



Making climate information tangible - GERICS Climate Impact Fact Sheets and Focus Paper for the energy sector

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The energy sector relies on climate information to make sustainable, forward-looking decisions. Pressing issues include, for instance, demand volatility due to extreme weather events or long-term planning insecurity due to possible shifts in available wind speeds or cooling water. However, the industry is often lacking capacity to process all available climate-related material and to select the facts specifically relevant for them. With the GERICS Climate Impact Fact Sheet and the Focus Paper, also developed by GERICS, this issue is addressed. Both formats are well-established, developed in collaboration with users, and emphasize the delivery of information in an extremely condensed way, concentrating on the central climate change-relevant facts while being tailored to a specific target audience and its interests.

In the context of the Copernicus Climate Change Service (C3S) project “Clim4Energy”, this approach is being extended specifically to the energy sector. A Focus Paper will summarize highlights of climate change impacts and the benefit of integrating climate information in adaptation strategies. A series of fact sheets will be developed, describing climate indicators for various energy industries, such as wind power, hydropower, bioenergy and oil and gas. Additionally, fact sheets about the impact of freezing rain on infrastructure as well as climate change-induced challenges for the demand – generation balance are prepared. In the effort to create one standardized format for the entire series, scientific content, layout, structure and key questions addressed per section have to be harmonized. The obstacles and challenges arising as a consequence during the development process will be pointed out. The benefits of the focus paper and the fact sheets and their simple and intuitive use will be displayed based on examples.