



COGEN

Voor kwaliteitsvolle Warmte-krachtkoppeling

Fuel Cell Micro-CHP Deployment in Belgium: barriers and opportunities

COGEN Vlaanderen
WKK-ontmoetingsdag
27/09/2016

Fuel Cell Micro-CHP Deployment in Belgium: barriers and opportunities



1. Technology
2. Market
3. Policy

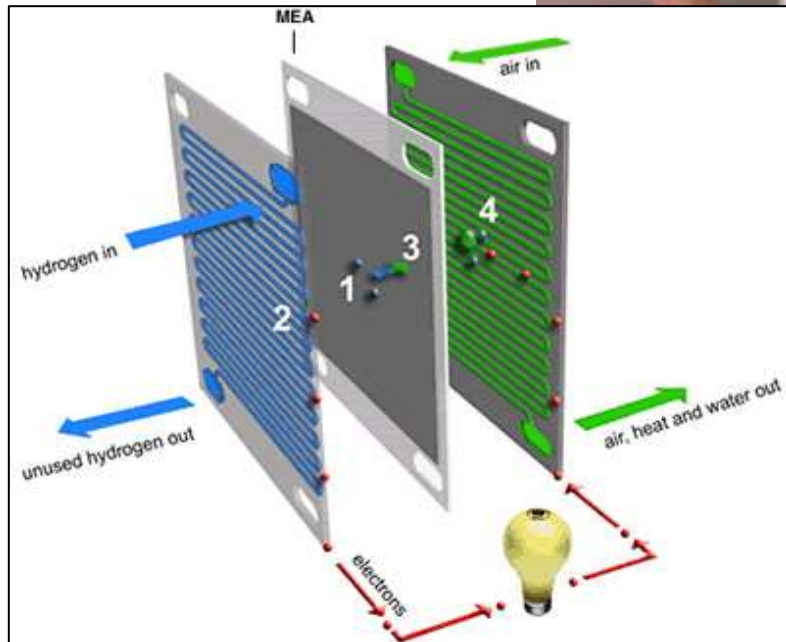
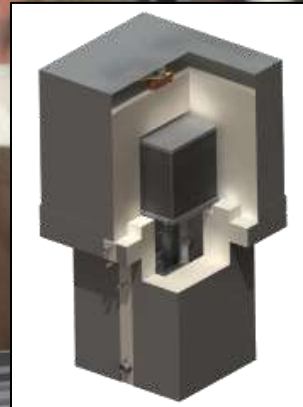
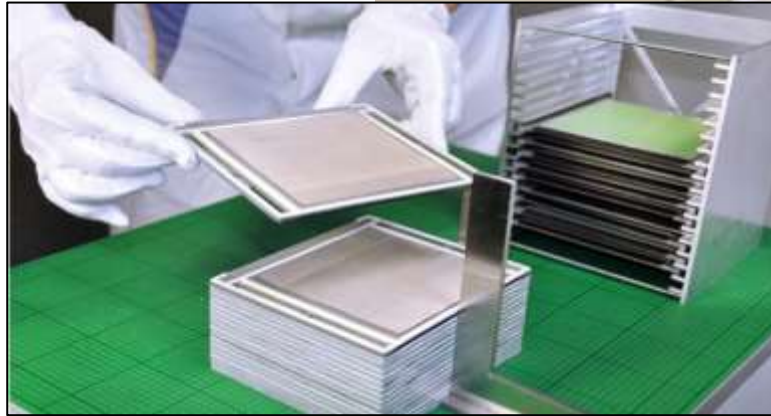
Technology



