

*Cement and concrete are the
main pillars for building a
sustainable society.*

*The challenge is the CO₂-
footprint!*

Status report “Carbon capture at Norcem Brevik”

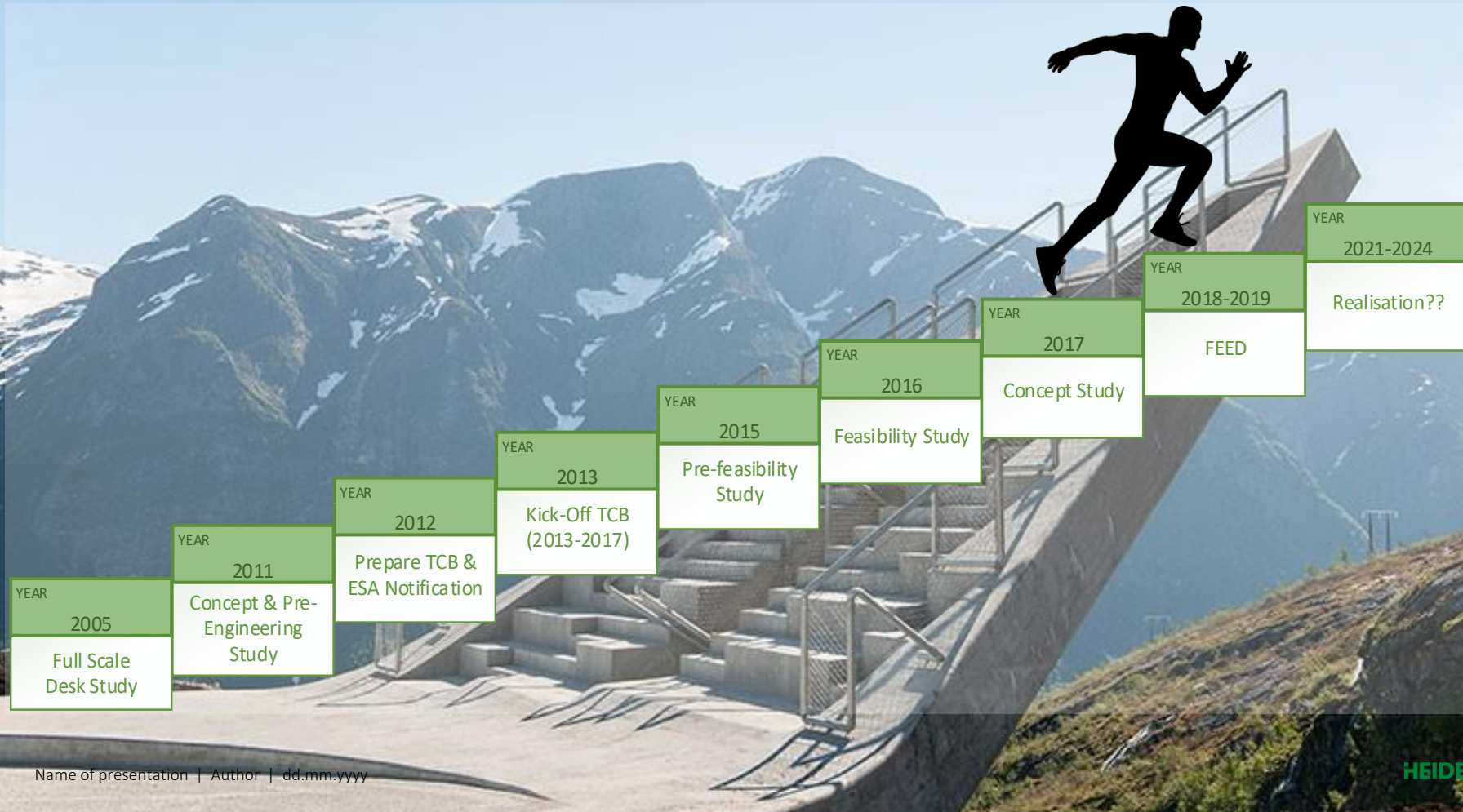
Per Brevik, Dir. Sustainability and Alternative fuels
HC NE



