

## Climate Change

Think Globally,  
Act Locally  
And Act Now!

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*Member of the executive board  
of the province of Drenthe*

*provincie* Drenthe



## Global challenges...

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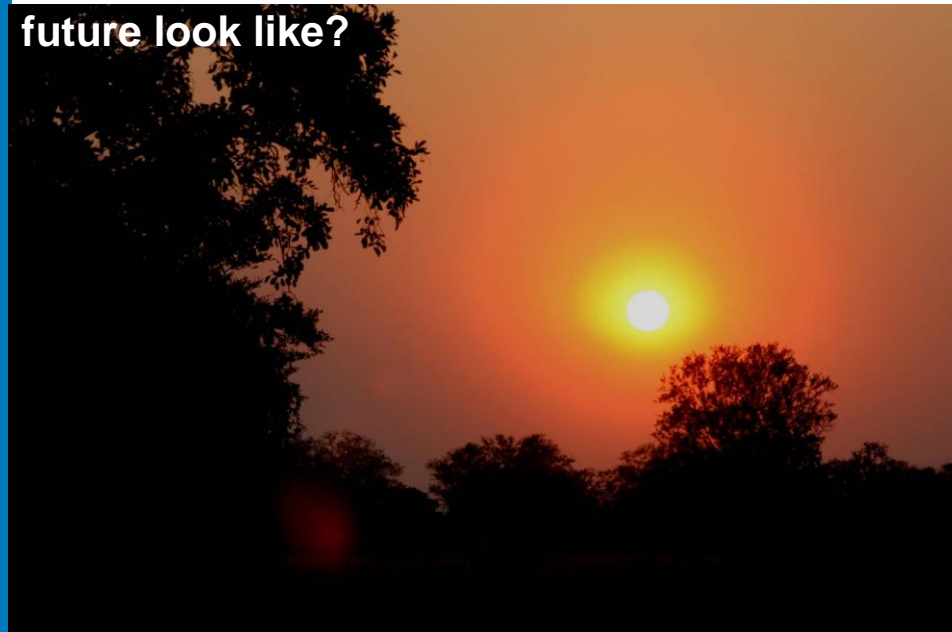
**...demand for regional  
and local action!**

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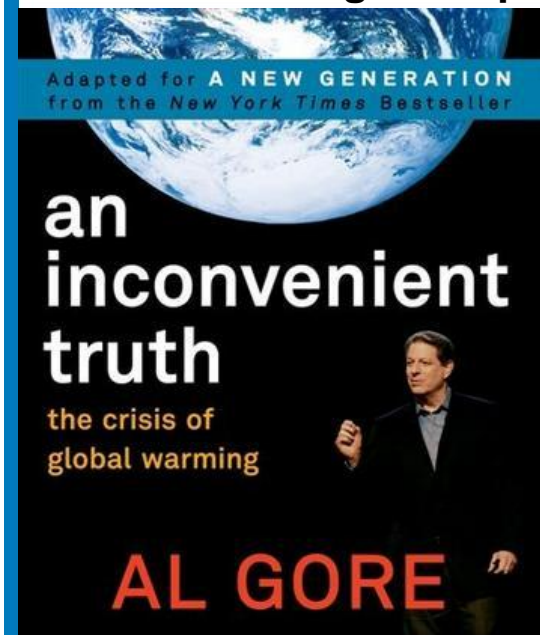
**And how will the  
future look like?**

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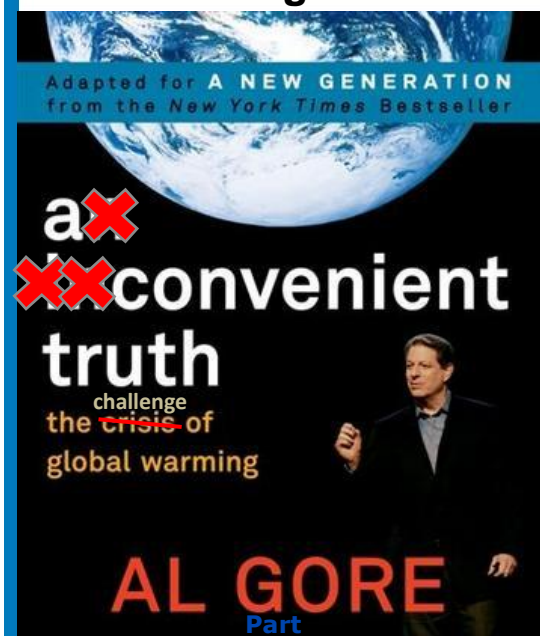
## Serious warnings accepted

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## New challenges to meet

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## Energy and space

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Energy and space historically united in the North.

