



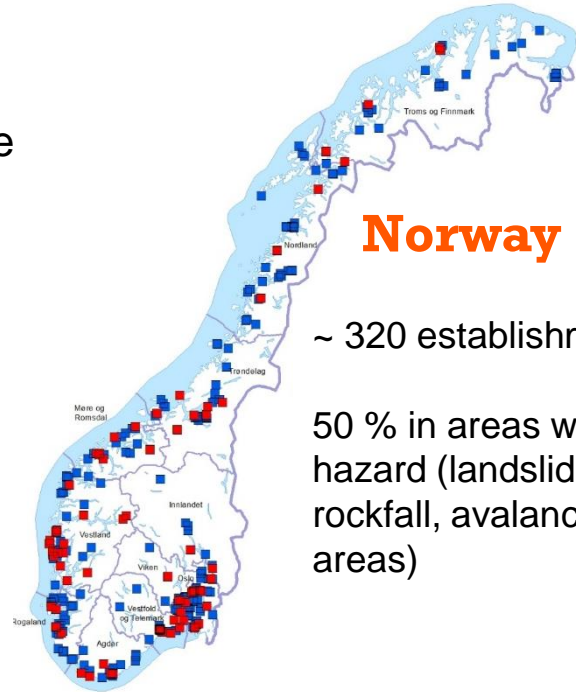
Norwegian Directorate
for Civil Protection

Natech guidance

Dag Olav Høgvold 29. November 2022

Climate change – increasing vulnerability to Natech

- Increasing intensity and frequency of extreme natural events.
- Increasing vulnerability of hazardous site



Norway Seveso sites

~ 320 establishments

50 % in areas with risk of natural hazard (landslide, flooding areas, rockfall, avalanches, quick clay areas)

Norwegian Natech guidance

- Published August 2022
- Describes why it is important for hazardous establishments to assess the risk of natural hazards.
- Provides information on the types of natural hazards that should be considered and where information can be obtained from.
- Points out the significance of climate change.
- Describes the steps such an assessment should include.

<https://www.dsb.no/veiledere-handboker-og-informasjonsmaterieell/veileder-om-vurdering-av-naturfarer-som-kan-gi-risiko-for-kjemikalieulykker-natech/>



Step 1 – Identify possible relevant natural hazards



Step 2 – Analyse the threats at the installation

- Equipment with hazardous chemicals
- Utilities, safety systems and communication



Step 3 – Identify and describe the Natech scenarios

- Analysis of the risk of Natech
- Assess possible concomitant or subsequent events



Step 4 – Limiting measures

- Preventive and consequence reducing measures
- Emergency planning



Step 5 – Post-accident activities and restart of installation

- Safe clean-up and start-up

Thank you for your attention!

Comments or questions?

[dsb.no](https://www.dsb.no)