Technology

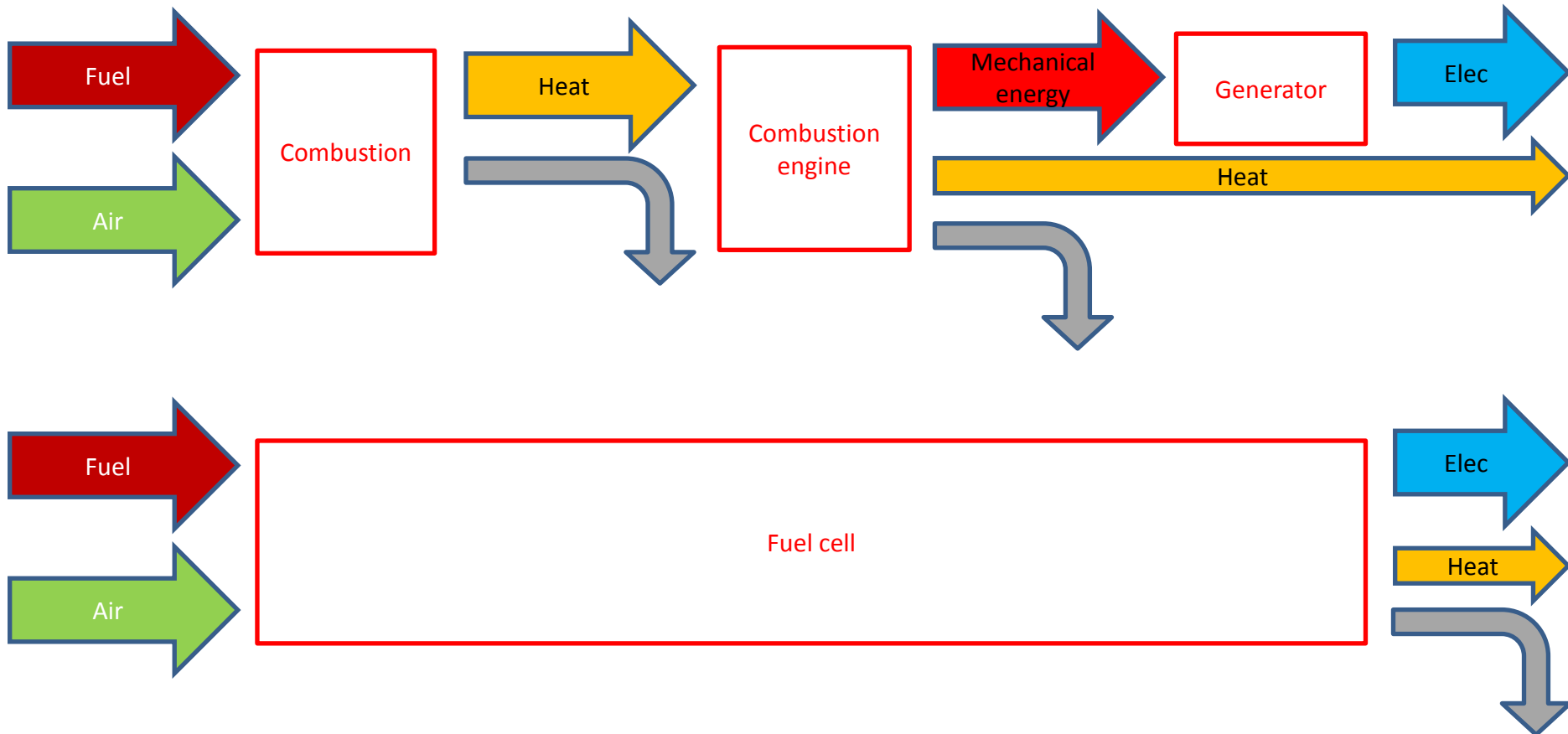


- Composition



Technology

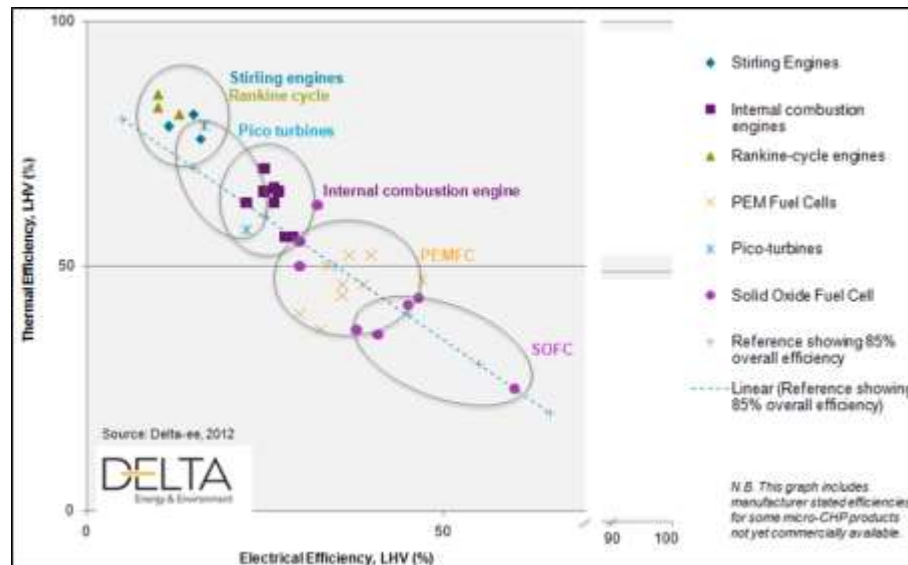