SUSTAINABILITY
COMMITMENTS

2030

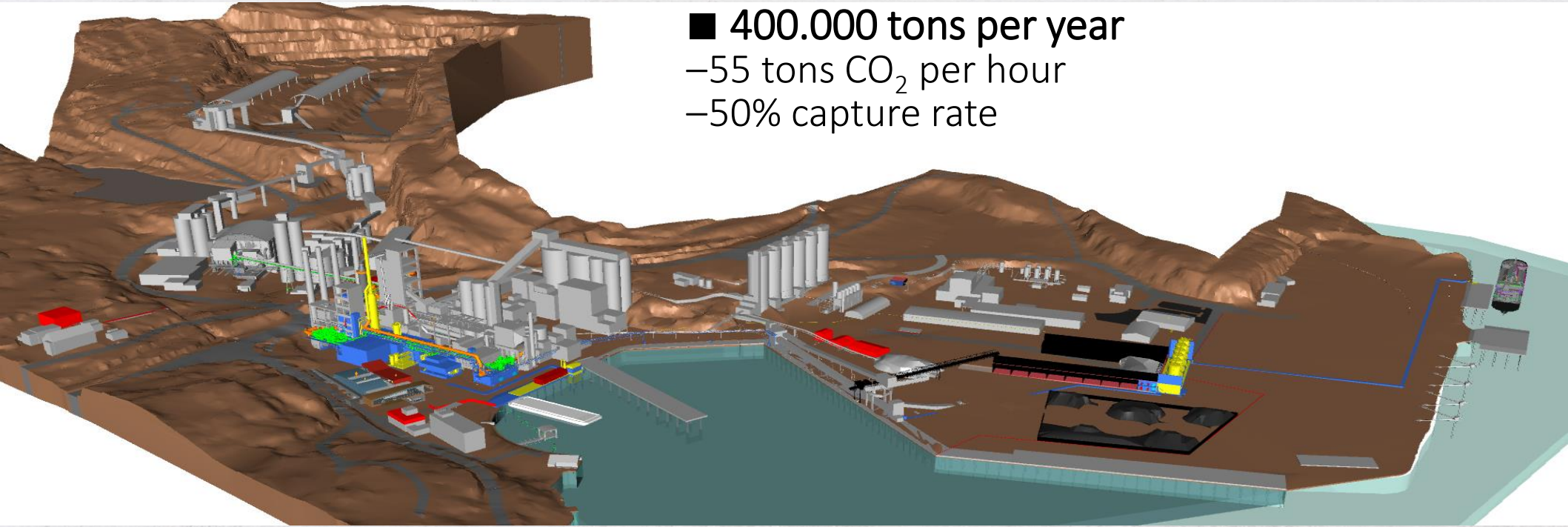
The «road» towards CO₂-capture in Brevik



CO₂ capture Brevik

Demonstration plant

- 400.000 tons per year
- 55 tons CO₂ per hour
- 50% capture rate



Status as per June-2020



Study reports submitted to Government

FINAL OFFER submitted 20 April

Ongoing process with third party verification and quality assurance

Final negotiations regarding funding with Government

Negotiations with main supplier/technology provider

Political process.

Internal approval in HC



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Brevik can be the first in a row of HC-projects ...

Three HeidelbergCement plants have launched CCS-development projects



Lixhe, Belgium.
LEILAC-project. Funded through H2020
Building pilot for Phase 2 test.
Capture 100 000 ton CO₂ / year



Slite, Gotland, Sweden
Feasibility study ongoing
Report in October.



Hannover, Germany
Involved in the Cemcap-project (H2020)
Feasibility study starting now

HC- involvement in CCS
for many years already:

- ECRA
- CEMCAP
- Oxyfuel-pilot
- Consortium for full-scale test of Oxyfuel

But we are dependent on new projects!



Herøya, Porsgrunn

In the «Roadmap for the process industry» CCS was presented as «THE SOLUTION, but ..

INFRASTRUCTURE is key; and the most important «take away» from the demonstration project

How can new industrial hubs/clusters be added (along the transportation route)?

There are important work ongoing among the process industry . Many clusters are on their way.

My first choice would be Grenland and the industry around Herøya. A perfect location close to seabed and pro-active and competent environment.



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In a nutshell

We are ready! And we need a decision in 2020!

- «The front runners» are crucial: Showing the way – realisation is possible and realistic!
- Based on the «Lessons learnt» and «Benefit realization» reports from the projects we have a lot of experience
=> We don't need to replicate earlier mistakes!
- We need a full-scale project to define the new basis for coming R&D projects



The background of the slide is a close-up photograph of several footprints pressed into a light-colored, textured surface, likely concrete or dry mud. The footprints are arranged in a path that leads from the top left towards the bottom right. Each footprint shows a distinct tread pattern, with some appearing more worn than others. The lighting creates soft shadows, emphasizing the depth of the impressions.

Our footprint
will be further
reduced

Thank you for your attention



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