From local needs to national heat strategy



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SER Energy Agreement 2013 (Energie Akkoord)

- First national overall plan on the energy transition
- Signed by 47 parties, ranging from relevant stakeholders, (local) governments, employers' associations, unions and NGO's.
- Three mistakes: Parliament was not involved, too much top-down, not clear on responsibilities



Urgenda Wins Climate Case 2015

- Against Dutch Government
- First in the world demanding 25% reduction GHG compared to 1990
- State appealed even though it took steps to meet the target set by the Court
- In December 2019 the Supreme Court confirmed the 2015 court decision



Conference of Parties (COP-21)

- The COP -21 in Paris in 2015 was a wake-up. It was a turning point for Dutch and EU climate and energy policy.
- The COP-21 not only concerned the sustainability of energy, but the reduction of all greenhouse gases.





Climate Agreement (Klimaatakkoord)

- After the national elections in 2017 the national government took the initiative to get started with the climate agreement.
- Creation of sector tables with their own reduction target.
- Depending on the objective, the participants are assigned to sector tables, governments, industries, interest groups, and social groupings and labor unions.







Regional Energy Strategy (RES)

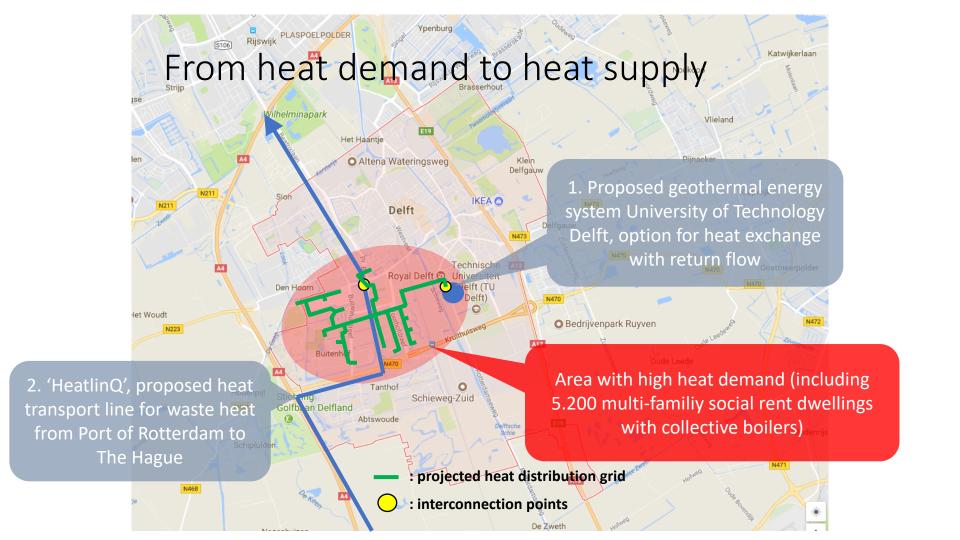
- As a follow-up to the sector tables, the establishment of regional plans (RES), aimed at a strategic energy approach
- Inventory of possible sustainable sources (wind turbines, solar meadows, geothermal sources) and energy consumption
- Consultation with the stakeholders
- Regional approach, thus transcending municipal boundaries
- The total of regional energy plans must add up to the national task



District heating in The Netherlands

- Nowadays only 5% of Dutch dwellings are connected to a heat network
- National Climate Agreement: potential of district heating equals 25% - 50% of all dwellings in 2050, which demands an enormous growth of connections
- However, the current increase of new grid connections is rather low ...





Local wishes with respect to district heating

- Cooperation municipality, local housing associations and DSO!
- Goal: open heat infrastructure
- Open: separation of heat supply and ownership network



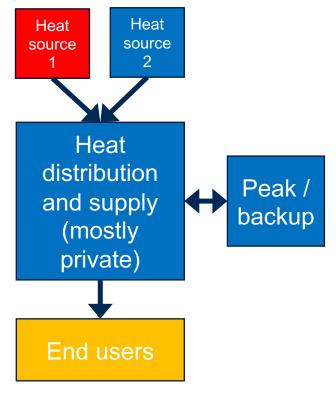
What can boost the heat market?

- All energy infrastructure (also for heat) 100% publicly owned:
 - district heating will become a vital infrastructure, like electricity
 - affordability asks for smart local trade-offs between different energy infrastructures
- Competion needed amongst heat suppliers on 1 grid:
 - to break through the dominance of only 4 big market players
 - to get transparancy in business cases and fair rates



Current heat market model

in The Netherlands: monopoly for supplier, no choice for end users



Proposed heat market model for Delft, amongst others, with division between supply and

