SCCN - Solar Chimney Competence Network

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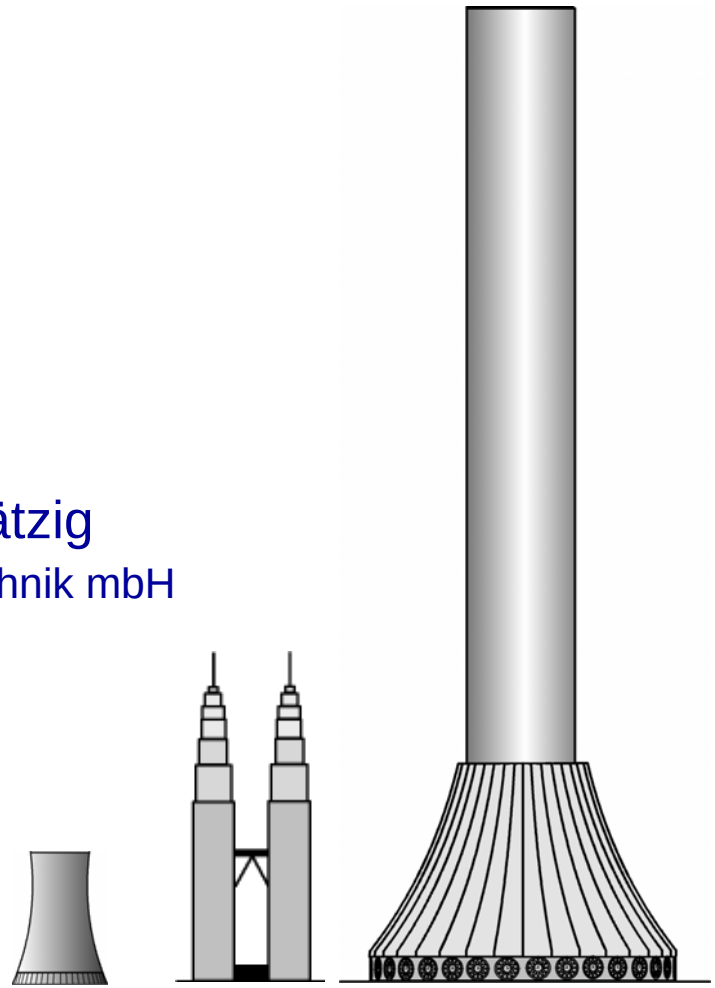


SCCN - Solar Chimney Competence Network

Experienced in
- ¾shell theory and numerical analysis
- ¾structural design and proof
- ¾buckling of shells
- ¾wind aerodynamics
- ¾seismic excitation
- ¾thermal effects

for
- ¾wind turbines
- ¾cooling towers
- ¾tanks
- ¾chimneys
- ¾bridges
- ¾power plants
- ¾stadium roofs