- Electrochemical process



Technology



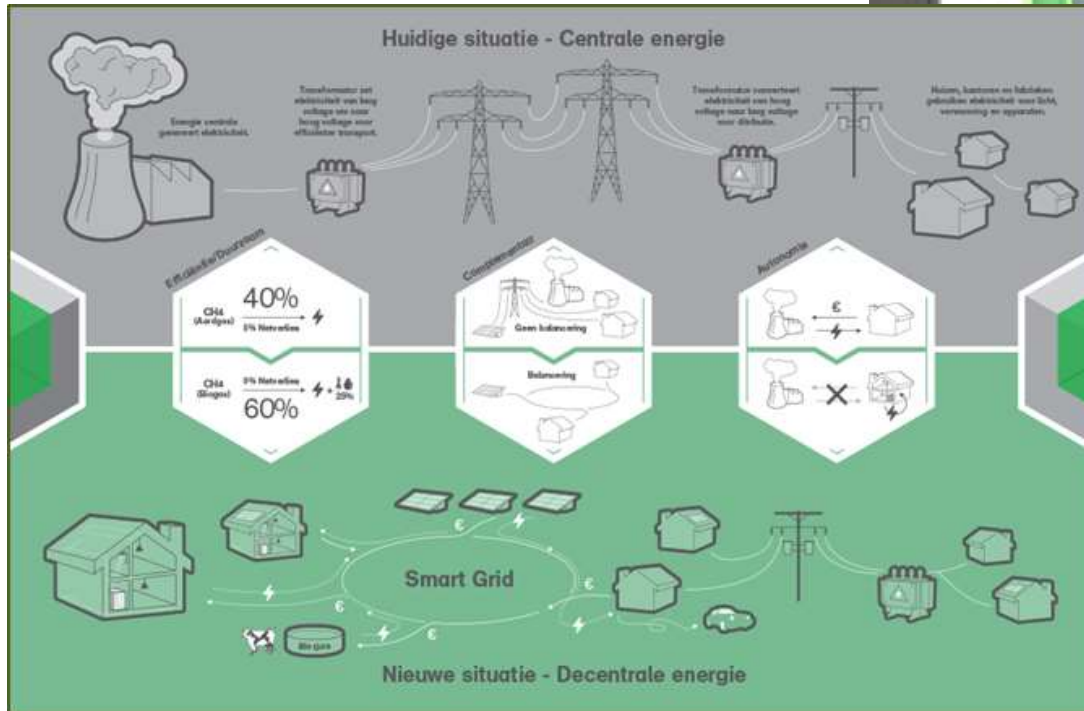
- Diversity



Technology



