



Preparing for the New Energy Act Developments in the Dutch Energy Transition

Fachkonferenz
Raus aus Gas Wien

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Gemeente Maastricht

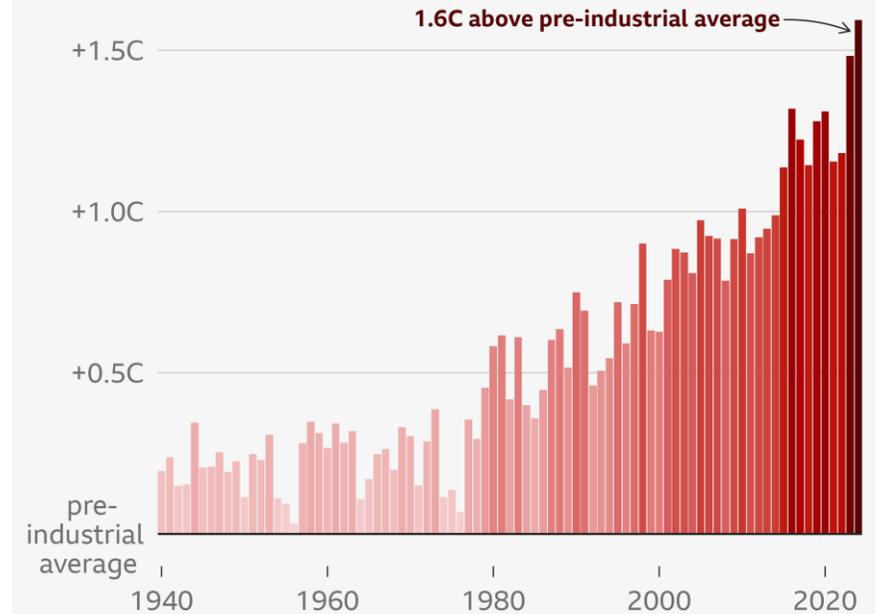
Why we do what we do

- The climate is changing, the Earth is becoming depleted, fossil energy has become increasingly expensive, and we want to be less dependent on energy from countries outside the European Union.
- That's why we have agreed together to reduce greenhouse gas emissions to zero by 2050.
 - Paris agreement in 2015
 - Dutch national climate agreement 2019
- To achieve this, we need everyone in Maastricht: entrepreneurs, grid operators, institutions, the municipality and its council, and the residents!

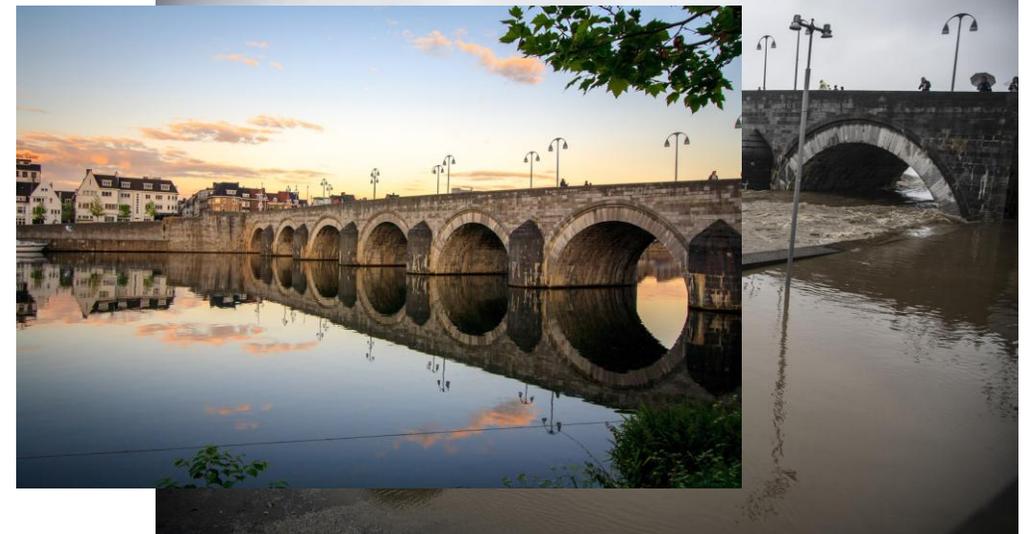


2024 was the first year above 1.5C

Global average temperature by year, compared with the pre-industrial average (1850-1900)



