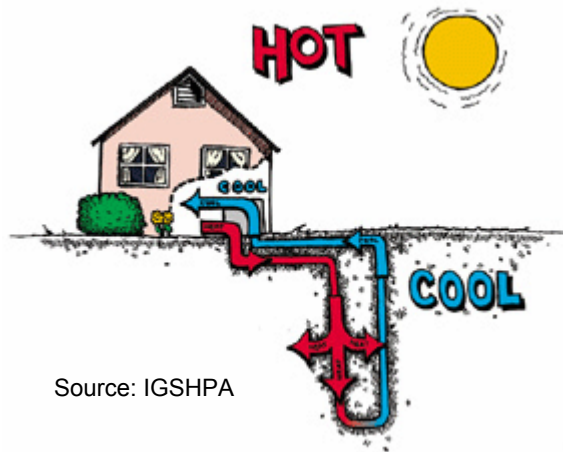




Ministry of Housing, Spatial Planning
and the Environment

Soil remediation versus soil energy: Conflict or opportunity?



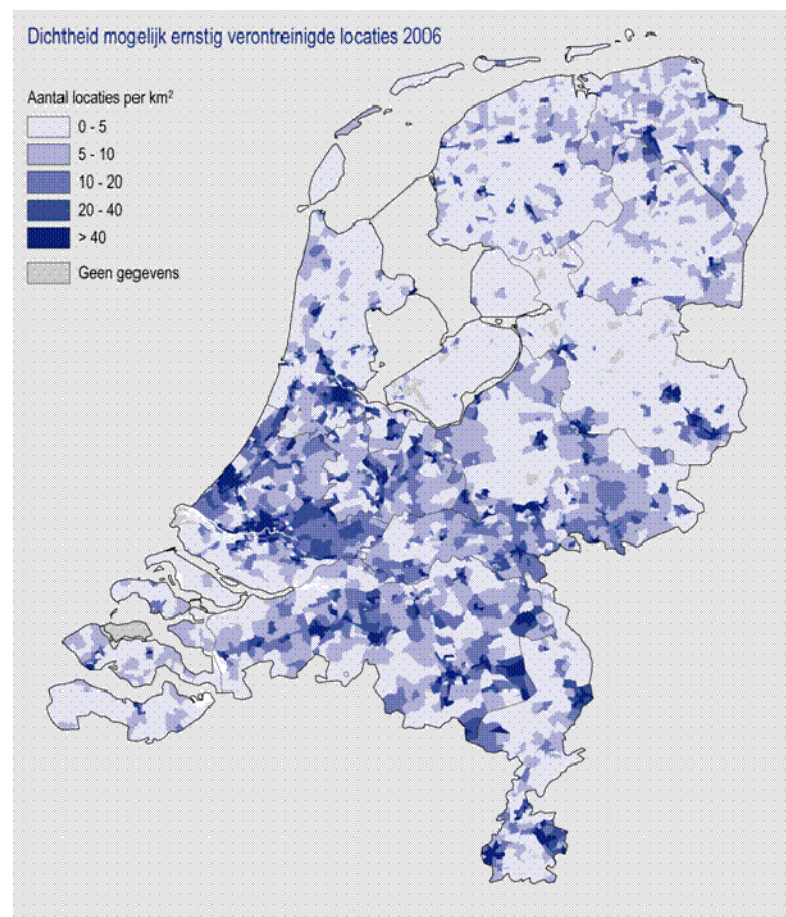
Source: IGSHPA

Margot Meijer
September 2009

29 september 2009



Contaminated sites (2006)





