Achieving the full energy transition potential calls for a paradigm shift, and many solutions are investigated to involve many people and support them in reducing their energy consumption. Reducing energy consumption requires behavioral changes, from behaviors when using heaters and electrical appliances, to behaviors that contribute to the energy inefficiency of our homes.

NUDGE will study, test and evaluate different behavioral interventions for energy efficiency, paving the way for new policies and human behaviour.

The designed interventions are compared against traditional ones in pilots in Greece, Belgium, Germany, Portugal and Croatia, with diverse and innovative:

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

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 policy-making toolbox.

Find out more on www.nudgeproject.eu!
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 (e.g., 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.

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**
  - Nudges that facilitate desirable behaviours by diminishing the physical or mental effort of individuals

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

- **SOCIAL INFLUENCE NUDGES**
  - Nudges that draw on humans’ desire to comply with what they perceive as others’ expectations from them

- **FEAR NUDGES**
  - Nudges that attempt to generate fear and uncertainty

- **REINFORCEMENT NUDGES**
  - Nudges that reinforce behaviours

- **DECEIVE NUDGES**
  - Nudges that favour desirable behaviours by deceiving users’ perception about alternatives

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