

through behavioural science

NUDGE is a project funded by the European Horizon 2020 programme that aspires to systematically assess and fully unleash the potential of behavioural interventions towards achieving higher energy efficiency, paving the way to the generalized use of such interventions as a worthy addition to the policymaking toolbox.

The project







- Energy use scenarios (e.g., PV production for EV charging, demand response for natural gas),
- Platforms to make the interventions operational (smart mobile apps, dashboards, web portals, educational material and intergenerational learning practices).

Our pilots



Interdisciplinary project-based education on home energy consumption for children in Belgium



Efficient control of heating and hot water preparation for natural gas boilers in Greece



Optimization of electric Vehicle charging with self-produced PV power in **Germany**



Healthy homes for long-lasting energy efficiency behaviour in Portugal



Promoting distributed selfproduction for local energy communities in Croatia

Work steps & objectives



NUDGE is based on the application of behavioural science principles to develop a mixed approach for analyzing consumer profiles, designing energy efficiency interventions tailored to individual psychological and contextual variables, by leveraging digital platforms and data analytics, and evaluating their behaviour change potential.



Once the behavioural science inspired framework is established, the pilot work starts with trial setups, towards testing and evaluating the designed interventions through trials engaging consumers across multiple energy scenarios, under real-life conditions.



In order to encourage change, a digital approach (eg. smart meters, thermostats, mobile applications) will be applied, which enables energy consumers to actively and efficiently monitor and manage energy consumption, as well as education for the best possible application and adoption of new habits.



Finally, NUDGE will combine all work inputs to provide a consolidated view of the pilots' outcomes and translate them into recommendations for different stakeholders, including policy and decision-makers, energy and technology providers (e.g., smartphone app designers), energy communities and consumer associations. Recommendations, on the design and impact of behavioural energy interventions, will foster investments in energy efficiency improvements.

Nudges?

Nudging is a soft push that can make people act or react – and consume less energy. Nudges can be classified into 6 categories.

FACILITATING NUDGES

by diminishing the

CONFRONT NUDGES Nudges that seek to prevent an unwanted behaviour by instilling doubt about it

SOCIAL INFLUENCE NUDGES

REINFORCEMENT **NUDGES** Nudges that reinforce

behaviours

FEAR NUDGES

DECEIVE NUDGES

Nudges that favour desirable behaviours by deceiving users' perception about alternatives

Project partners and contact

10 partners from 7 European countries implement and evaluate different behavioural interventions for energy efficiency across 5 pilots in different EU states.



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