Sustainable Solutions - Research Domain 3

The Research Domain *Sustainable Solutions* explores the full spectrum of options for climate change mitigation and advises climate policy-makers, based on original research. Our analysis covers climate protection scenarios, the associated transformation of energy and land use, as well as its design and implementation through instruments and institutions. Strategies to adapt to climate change become an increasingly important part of the solution, and RD3 endeavours to analyse the scope for adaptation on a global scale.

Our research objectives are:

- Identifying and evaluating transformation pathways that accomplish the necessary reduction of greenhouse gas emissions for achieving long-term climate protection, with a focus on the transition of the energy and land-use system,
- Developing a better understanding of regulatory regimes that implement the necessary mitigation measures on all levels (regional, national, international, global), and
- Evaluating strategies for global adaptation to climate change, with special focus on the global production and supply network of goods and services.