World Largest Cooling Tower Niederaussem: 200m

Completed RWE Coal-fired Power-Plant in 2002

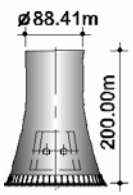
Source: RWE Energie Essen

Solar Chimney Project Arabia: Variants

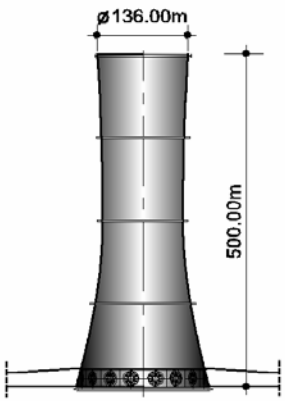
Variants for Solar Chimney Towers

acc. prefeasibility studies
performed by
Krätzig & Partner GmbH Bochum

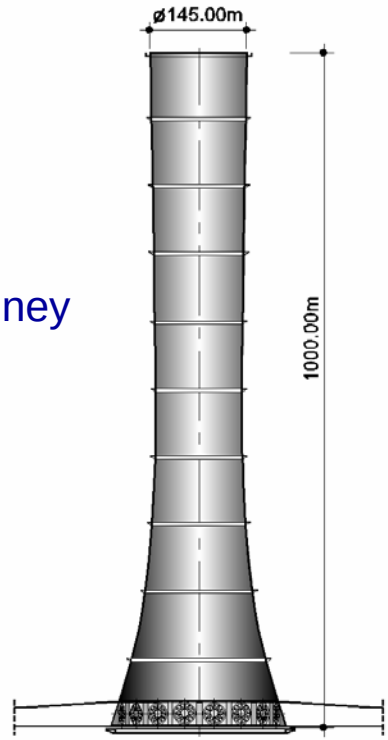
200m cooling tower
Niederaussem



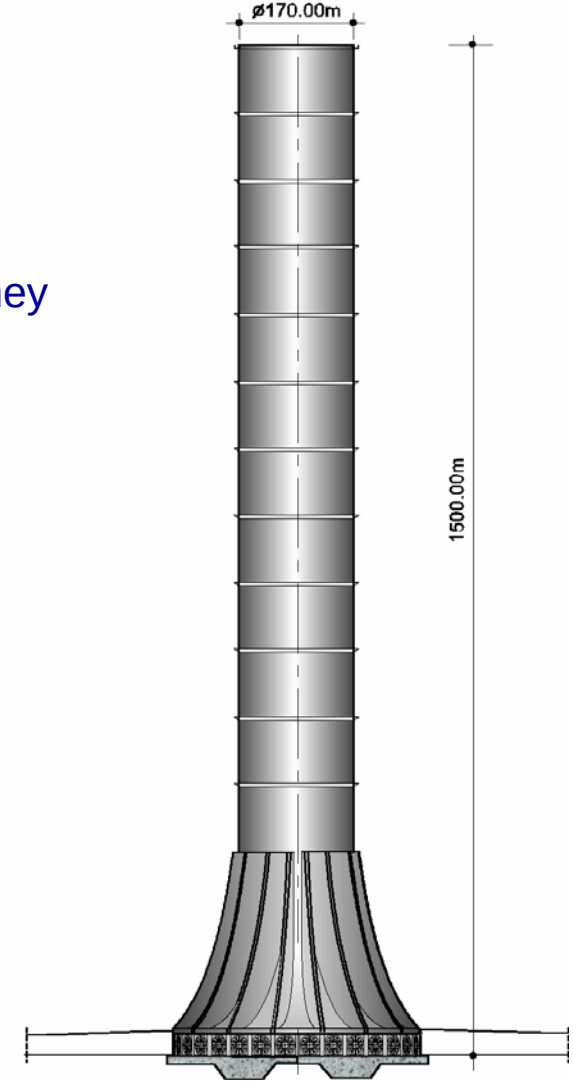
500m solar chimney



1000m solar chimney



1500m solar chimney



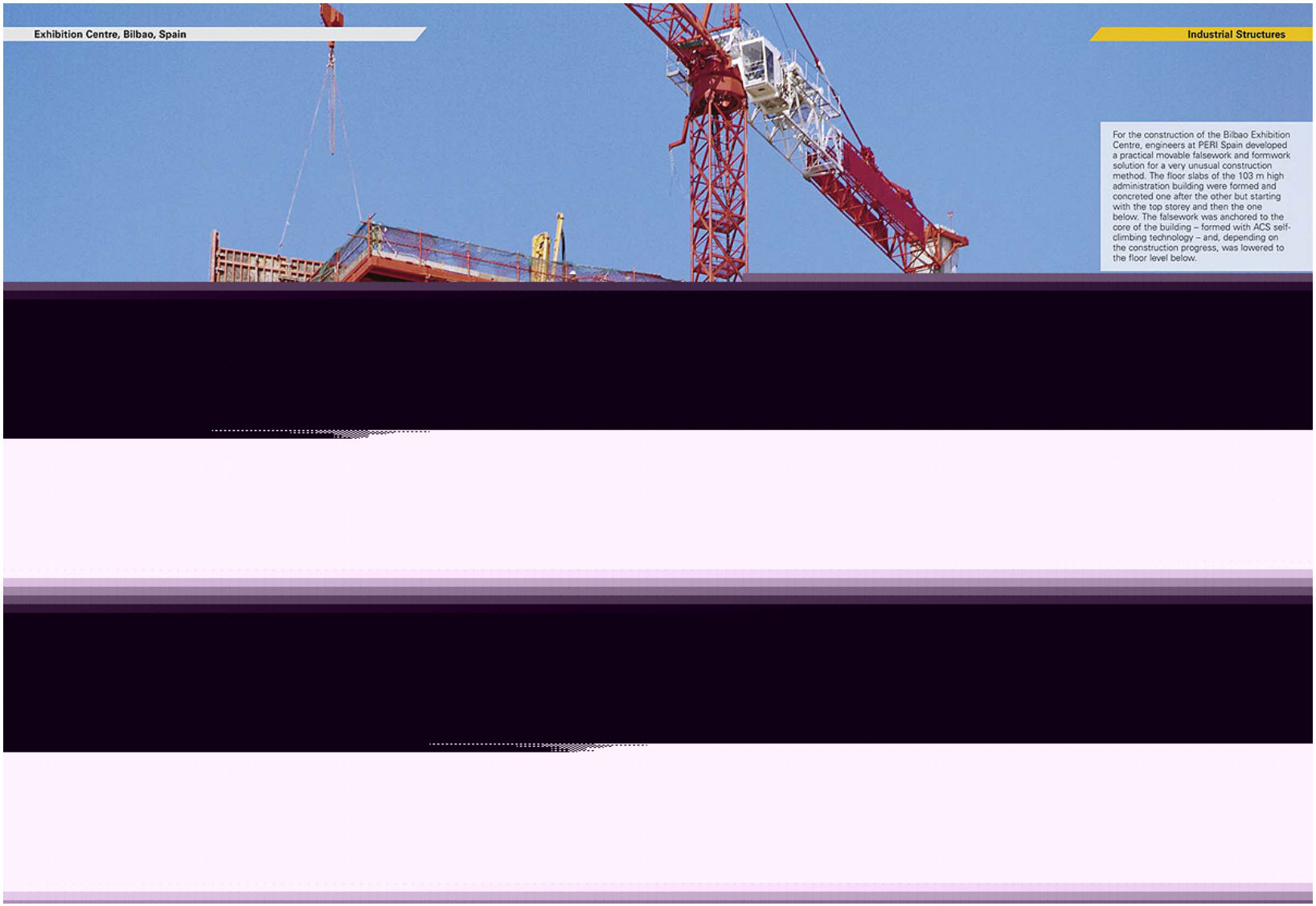
Central crane and climbing formwork

Source: Heitkamp, Herne

Climbing formwork (1 to 2 m per day)

Source: Krätzig & Partner, Bochum

Exhibition Centre, Bilbao, Spain



Source: PERI, Ulm