Working on POSITIVE ENERGY DISTRICTS in Groningen (Netherlands)

8 dec. 2021

Els Struiving – sustainable demo houses
Introduction

Horizon 2020 – European Project

34 partners with Cartif (E) as coordinator

8 cities (NL, FIN, I, TR, E, P, SK, BG)

Goal: creating “Positive Energy Districts”

More energy generated than consumed

District level approach

Dec 2018 – Nov 2023
Partners Groningen

Gemeente Groningen
Rijksuniversiteit Groningen
Sustainable Buildings
TNO
Waarborg Vastgoed
Grunneger Power i.s.m.

Warmtestad
Hanzehogeschool
CGI
Nijestee
Energy Valley
Paddepoel Energiek
PED districts Groningen
Paddepoel: residential area from the sixties
Paddepoel: active local residents
Four sustainable demohouses

Zuiderkruislaan
bouwjaar 2006

Neptunusstraat
bouwjaar 1975

Grote Beerstraat
bouwjaar 2008

Grote Beerstraat
bouwjaar 1966
Demohouse 1: Zuiderkruislaan construction year 2008
Demohouse 1: Zuiderkruislaan

- Challenges:
  - Heat pump tuning
  - North facing roof
Demohouse 2: Neptunusstraat
Demohouse 2: Neptunusstraat

Challenges: Heat pump tuning in an old house, affordability, insulation
Demohouse 3: Grote Beerstraat construction year 2008

● Challenges:
  Finding the right solution + installation company
  Heat pump without outdoor unit
  Waiting for delivery of material
4th demohouse construction year 1966
Demohouse 4
(1966)

Challenges:

Former Social housing house
Financing renovation measures
Finding installation companies
Dissemination: spread the word!

Duurzame Huizendag
30 oktober 2021
MAKING-CITY is a 60-month Horizon 2020 project launched in December 2018. It aims to address and demonstrate the urban energy system transformation towards smart and low-carbon cities, based on the Positive Energy District (PED) concept. The PED concept will be tested and validated in two Lighthouse cities: Groningen (Netherlands) and Oulu (Finland).

Check MAKING-CITY Groningen on: www.makingcity.eu

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