

Climate scenarios

Climate scenarios describe different ways in which the climate could change as a result of rising greenhouse gas emissions. They serve as an important basis for climate change mitigation and, above all, climate change adaptation. Selecting and interpreting the scenarios correctly is a complex process and varies depending on the baseline. Our broad range of experience and expertise allows us to support our clients according to their individual situations and needs.

The question of how the climate will change in a particular region is the starting point for many climate change adaptation projects. The most important basis for projecting these changes are climate scenarios. But where can the most reliable information be found? Which data should be used? Ultimately, the scenarios differ depending on the assumptions regarding the development of greenhouse gas emissions, as well as on the particular climate model used. How should the scenarios be applied and how should the uncertainties be handled? Where should we draw the line between natural variability and climate change?

The sheer number of questions is an indicator that selecting and interpreting scenarios is more challenging than it appears at first glance. Scenarios have to be specifically tailored to the project baseline.

We are familiar with the diverse requirements of users in different sectors such as energy or transport, as well as the physical interrelationships within the climate system. We can therefore help you apply scenarios or make sense of the complex results of climate research in relation to your own needs.