

Identification and measurement of social indicators for the sustainability of selected Swiss electric power systems

Short description

The project "The identification and measurement of social indicators for the sustainability of selected Swiss electric power systems" is financed by the Swiss electricity company AXPO. The aim of the project is to identify within the framework of a comparative analysis of electric power production systems the implications for sustainability by using accepted, comprehensible, and agreeable indicators and to quantify them for the years of 2000 and 2030.

The project shall provide a decision basis for the evolution of an energy supply, which is sustainable not only technically but also economically and socially. The task of DIALOGIK in this project is to work on the social indicators of sustainable energy systems.

The project is divided into three work packages. First, suitable indicators for the operationalisation of the social sustainability of energy systems need to be identified and selected. In a second step, each indicator will be measured for the year of 2000 and the data extrapolated for the year of 2030. In a third step, the measured indicators in each case will be provided with a weighting factor in order to be able to evaluate different options on the basis of the social indicators.

Research methods

For the measurement and extrapolation of the social indicators three different research methods will be used:

- *Desktop Research*: Includes the collection and analysis of all available data as well as the insertion of the data into a scale, which allows for a comparative assessment.
- *Primary data collection*: Where such data neither exist nor are available, corresponding data will be collected through interviews with experts (estimates and empirical values). In addition, analogue data sets from other countries or other sites will be included.
- *Group-Delphi processes*: For the extrapolation and data collection of data which are important but cannot be measured quantitatively and directly Group-Delphi processes will be organized. By means of this method expert estimates can be calibrated and, within the boundaries of given possibilities, controlled regarding reliability and validity.

Duration

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Project leader:

Prof. Dr. Ortwin Renn

Senior researchers:

Jürgen Hampel, Ph.D.

Wolfgang Weimer-Jehle, Ph.D.

Researcher:

Diana Gallego Carrera, M.A.

