



Ministry of the Interior and
Kingdom Relations

Programme for neighbourhoods free of natural gas

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Dutch building stock

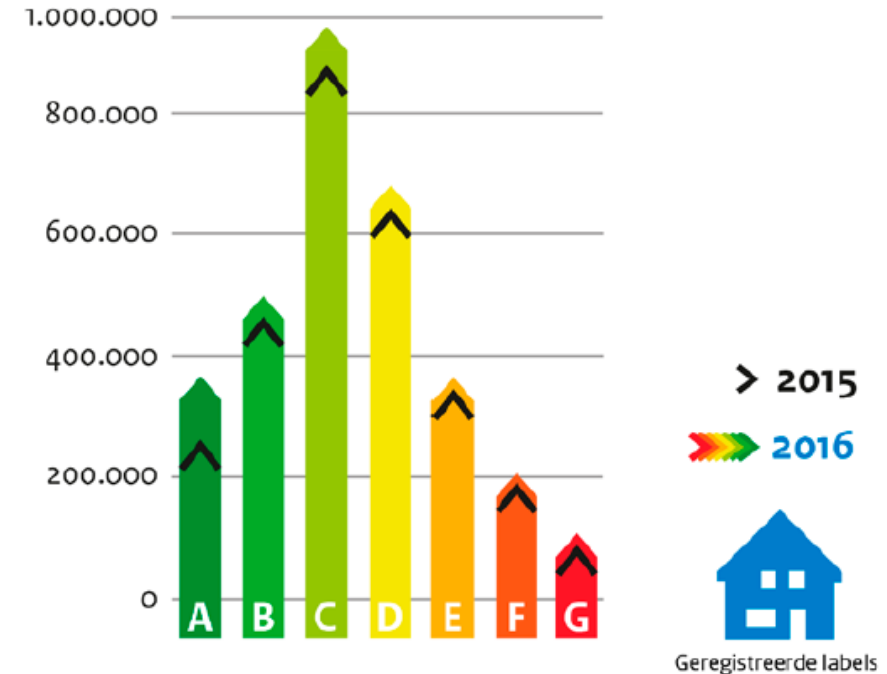
- In total 8.8 million buildings
- Approximately 1.6 million buildings before 1940
- Enormous variety in energy performance...





Energy use in built environment

- > Dependence on natural gas and boiler heating systems
 - 95% of Dutch households have individual heating system
 - 5% district heating or other
- > Need for insulation, heat pumps, sustainable district heating and renewable energy (e.g. solar)



Bron: RVO.nl (2017)



Policy objectives

- › Dutch Climate Agreement
 - Over 100 organisations involved to set agenda for policies to reduce CO2 emissions by 49% in 2030
- › Heat in built environment
 - Reduce use of natural gas
 - Energy efficiency
 - Heat pumps
 - District heating (geothermal, biomass, surface water etc.)
- › Heat in industry
 - Residual heat
 - “power to heat”
 - Hydrogen





Programme for neighbourhoods 'free of natural gas'

- *27 pilot neighbourhoods in 2019*
- *In total 100 neighbourhoods in 2021*
- *18.000 buildings now → 30.000-50.000 a year in 2021*

Municipalities are in the lead, participation of inhabitants, planning, coordination of investments

National government facilitates (120 million in subsidies for 2019)

Goal is to learn and share experiences and best practices

27 aardgasvrije
wijken





Programme for neighbourhoods 'free of natural gas'

27 aardgasvrije
wijken

Goal for the long term is to:

- **Increase scale**
- Reduce costs
- Improve process
 - Planning (infrastructure, buildings, other local issues)
 - Participation and support of inhabitants
- Develop new technologies
- Learn and educate people for future neighbourhoods (Human Capital)





27 pilots → 350+ other municipalities

- › Knowledge sharing platform
 - Sharing experiences in pilot neighbourhoods
 - Compare situation in other municipalities
 - Communities of practice
- › Specific information and innovation questions
 - Technical solutions
 - Financing
 - Legal
 - etc





Challenges and dilemmas

- › Requirements vs. Cooperation and participation
 - Can we keep everybody satisfied in the Energy transition?
 - How can we improve support?

- › Costs decarbonisation of heat
 - Costs for industry
 - Costs for households
 - How to make it more affordable?

- › Timing: wait for innovation or start with suboptimal products?



Thank you very much for your attention.



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