

# Project: REINOKSVATN DAM

**LOCATION:**  
Sørfold county

**YEAR:**  
2017

**CLIENT:**  
Energy Norway and Statkraft

**SCOPE/PHASE:**  
Probabilistic analysis of stability

**PROJECT RESPONSIBLE:**  
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## PROJECT DESCRIPTION:

As a part of the overall project "Dam Safety in an overall perspective", the stability of Dam Reinoksvatn was examined with probabilistic methods.

Opposed to traditional deterministic methods, where the safety is proven by the use of safety factors, a probabilistic analysis determines the probability of failure directly by using the probability distributions of the underlying phenomena.

Dam Reinoksvatn was borderline stable, so it proved to be an interesting case for a study of whether probabilistic analysis have any practical application. The method documented a higher safety level than traditional methods, by using the knowledge about the existing dam.

