











Persuading users to align energy consumption with green power availability and grid status



The backend:

- Receives forecast data on grid status from grid operator
- Alternatively an estimation for green power availability is calculated based on weather forecast data provided by a data service
- Processes data for forecasting
- Data is updated every 6h in order to avoid frequent changes in the forecast

MOTIVATION

Using energy at the right time to achieve positive effects for the environment by providing access to highquality forecasts about the future status of green energy supply and grid capacity.

DESIGN SOLUTION

The FORE-Watch (Forecast Of Renewable Energy - Watch, figure left) provides unobtrusive access to a forecast of green energy availability or alternatively grid status for the near future.

A detailed forecast for the next hour which differentiates data into 3 subcategories (different shades of red, yellow or green) is shown as a colored circle on the outer rim of the clock face. Forecast data for the next 24h is shown on a timeline using a trafficlight scheme. Statistics on past energy consumptions are available (figure left bottom).

The ambient display a regular Android tablet PC can be integrated into the consumers living space.

SYSTEM OVERVIEW

The display is connected via Internet to the system backend.