Source: ERA5, C3S/ECMWF. Darker reds reflect greater warming



National Framework - Laws and regulations

The energy transition is guided nationally, but implemented locally

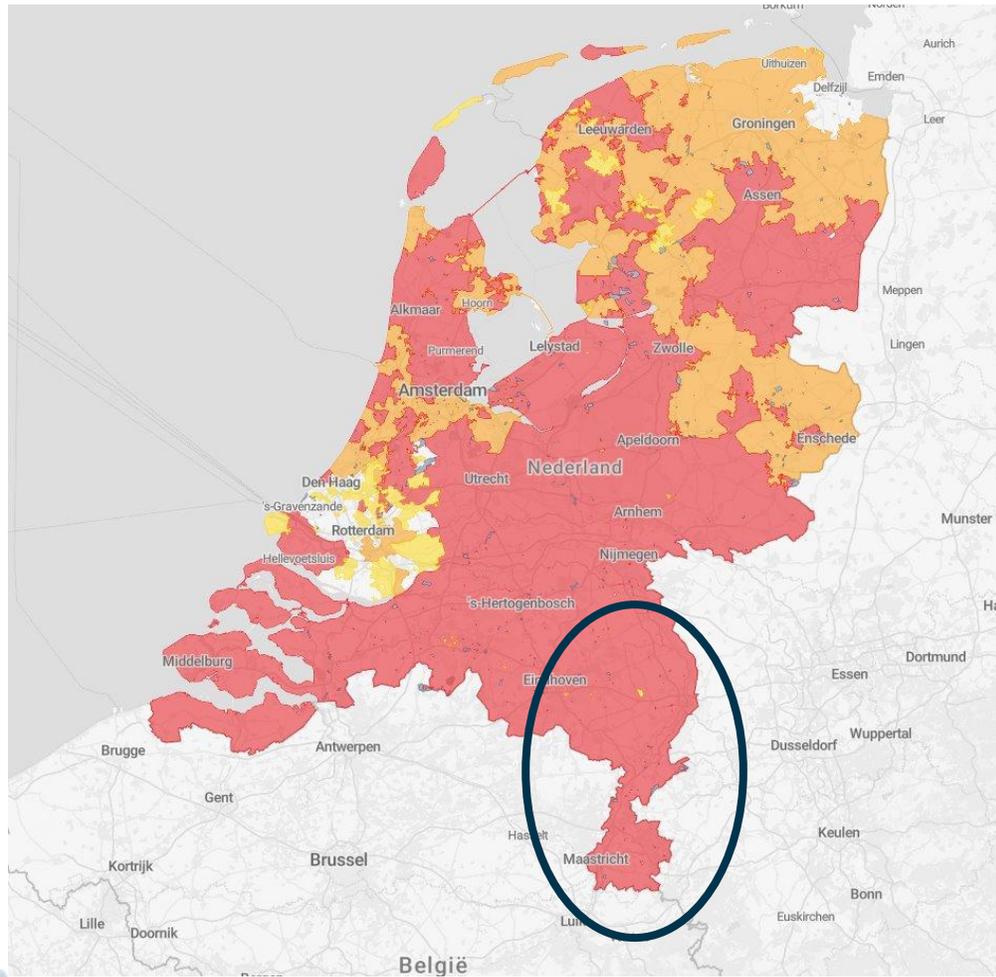
- New authority to designate areas for gas disconnection (Municipal Heat Transition Instruments Act, Wgiw)
 - Structured, area-based transition towards gas-free heating
- Heat infrastructure in public hands (Collective Heat Supply Act, Wcw)
 - District heating more than 50% under public control
- New Energy Act (Energiewet)
 - Enables local energy sharing and supports smart, flexible grids

Growing Municipal role: from facilitator to active coordinator of local energy systems

