

Climate film >

Climate Adaptation in Norway

The climate is changing due to global warming. For Norway's part it will primarily mean higher average temperatures, more rainfall and more extreme weather. There are four areas in communities that will be particularly exposed to climate changes: buildings and works, water and sewerage, transport and agriculture. To be best possible prepared for the future it is therefore vital to adapt to the changes in the climate, and this should be an integrated element of municipal planning.

Assignments to complete before you see the film

1. How do you think the eco-system, agriculture, roads and buildings in Norway could be affected by climate changes?
2. Do you think Norwegian society is equipped to tackle more rainfall, extremes in weather conditions and rising sea levels? Validate your answer.

Assignments relating to the film

1. How will Norway's climate change in the future?
2. What parts of Norway will experience the biggest variation in rainfall toward the year 2100, and which region will experience least variation? Why do you think this will be the situation?



VARIATION IN RAINFALL TOWARD THE YEAR 2100
MAJOR VARIATION MINOR VARIATION

- Changes in the climate presents many challenges to the community. Prepare an overview of challenges and examples of adaptations by filling out the table below.

Community area	Challenges from climate changes	Examples of adaptations
Transport		
Buildings and works		
Water and sewerage		
Agriculture		

- Use the film or the photo below to explain what happened during the flood in Kvam in 2013.



- What adaptations has the municipality made in Kvam to safeguard against new damage from floods and landslides?
- Use a [flood zone chart](#) to find out if there is a danger of flooding where you live. Write a few lines about the extent of the hazard, and what could happen.
- Why is it important that municipalities prepare risk and vulnerability analyses in connection with climate changes?
- What is storm water, and why is storm water a bigger problem in densely populated settlements and towns/cities?
- Midgardsormen is a modernization of Oslo Water and Sewerage Works. Why is an upgrade needed of the old water and sewerage system?

10. Why is it important to have processing of new and improved varieties in agriculture?

Intensified assignments

1. Find out more about the consequences of climate changes and physical adaptation measures in your county. Go into klimatilpasning.no to find information and write a short article or information brochure on regional adaptation measures (see suggestion for a template on www.naturfag.no/brosjyre).
2. Challenges about changes in the climate will often occur because we have chosen unwisely or prioritized incorrectly in area planning or other community development.
 - a) Provide some examples of poor choices or incorrect prioritizing.
 - b) What do you think can be the reasons for poor choices or incorrect prioritizing?
3. Register locations where extreme weather has impacted us, and how this is experienced personally, through the activity Ekstremvær (Extreme Weather) on miljolare.no.