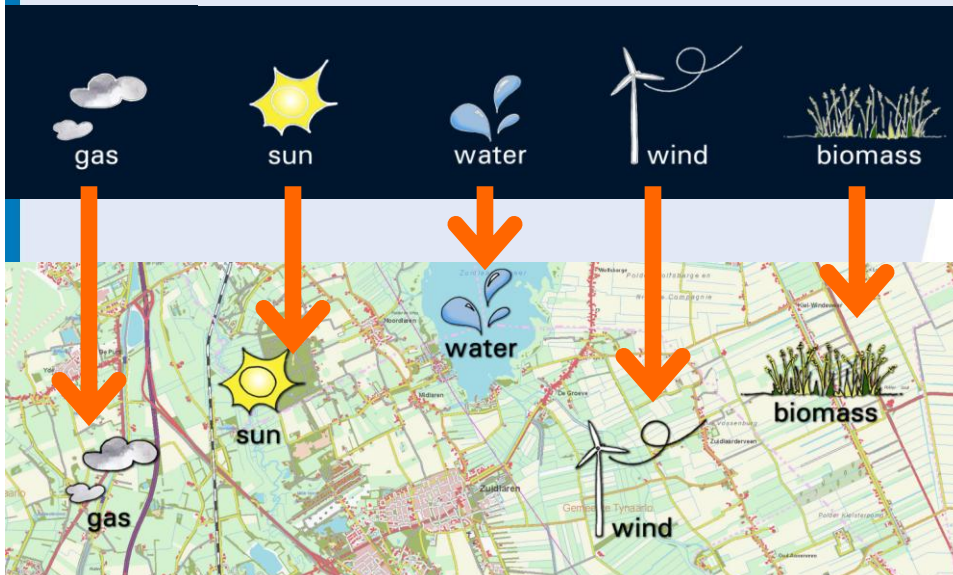
Traditional energy sources:

- Peat
- Oil
- Natural gas

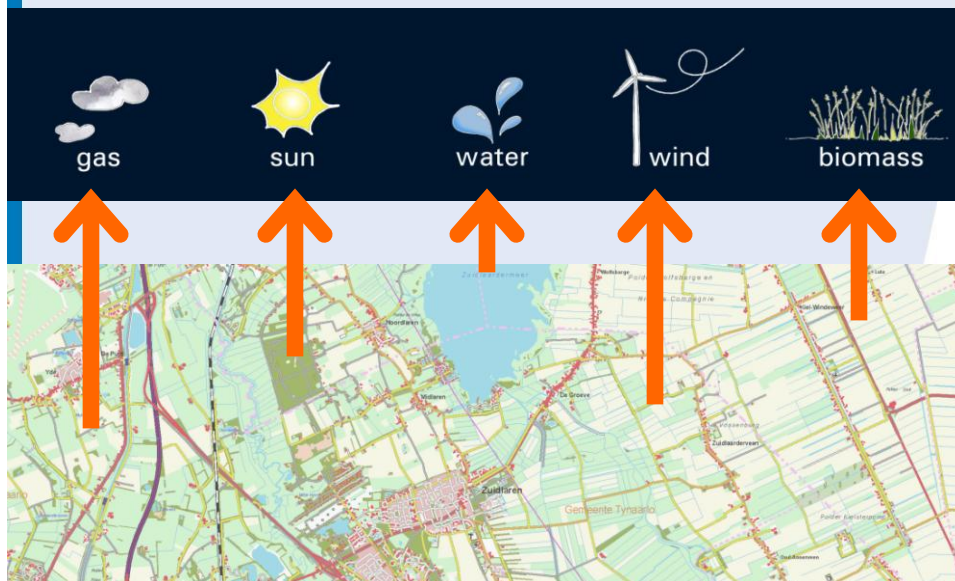


Aiming at sustainable energy  
system affects spatial design

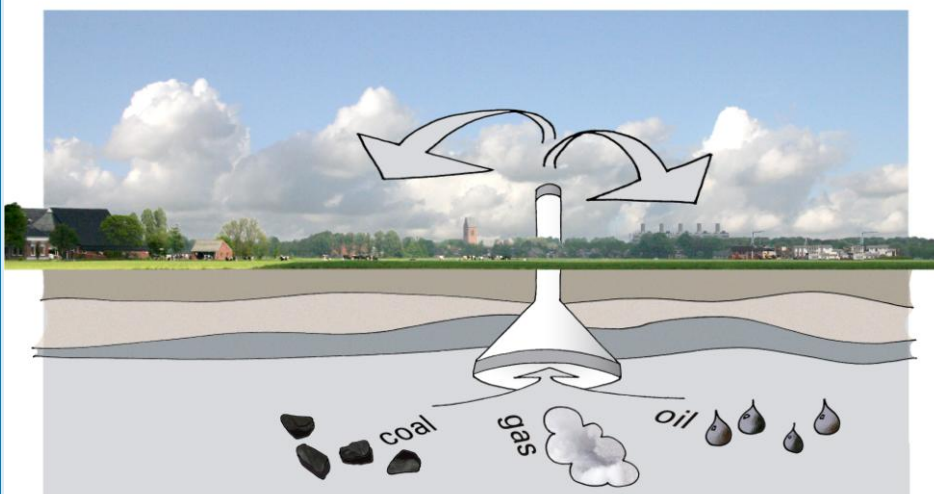
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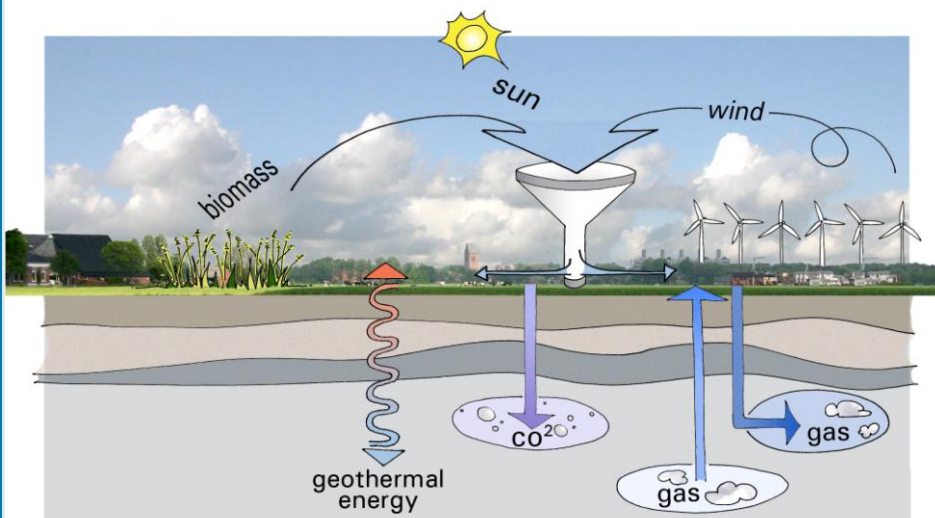
## Aiming at spatial design affects future energy system *provincie Drenthe*