Ambitions

Energy saving



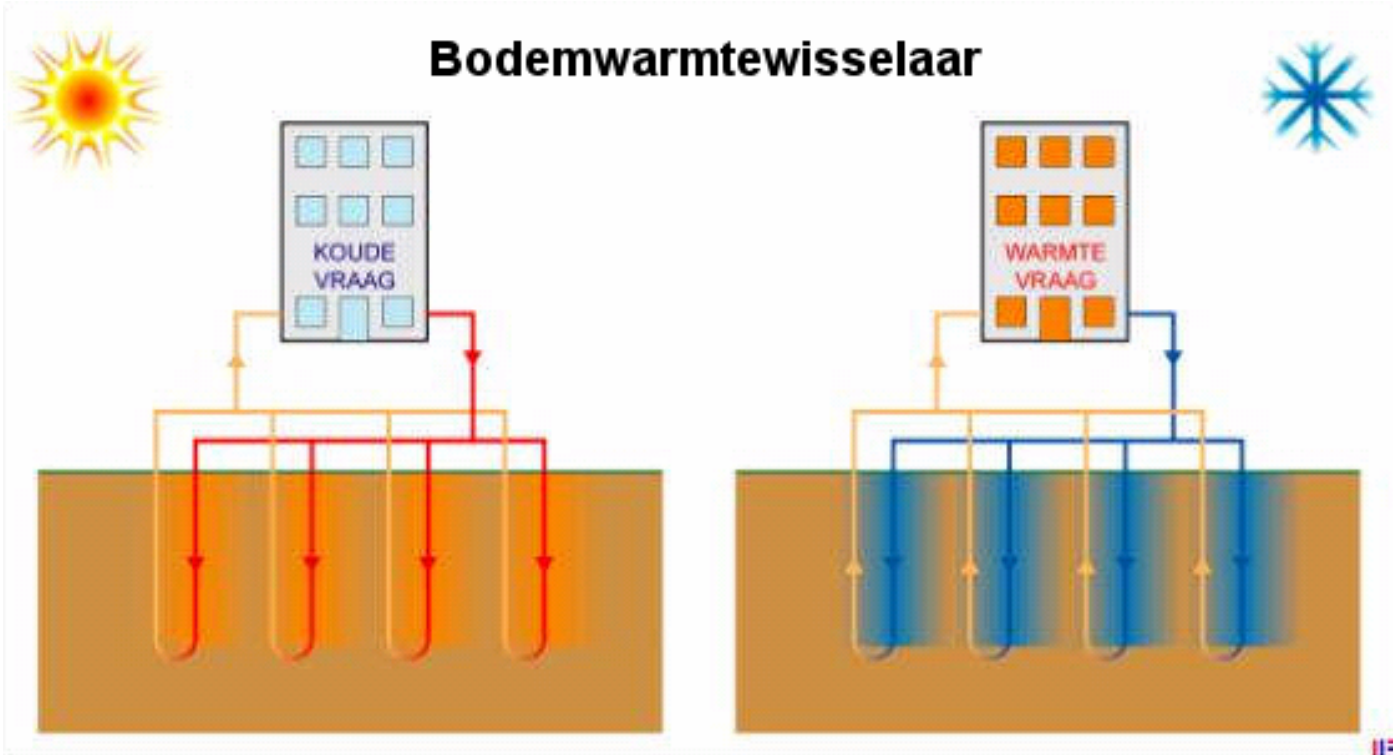
Limitation emissions of greenhouse gases