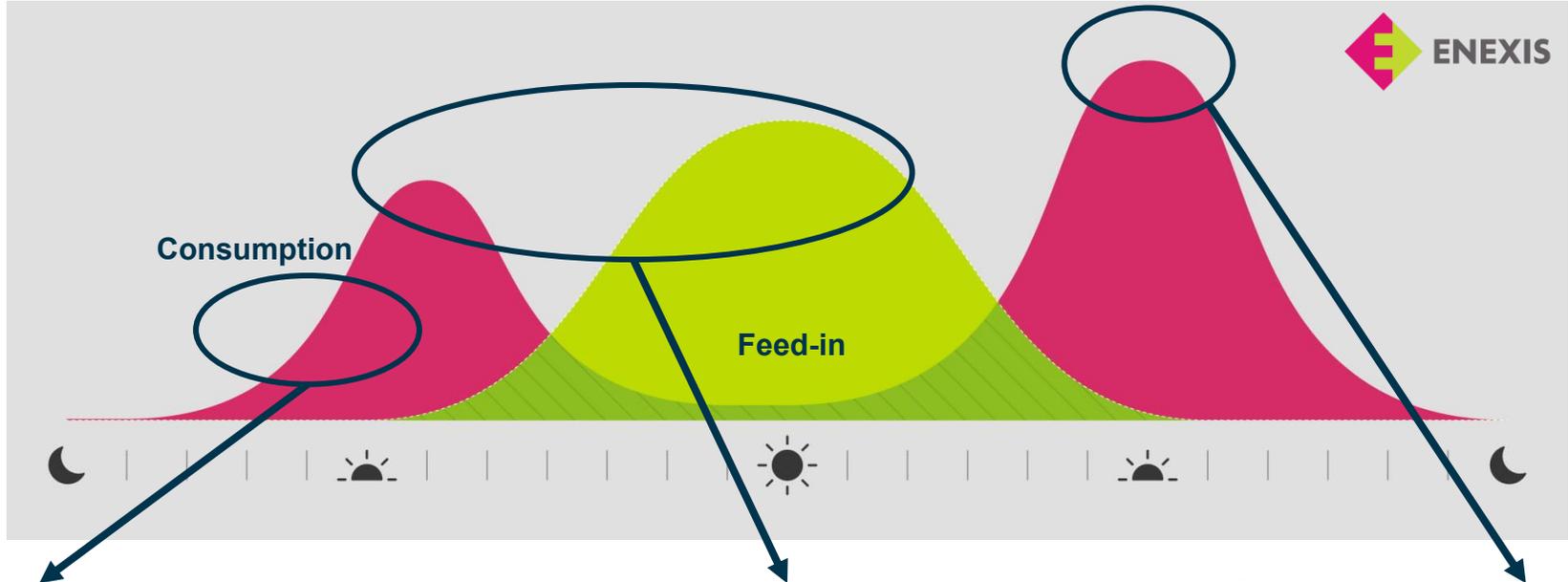
But Dutch politics.....



Electricity grid congestion challenge



Peak capacity

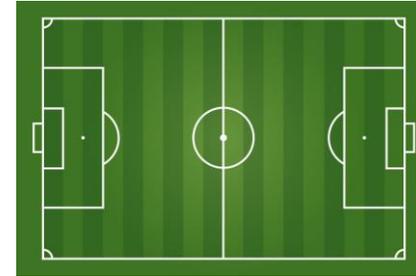


Grid expansion

- Investment plans
- Work load capacity
- Spacial planning

In Limburg that means:

- 6.600 new local substations (Low volgate)
- 80 – 120 new transformer substations (Medium voltage) =
- 5.336 km new underground cable
- Expected to be done by 2040