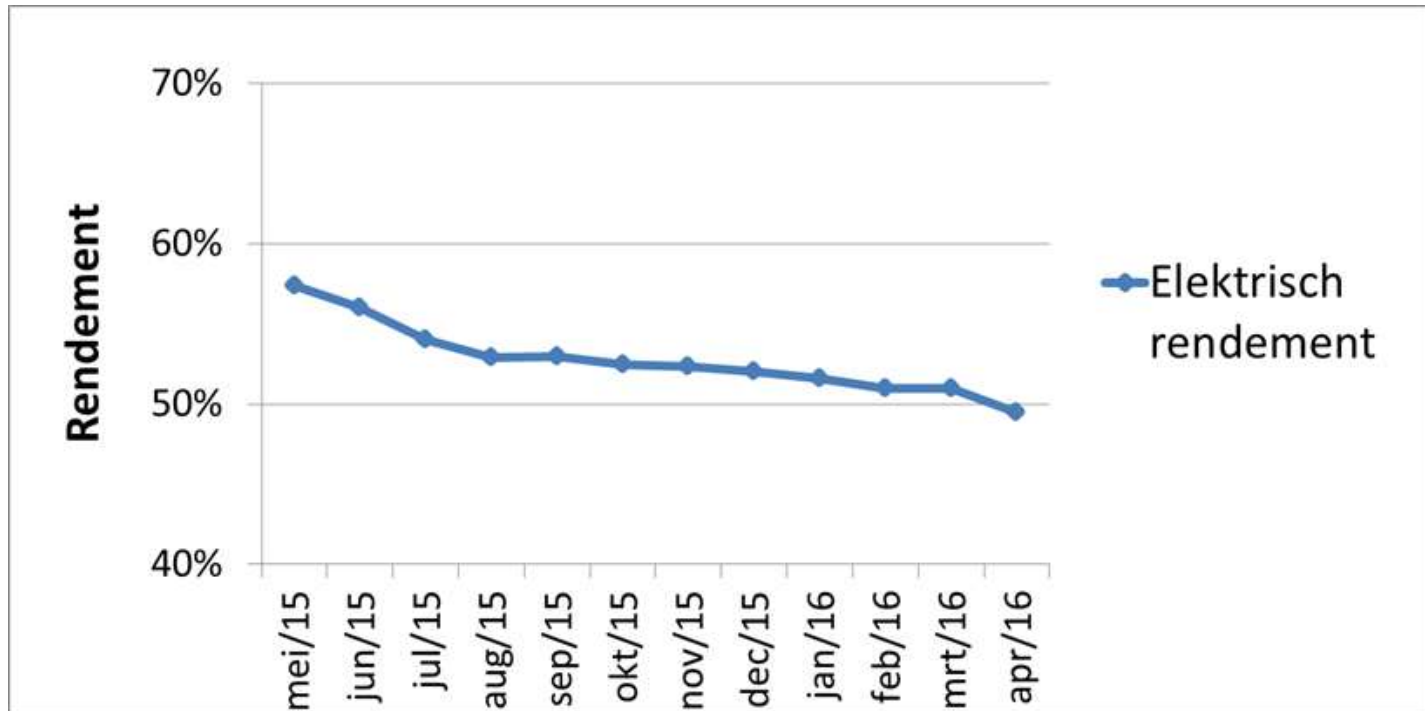
- Flexibility



Technology



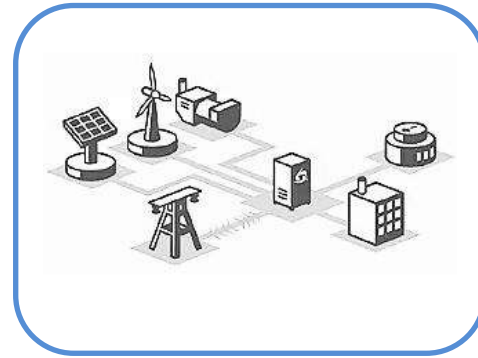
