




 City of Rotterdam


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Innovative urban energy planning



City		Port
Area :	320 km2	Area:
Inhabitants:	618.000	Length of port area:
Nationalities:	175	Direct employment:
Municipal Budget:	4.2 billion Euro's	Goods throughput:
Sewer system	3000 km	Shipping:
		yr






Rotterdam, city in the Meuse-Rhine delta ... 

Current energy infrastructure


"Nuclear-powered vacuum cleaners will probably be a reality in 10 years."


Alex Lewyt
President of Lewyt vacuum company,
1955



POPULAR MECHANICS MAGAZINE

The new Miller Home is a real home. It's even better than the one you're in now. Except for the fact it would be ready for the station market this month.








Future energy infrastructure

Design principals:

- ✓ Reduce > re-use > produce
- ✓ Integrated & systemic approach
- ✓ Optimal combination of measures

The future energy infrastructure facilitates:


- the optimal use, exchange and storage
- supports development and (local) innovations


Rotterdam Energy Infrastructure Plan

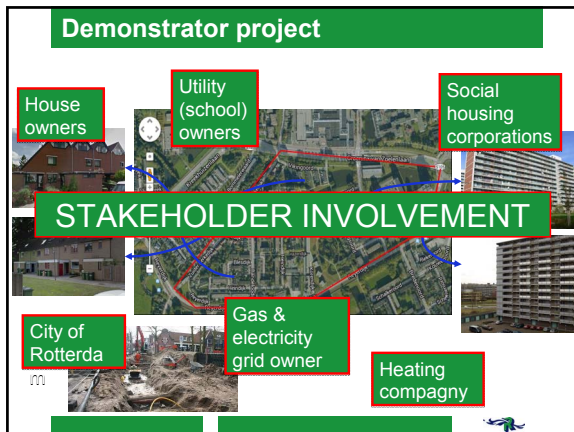
from ambition towards action

- Energy mix: what is possible?
- Infrastructure plan: what is needed?
- Roadmap: how to get there?



Information & instruments





Financial & technical

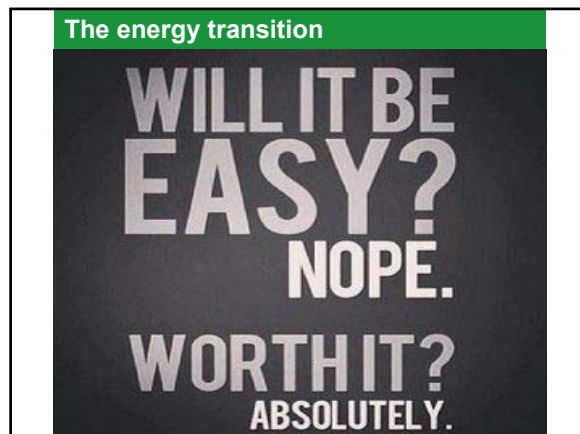
Scenarios:

1. All electric + insulation (low temp. heating)
2. District heating + insulation (high temp. heating)
3. Mix of all electric & district heating + insulation

Insight:

- Current situation
- Technical potential & barriers
- Total cost & benefits per scenario
- Cost & benefits per stakeholder (in time)

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Questions?

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