46 soccerfields



18.480 parking spots



**25 times the
highway A2**





Maastricht

Aardgasvrij

Samen naar een klimaatneutrale gemeente in 2050



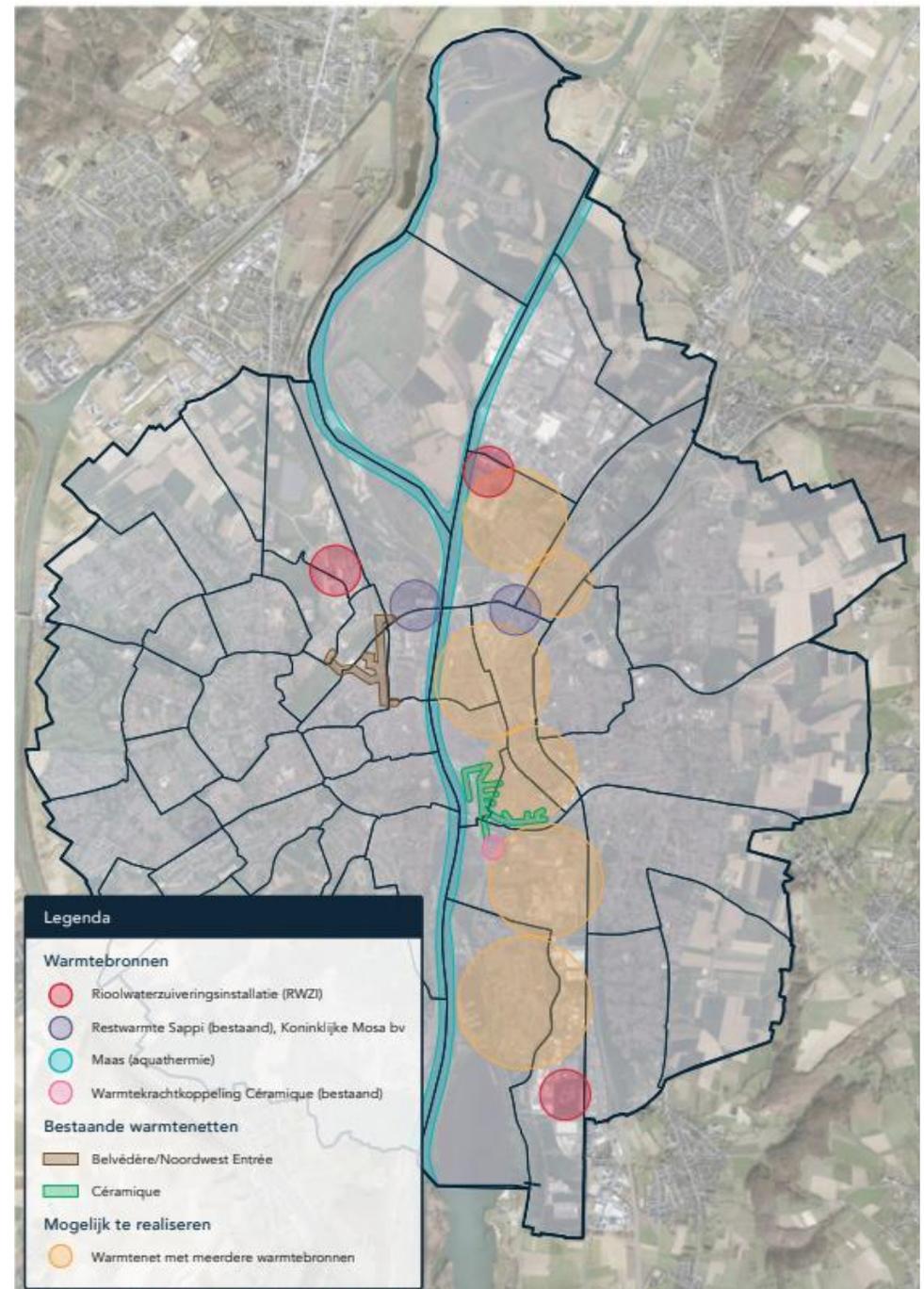
Whole energy system in scope

- Demanding sector
 - **Built environment**
 - Industry
 - Mobility
- Energy transporters
 - Heat
 - Electricity
 - Hydrogen