- Degradation and lifetime vs. cost



Technology



- Advantages and risks

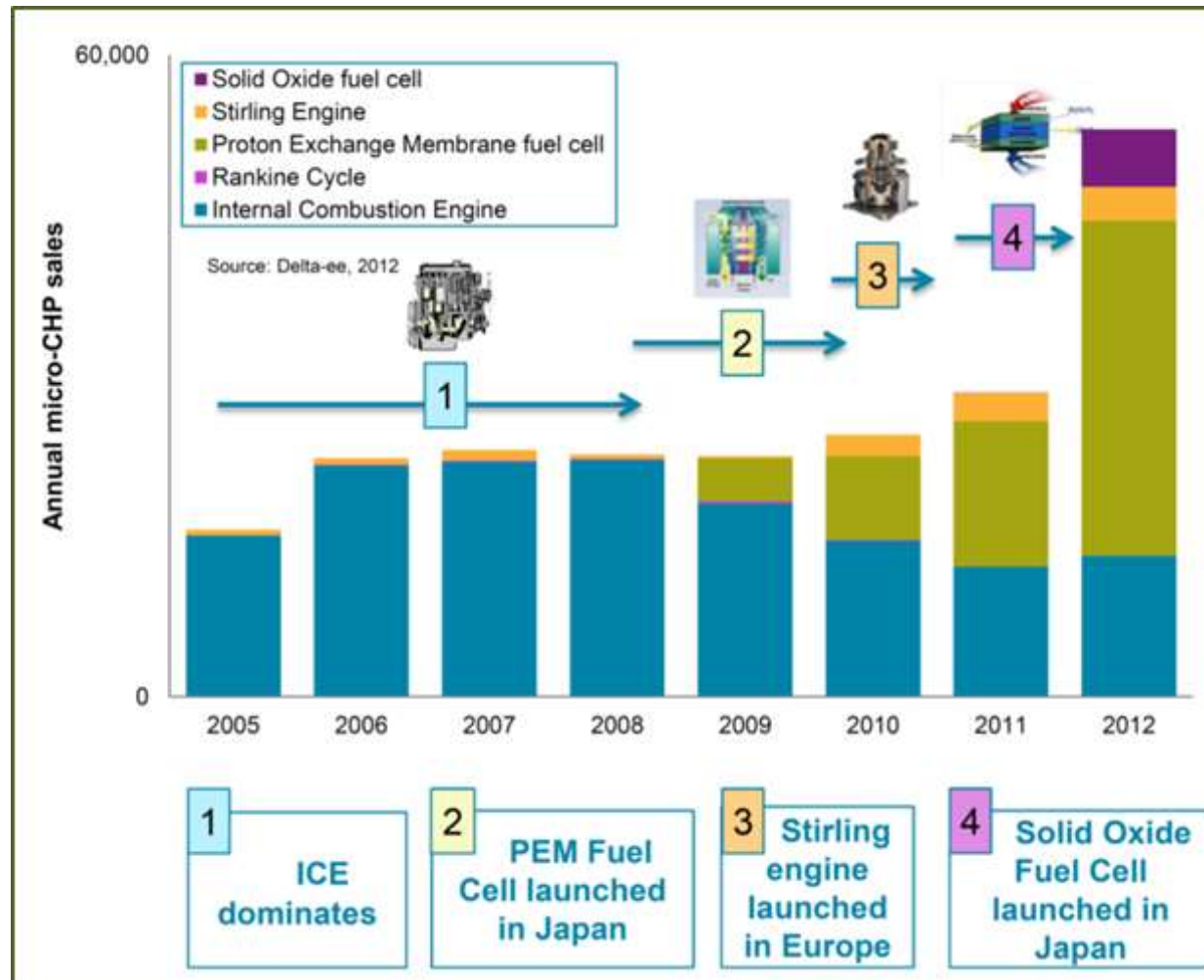