30% less compared to 1990



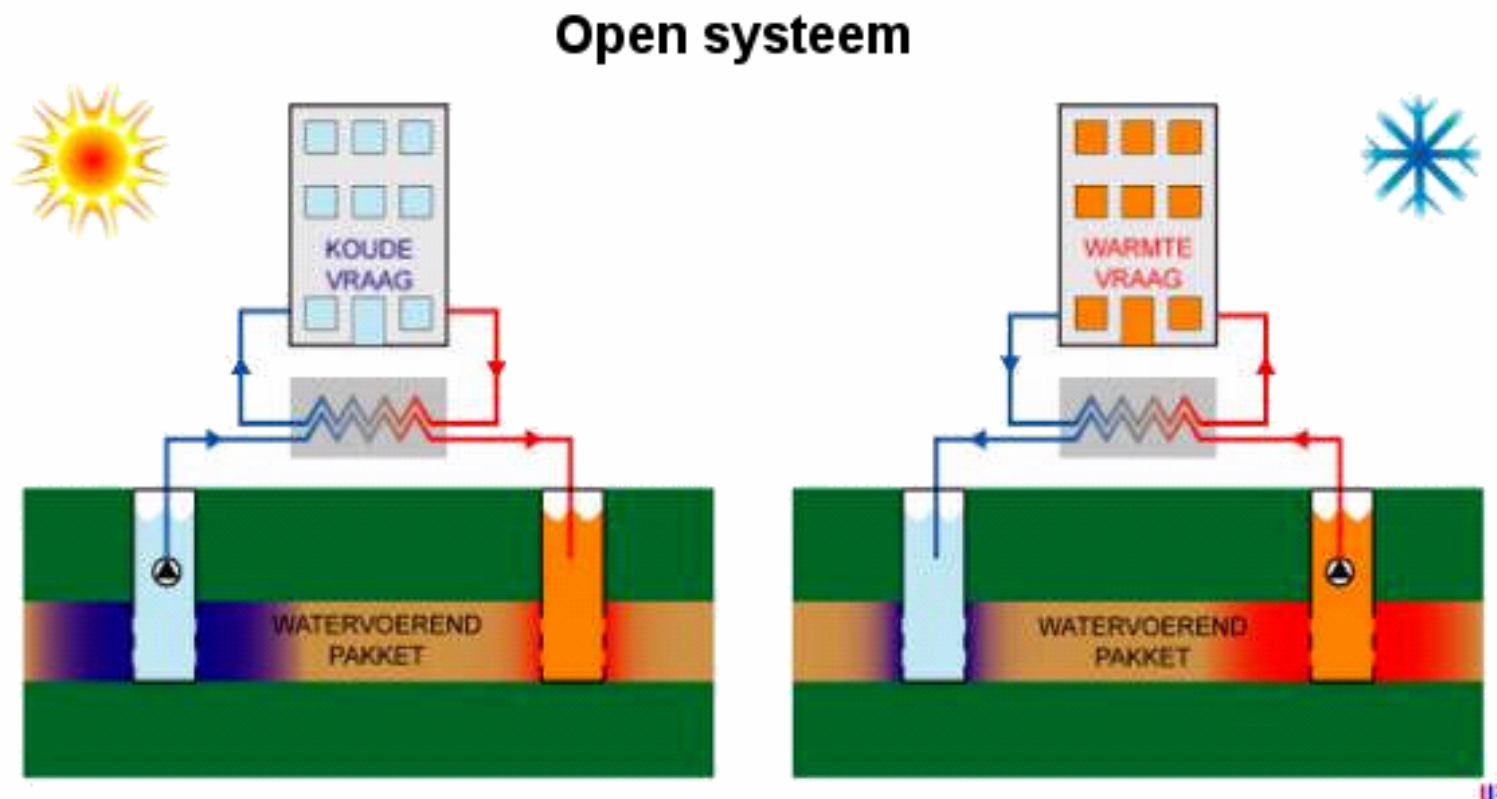


Closed loop system



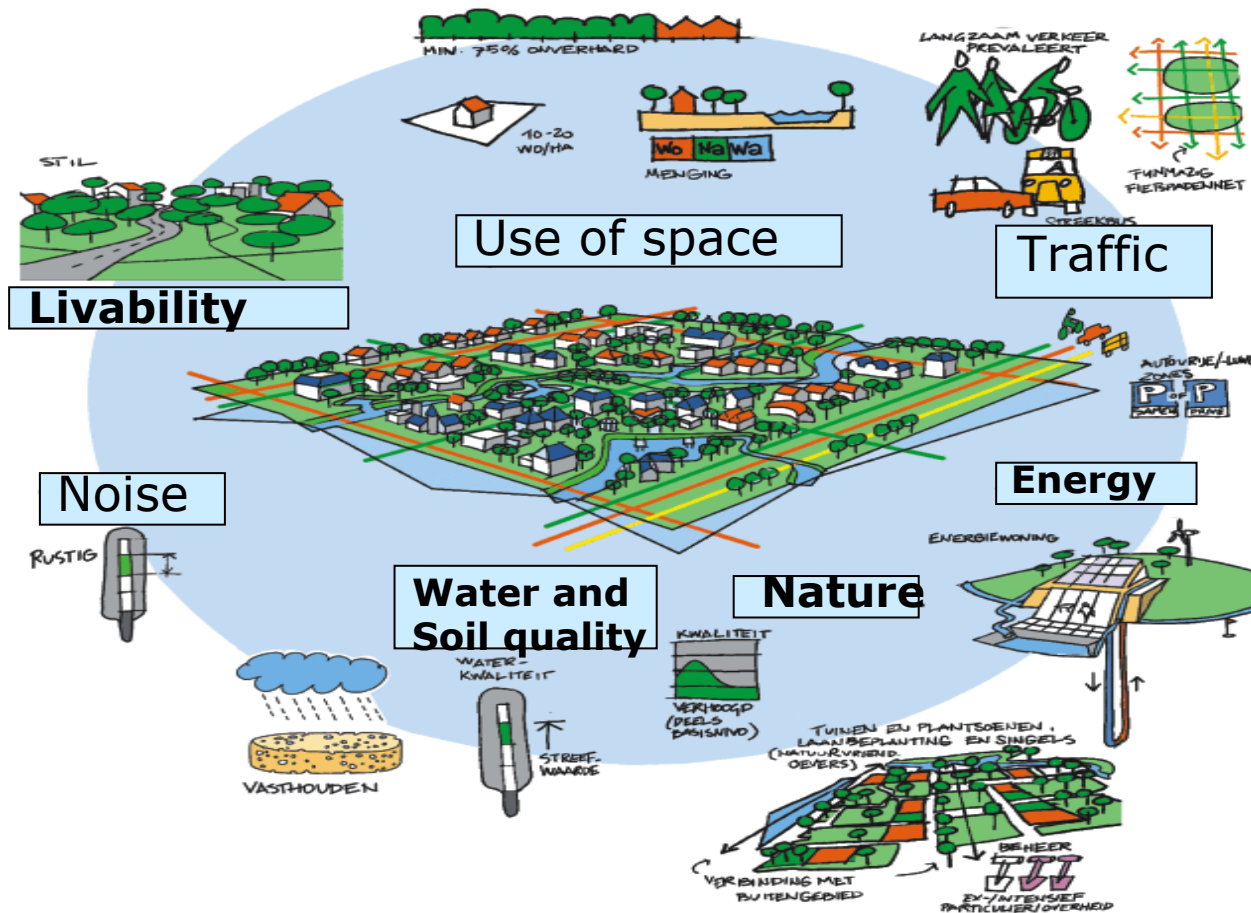


Open loop system



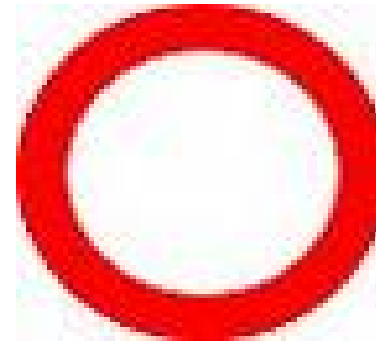


Efficient use of the subsurface