Maastricht now

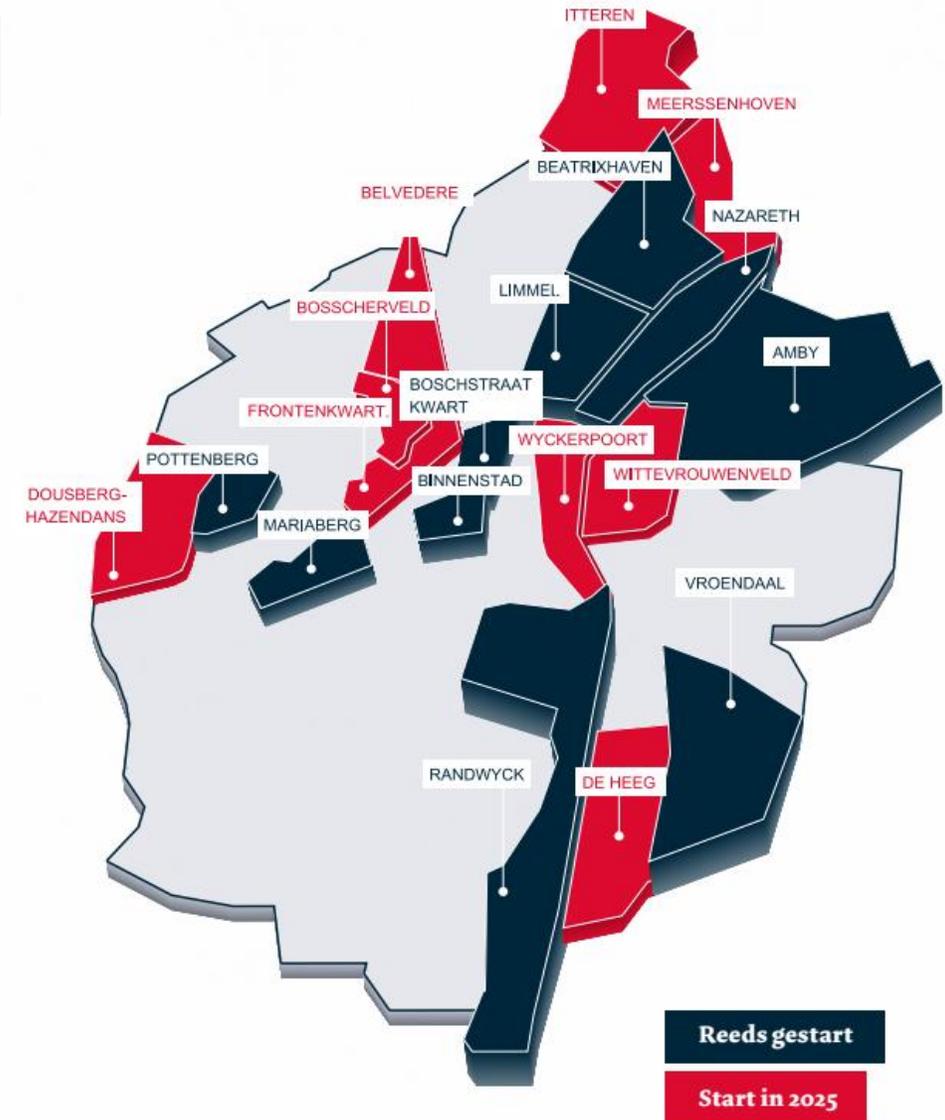
- 2 small heat-districts (2.500 buildings)
 - 90% still fossil fuel heating
- Heat potential from:
 - Factories
 - Sewage treatment plants
 - Meuse (river)
 - Research to heat storage
- Rest to all-electric
- Difficulty with historic city centre



Transition vision Heat and Energy – Approach

By 2030:

- Effective target group approach
- Area-based approach in all 44 neighbourhoods
- Most neighbourhoods have clarity about the gasfree-alternative
- (the municipal organisation itself is climate neutral)



* Frontenkwartier ten noordoosten van Cabergerweg



Five paths to 2050

Over 5 sporen



Electricity grid

in 2030:

- is het elektriciteitsnet niet meer belemmerend richting een aardgasvrije toekomst
- is er een overzicht van alle benodigde locaties
- is er een overzicht van indicatieve einddata van aardgas
- moeten de doelstellingen van RES Zuid-Limburg 1.0 zijn behaald

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Insulation

in 2030 is:

- is de resterende isolatie-opgave minimaal een kwart kleiner
- is er jaarlijks ondersteuning geboden bij isolatie van minimaal 1.000 gebouwen

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Heating districts

in 2030:

- is er duidelijkheid voor bijna alle buurten
- zijn de eerste aansluitingen gerealiseerd met warmte van de RWZI's
- zijn er verschillende kleinschalige warmtenetten

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Hydrogen & green gas

in 2030:

- is toegang tot waterstof een realistische optie
- is de energiebehoefte van de industrie in kaart gebracht
- is de toepassing van groen gas in kaart gebracht

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Sustainable industry

in 2030:

- is er voor elk van de vier grote bedrijvenlocaties een routekaart, aardgas-alternatief en indicatieve einddatum voor aardgas
- vormt netcongestie geen onnodige belemmering meer

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Take aways

- *Strong laws give more “Tatkraft”*
- *Avoid grid congestion ;)*
- *Look at the energy system as a whole*
- *Produce, store and use energy locally (decentralisation)*
- *Work area/ neighbourhood centred for more social acceptance*
- *Planning, short term and realistic*





Thank you kindly
for listening

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