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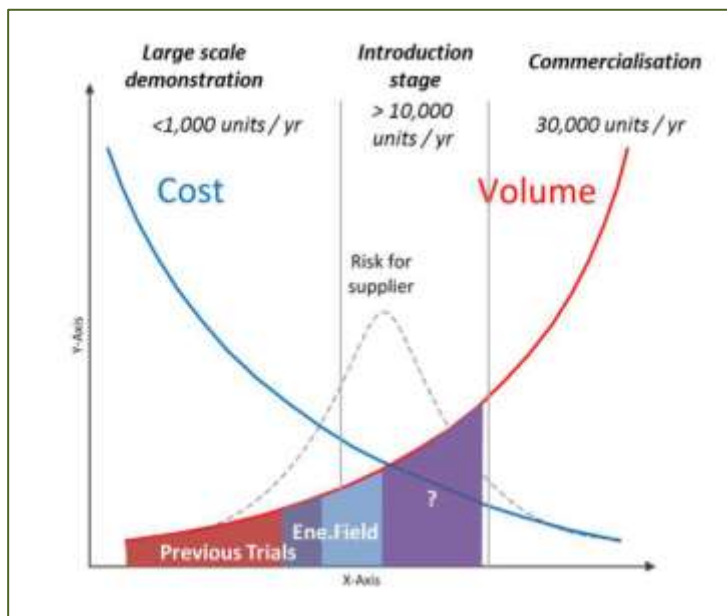
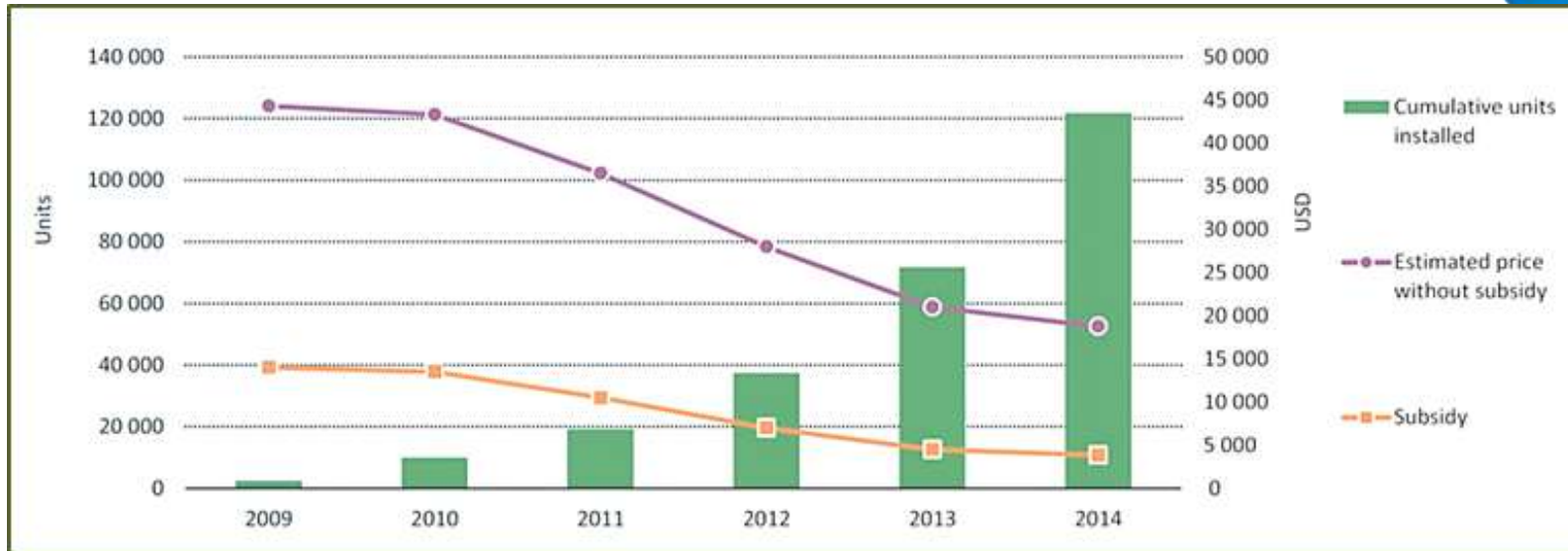