## Energy from “underground”: Small spatial claims. *provincie Drenthe*

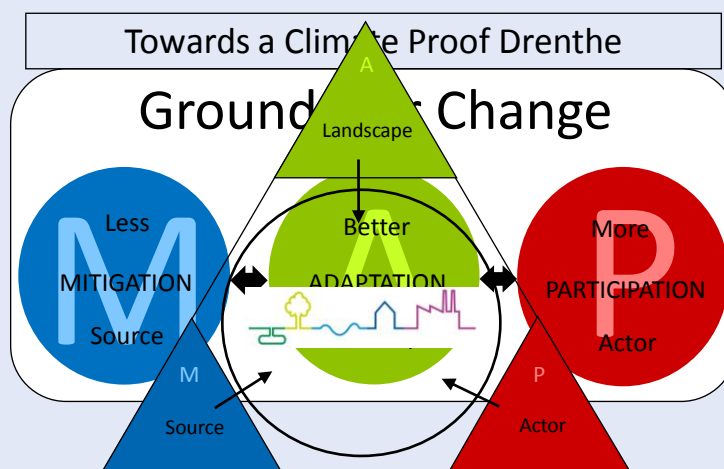


## Future energy supply increasingly *provincie Drenthe* surface bound: Large spatial claims



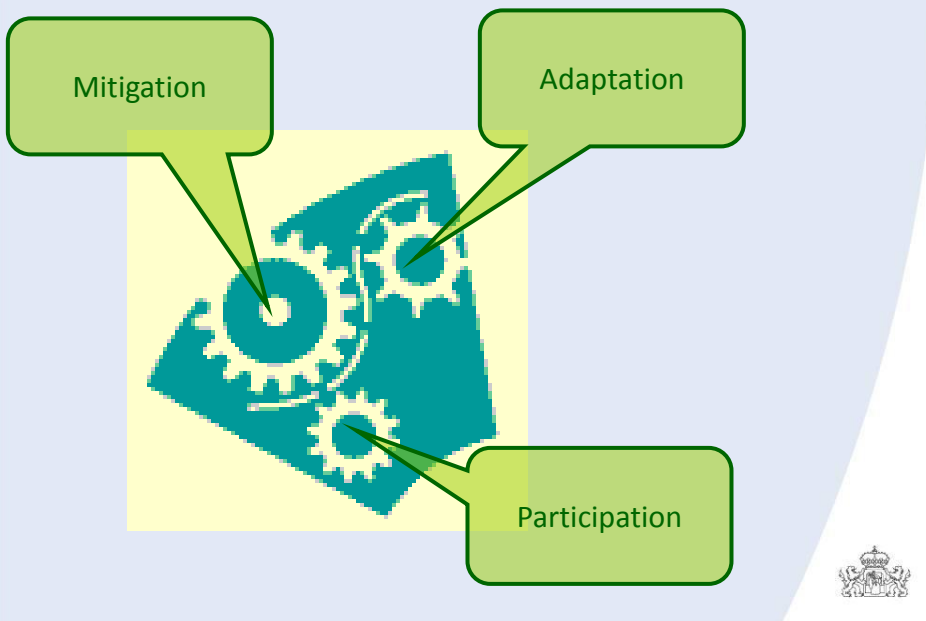
## Integral approach

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## Our MAPproach

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## Mitigation

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### 2020 Targets:

- 30% CO<sub>2</sub> emission reduction (base year 1990)
- Annual efficiency improvement: 2%
- Share renewable energy production: 20%



## Green Gas Hubs

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- Large scale production locations of biogas
- Upgrading Biogas to Green Gas (natural gas quality)



## Biofuels

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Large scale production of second generation biofuels



Sun<sup>oil</sup>

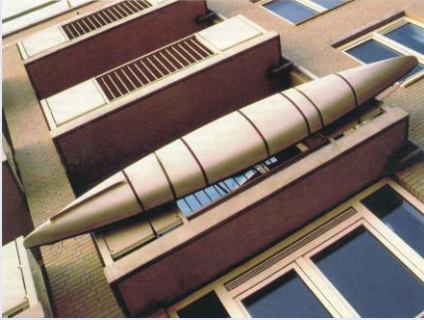




## Adaptation

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Some are prepared...



others are not...



## Integral approach

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Combining Watermanagement, Nature Preservation  
and Recreation Activity



## Hot spot

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Hot Spot Climate Change and Agriculture:  
How to adapt?



## Participation

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100.000 upgraded low  
energy dwellings



100.000 sustainable cars



## 100.000 sustainable dwellings *provincie Drenthe*



## Plug-in hybride

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**Thank you!**

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