









## New topical issues

- Norwegian partcipation in developing the Sthokman field
- Floating nuclear power plants (onshore and offshore)
- Climate changes
- Transport of SNF along the Norwegian coast



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# Different hazards I

- Limited nuclear industry in Norway (Kjeller, Halden, Himdalen)
- Nuclear powered vessels
- Radioactive sources in use in Norway
- Orphan sources

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Malevolent use of radioactive material



### **Different hazards II**

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- Nuclear industry and waste repositories
   abroad
- Satellites or other spacecrafts with radioactive material
- Nuclear weapons

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# Scenarios and consequences Environmental Otars diffected area in Norway Ocal, regional/provincial or national Local, regional/provincial or national Estimated time before consequences occur E.g. time of transport of release from foreign site to Norway Environmental Other societal consequences Other societal consequences Particular consequences for Norwegian citizens and interests abroad

Scenario	Size of affected area in Norway	Est. time before consequences occur	Consequences			
			Human health	Environmental	Other societal consequences	Particular conseque for Norwegian citiz and interest abro
Foreign nuclear power pl	lants					
Severe event at Kola, Leningrad or Ignalina NPP, or NPP in Sweden, Finland, UK og Germany	National.	Few hours.	No acute effects in Norway, but may cause considerable stocastical effects. May cause considerable psychological effects	May cause considerable national failout. May have long-term consequences for the terrestrical environment	May have considerable consequences for national food production. May have considerable consequences for other industries. Will cause some public worty.	May cause consider acute effects and stocastical effects for Nonwegian citizens in the surrounding are Will cause consider psychological effect the surrounding are Nonwegian interests the area may be affected.
Severe event at other NPPs	National.	Several hours or days.	No acute effects in Norway, but may cause considerable stocastical effects. May cause considerable psychological effects	May cause considerable national failout. May have long-term consequences for the terrestrical environment	May have considerable consequences for local food production. May have considerable consequences for other industries. Will cause some public worry.	May cause conside acute effects and stocastical effects f Norwegian citizens the surrounding are Will cause consider psychological effect the surrounding are Norwegian interests the area may be affected.
Norwegian research reac	tors					
Severe event at Jeep II on Kjeller or the Halden reactor	Local.	Immediate.	No acute effects, may cause some stocastical effects among the nearby population. Will cause psychological effects.	May cause local fallout and long-term consequences for local environment.	May have consequences for local food production for a period of time. Will cause some public worry.	Insignificant.
Assault or plane crash directed towards Jeep II on Kjeller or the Halden reactor	Local or regional.	Immediate.	May cause some acute effects, may cause some stocastical effects. Will cause considerable psychological effects.	Will cause local and possibly regional fallout, as well as short- and long-term consequences for local environment.	May have consequences for local food production. Will cause public worry. May have other societal	May cause some psychological effect