1. Technology
- 2. Market**
3. Policy

Market development



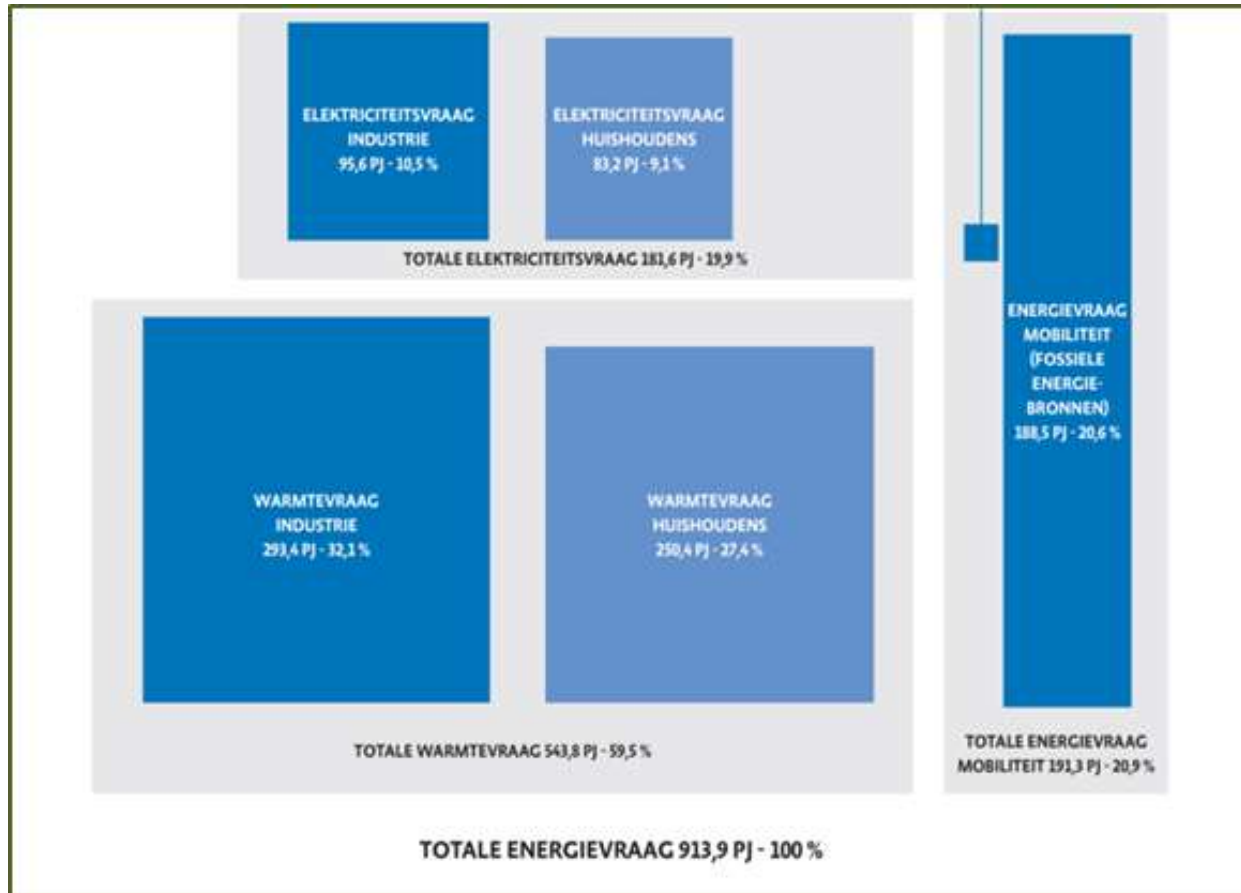
Market development



Market development



- Potential



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1. Technology
2. Market
3. **Policy**

Policy



- Awareness among policy makers
- Role of fuel cells in energy system
- Complex support system (certificates)
- EPB

Main conclusions and recommendations



- Valuable technology with high PEB and low emissions
- Significant potential within the domestical sector and SME's
- Main technical disadvantage: cost versus lifetime
- Technological developments are still going on
- Market is at an early stage
- More political awareness is necessary
- The technology will be developed further, if we don't get involved this is a missed opportunity for our region.
- Need for more technological knowledge, demonstration projects and raising awareness
- Support to get out of the niche market



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Thank you