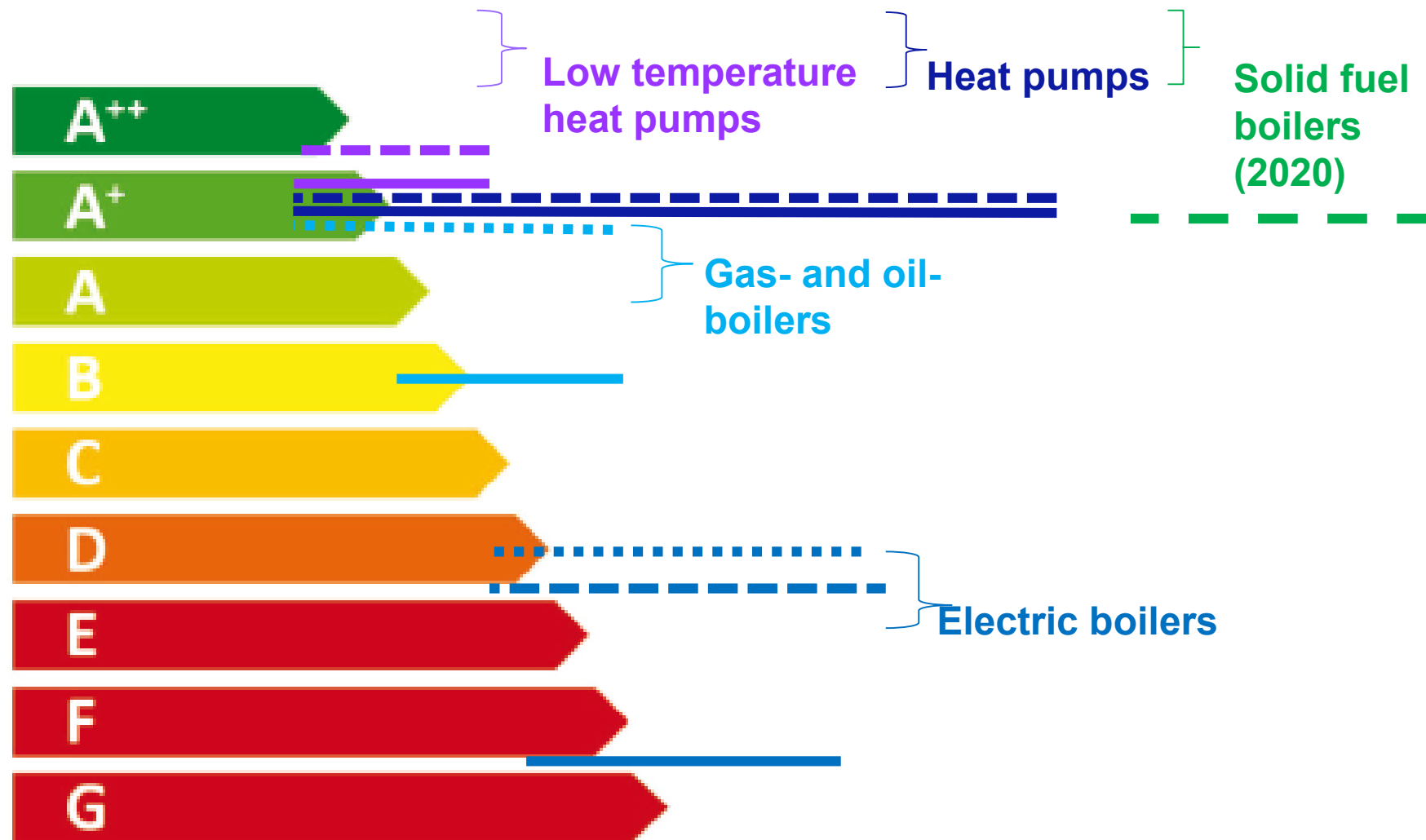
Energy labelling for energy systems

(boiler, heat pump, temperature regulator and solar heating equipment)

- A new role for retailers and installers
- Applies to combinations of boiler / heat pump and temperature control and / or solar heating equipment
- Shows energy efficiency for a combination of products
- Also available for the combination of water heater + solar heating



Energy classes for room heating 2015- 2019



Certified installers for heat pumps



- Also for solarpanels (photovoltaics and solar heating) and bioenergy installation
- Certification is voluntary
- Higher competence of installers
- Improved trademark
- Consumers/customers get better confidence for installer
- Verified by governmental accreditor



HALLÅ KONSUMENT!

- National information service for consumer issues
- Coordinated by the Swedish consumer agency
- Advice on energy saving and sustainability
- Link to municipal energy and climate advisors

Thank you!

