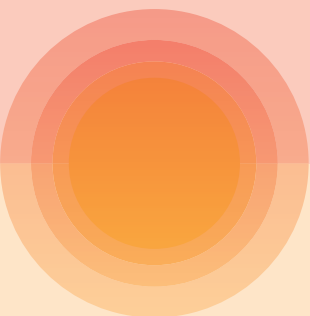


Increasing water scarcity in a changing climate

Impact of non-mitigated climate (+3 °C) vs mitigated climate (+1.5 °C) on northern and southern Europe

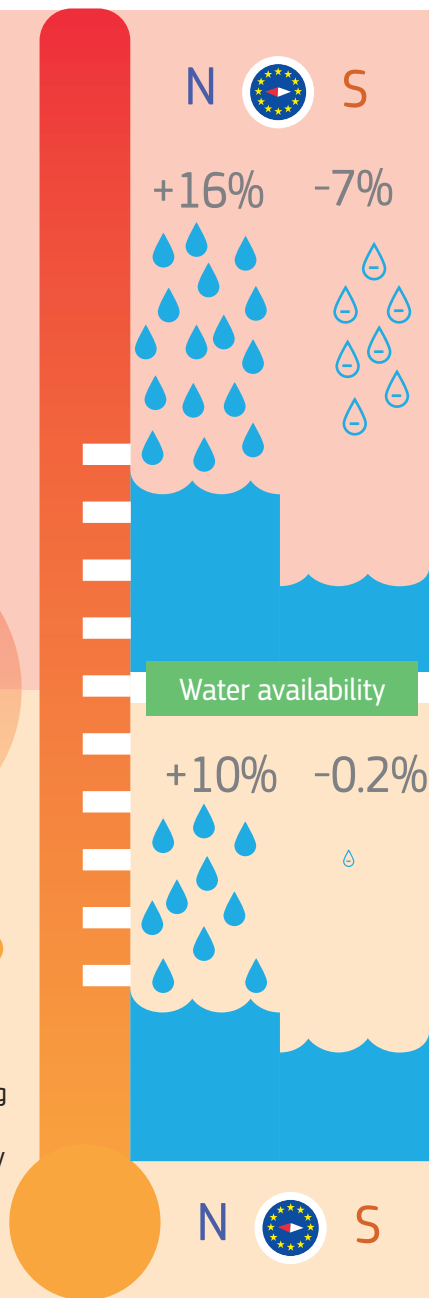
A 3 °C warming leads to more intense and widespread water scarcity

+3°



+1.5°

Mitigation to 1.5 °C warming limits the impact for the population and the economy



Effects

from 114 in present to 882 in present

No change



Billions € affected

Economic activity exposed to water scarcity*

*For industry sectors that rely on water, including manufacturing, mining, construction and services, assuming the population and economy as of today

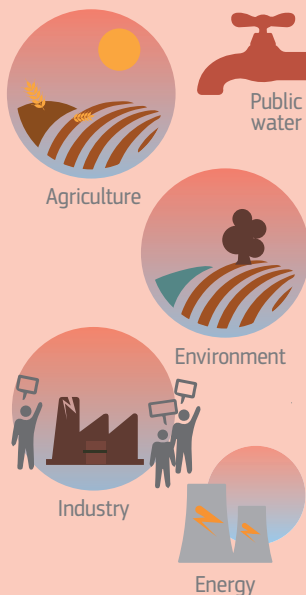
Billions € affected

No change



from 114 in present to 134 in present

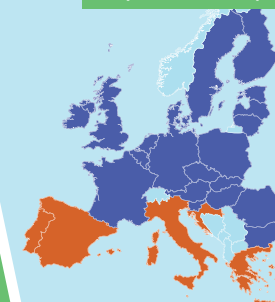
from 882 in present to 134 in present



Sectors most affected



Population exposed to water scarcity



Northern and central Europe (N)

4 million people are exposed to water scarcity in the present climate and there is no change at 3 °C and 1.5 °C global warming, as although water availability increases across the region on average, it decreases in some sub-regions.

Mediterranean (S)

48 million people are exposed to water scarcity in the present climate. 3 °C global warming will expose an additional 13 million people, compared to an additional 7 million when mitigating to 1.5 °C. Furthermore, water scarcity becomes more intense for all people exposed.

3 °C

No change

from 4m in present to 13m in present

+13m

1.5 °C

No change

from 48m in present to 7m in present

+7m

Adaptation

To reduce the impacts, there is a need for:

- increased water efficiency in irrigation
- water savings in public sector
- improved water cooling techniques
- shift to drought resistant crops
- consideration of re-usage of treated waste water
- awareness raising