

Geothermal energy in industry – session 2

IF Technology
Rob Kleinlugtenbelt
r.kleinlugtenbelt@iftechnology.nl



GEOCAP
Geothermal Capacity Building Program Indonesia - Netherlands

Drill site



Well site



Drilling in urban area's



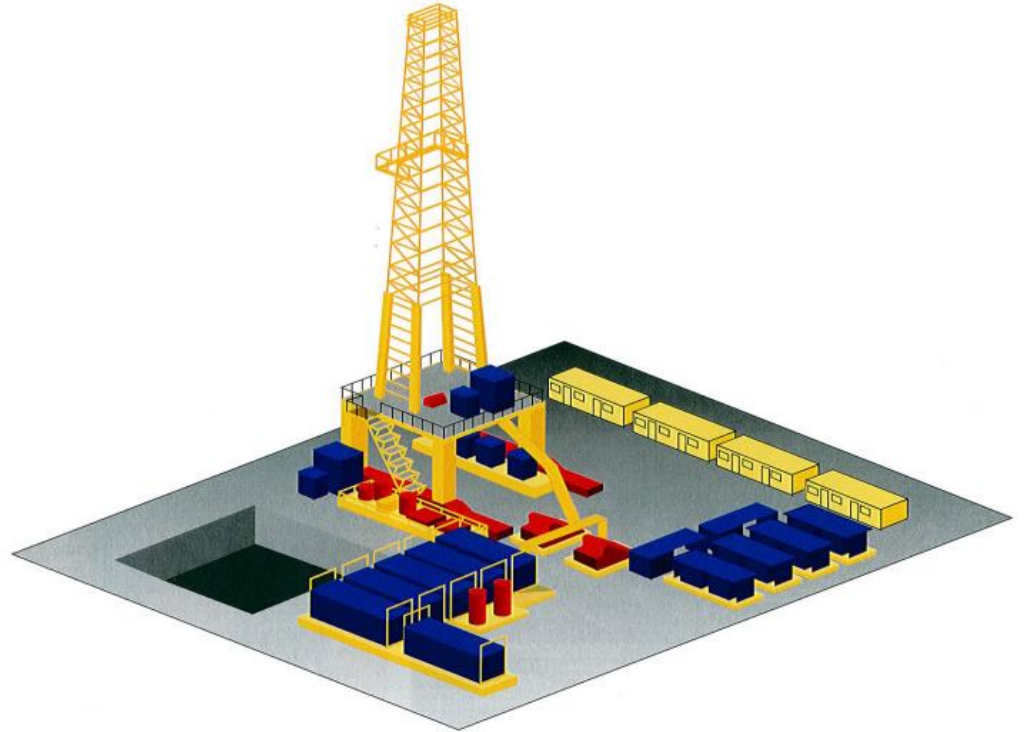
Optimizations

- Increase demand: collaboration
- Decrease CAPEX: slim holes
- Increase output: cascading/integration

CAPEX optimization

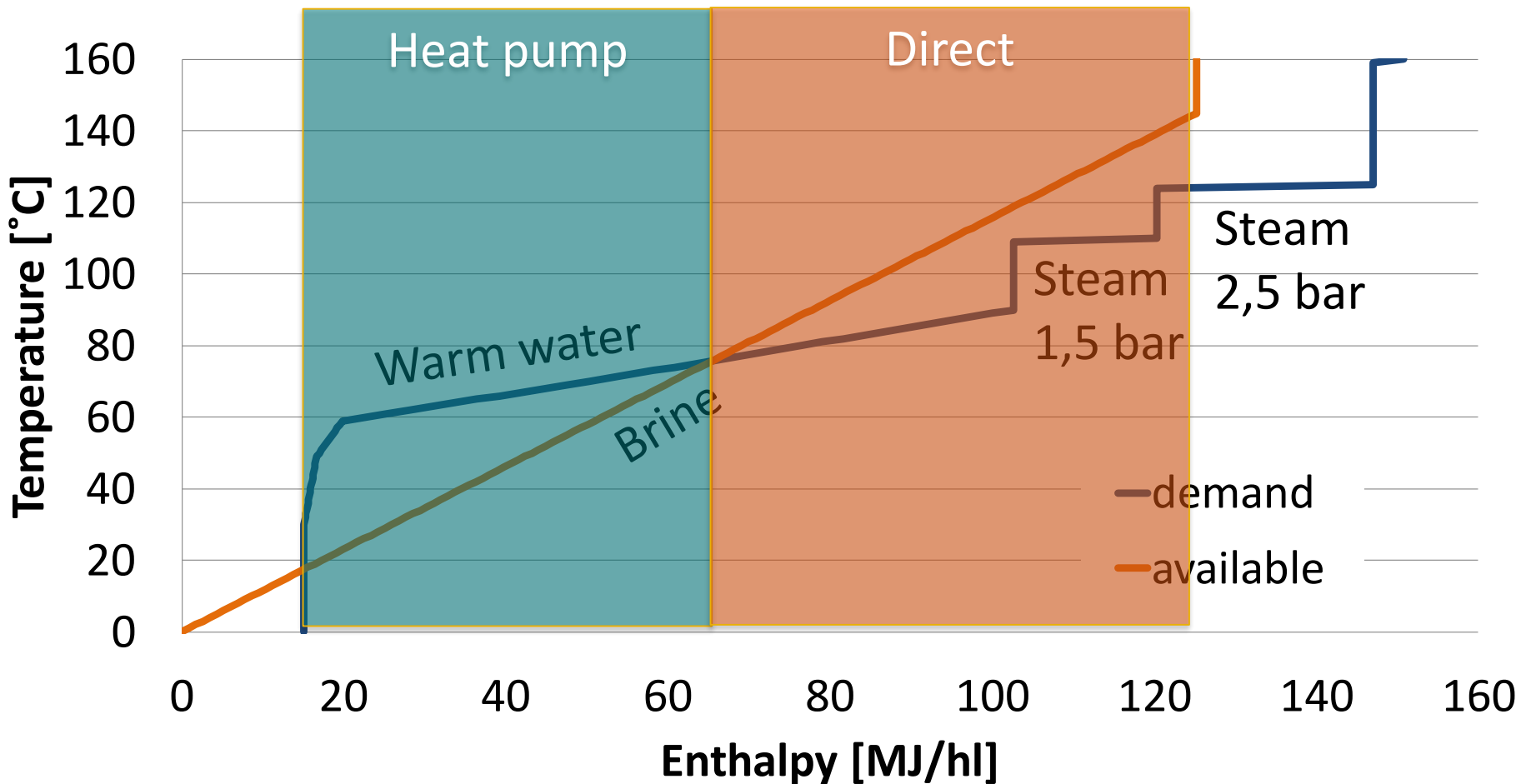


Slim hole
drilling rig



Conventional
drilling rig

Cascading / integration



Project planning electricity

Phase	1	2	3	4	5	6	7	8	9	10	11>
Peliminery survey											
Tendering											
Exploration											
Feasibility phase											
Expl. construction											
Exploitation											
Utilization											

 (Local) government

 Business entity



Questions

- Suitable processes?
- Sustainability targets?
- Collaboration other companies?
- Is heat responsibility of industrial estate utility?
- Current heat and steam production?
- Conditions for renewable investments?
- Interested in geothermal energy?
- Suggested next steps?
- Important barriers?