# **NRP 71**

# Households

## **Managing Energy Consumption**

The role of social information, incentives and habits in household electricity consumption

## **Overview**

#### **Energiewende 2050**

End nuclear power in Switzerland by 2050

Requirements

- Improvement of energy management
- More efficient energy use in households

sustainable energy

**Existing** economic research

- Focus on price incentives
- Information provision as a new alternative

Results

- Rather inelastic prices
- Higher prices also hard to
- (so far) impact of information small given the cost
  - cal result: -0.3 kWh per day

### The behavioral economics approach

The role of social information, biases and incentives

**Behavioral** obstacles and chances

#### Biases

- Salience
- Status quo bias

#### Altruism

- Willingness to conserve environment at cost
- Social preferences

Approaches solutions

Nudges and impulses to break biases

- Specific, disaggregated, and playful information more effective Positive mechanisms

This project's approach

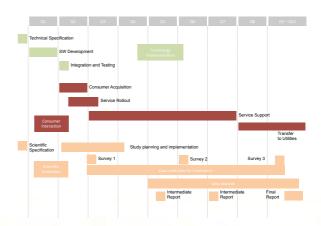
- Use existing smart metering infrastructure
- How can positive mechanisms be recruited through smart metering?

  Does this make the behavioral responses stronger?

#### The experimental design

	Control Group	Individual Feedback	Bonus Contract	Social Information
Profile, Hints, Forecasts	no	yes	yes	yes
Efficiency Bonus in year 1	no	no	yes	no
Profile, Hints, Forecast; comparison to partner household	no	no	no	yes

#### **Project time line**



## Partners and Collaboration

#### RWE (Germany): Scientific evaluation of Smart-Metering rollout

At least 1000 households will participate in RCT: testing disaggregated feedback and social information using BEN Energy platform.

#### **BEN Energy**

Collaborate to develop research platform

#### Collaborations in Switzerland

- Notoriously difficult to find
- New recruitment push this spring. PLEASE HELP!

## **Energy Turnaround**

#### We improve energy efficiency...

### Contact