

GEMEENTE



Nijmegen

Nijmegen: the Netherlands Energy neutral City in 2045

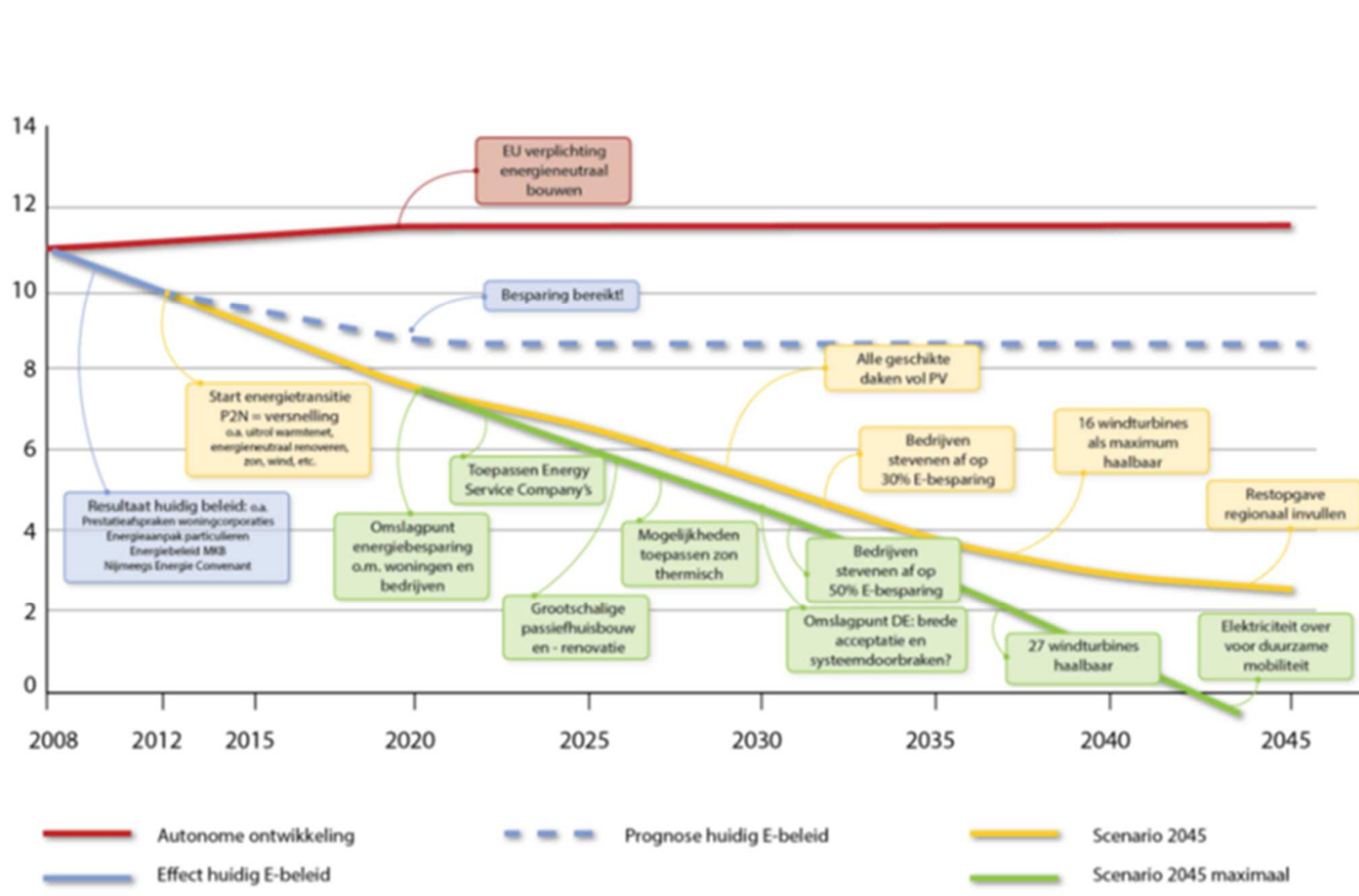
Jan van der Meer, former alderman.



POWER  NIJMEGEN

Op weg naar een energieneutrale stad in 2045

Road map to energy neutrality in 2045:



Objective and problems:

Nijmegen (population 168.000) energy neutral in 2045

How to activate all target groups obtaining this objective?