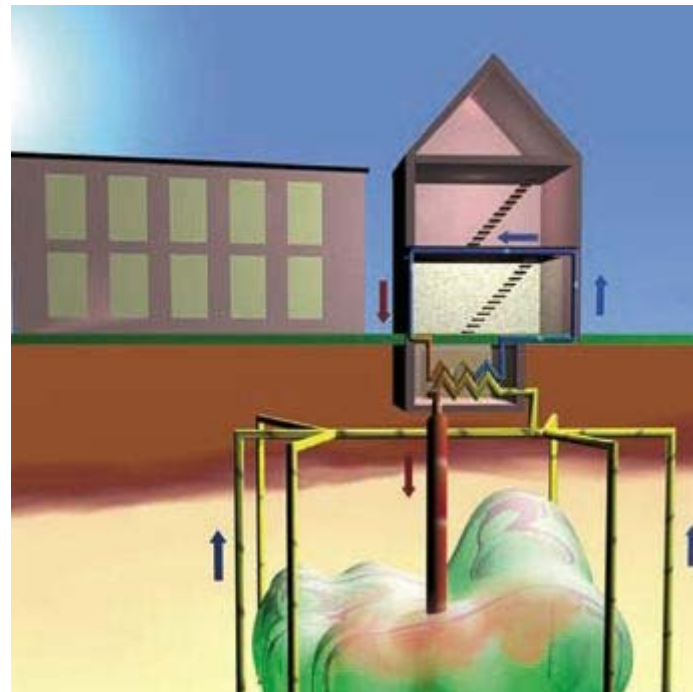


Open loop systems in contaminated soil: Forbidden





Developments



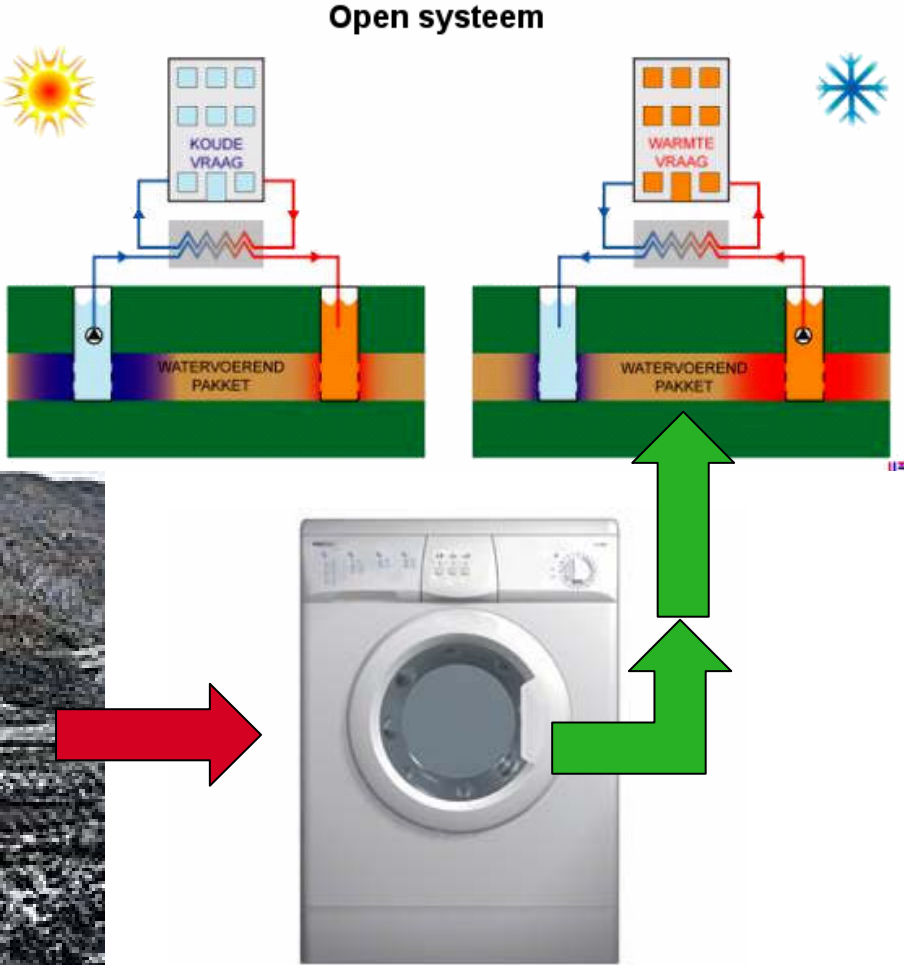


Combination of remediation and GSHP

Bio washer



Contaminated groundwater





Resume

The advantage is for the environment

- Heat and cold storage increases and the CO₂ emission decreases
- Quality is guaranteed
- The soil is using sustainable

Thank you for your attention