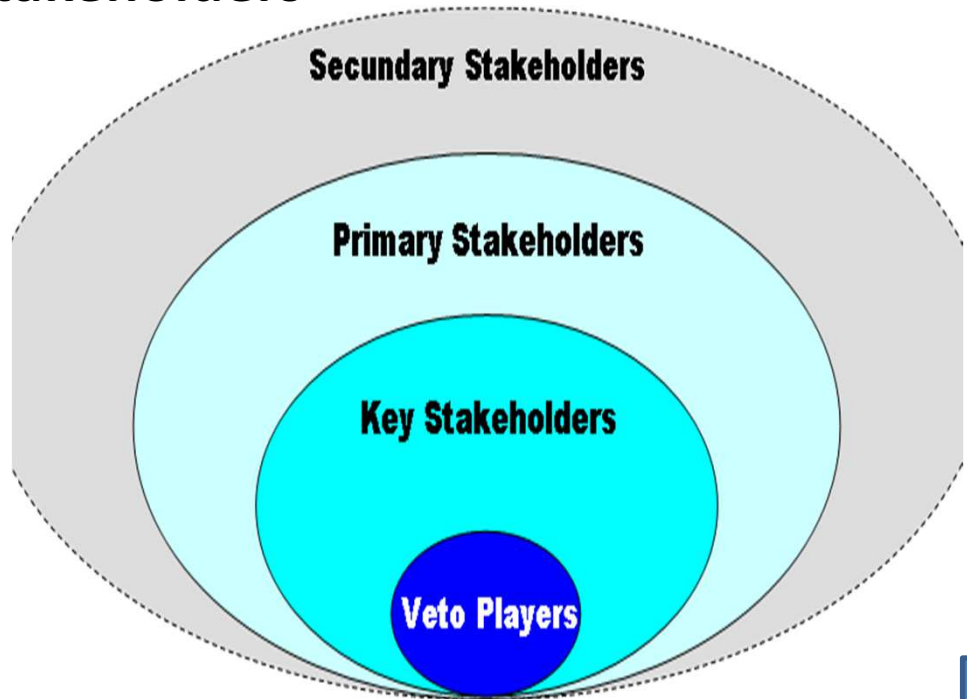
- Small and big companies
- Housing corporations (rented houses)
- Private house owners and individuals
- Government and public institutions
- Transportation system

Problems:

- A lack of support for some solutions like wind power
- Financial barriers
- Awareness about the extent of the problem



- **Stakeholders**



- Secondary partners:**
- University
 - Regional governments
 - National government

- Primary / beneficiaries:**
- Small and big companies
 - Public institutions
 - Private house owners
 - House renters

- Key Players / actors**
- Small and big companies
 - Housing corporations
 - Public institutions
 - Private house owners

- Veto players:**
- Town council
 - Regional and National government

Approach:

Housing corporations:

- Performance agreements
- Subsidies

Private house owners:

- Subsidies
- Unburden the customer

Small business:

- energy scans
- financial incentives
- enforcing by law

Big business and public institutions:

- Nijmegen Energy Covenant (voluntary agreement)

Higher governments:

- Getting subsidies for our projects with regional impact
like windmills, cycle highways
busses driving on biogas (made of waste) and sustainable heat network



Outputs:

- 7% (!) less energy consumption in 2014 compared to 2008
- All the 250 busses in the region Arnhem-Nijmegen drive on biogas made of organic waste
- Construction of a heat network with heat from the local waste incineration plant; good for warming 35.000 houses
- ... km of cycle highways
- Consensus in town council for realization of 5 big windmills
- Broad support for Power2Nijmegen



Lessons to learn:

- How to deal with offending lobbyists
- How to convince town council
- Costs/benefits analysis; how to calculate benefits of clean air, accessibility, health (cycle lanes) etc.
- Who pays the initial investment and who is responsible for the exploitation costs; Life cycle budget?
- Practice what you preach



Preconditions for transfer of Innovation to other cities:

Windmills:

- Get support from local communities;
burdens and benefits
- Start local energy corporations/cooperatives



Green gas:

- Investigate which of the waste streams are interesting for fermentation

Solar:

- Start with solar panels on public roofs
(practice what you preach)
- Support private companies in
disseminating the technology

