
Behavioural insights as part of a policy mix for behaviour change and decarbonisation

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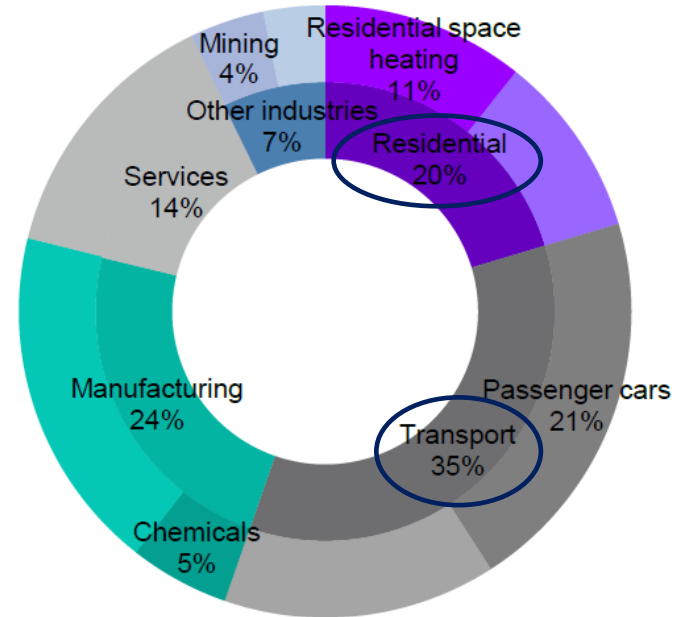
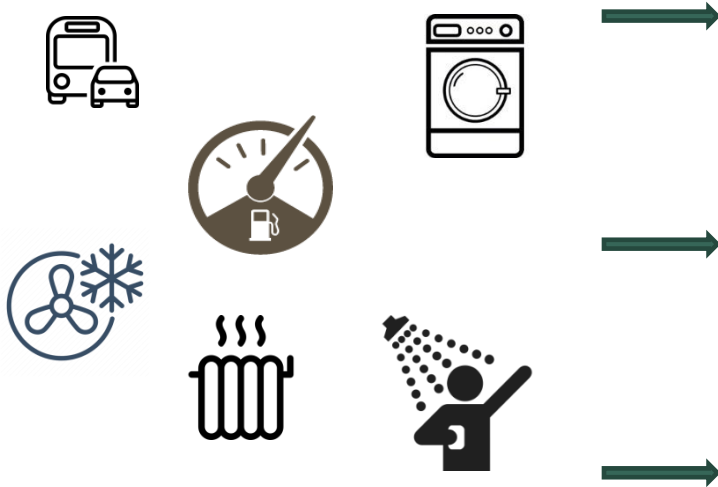
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Session: Behavioral innovation for a decarbonized society



DAILY CONSUMPTION PATTERNS HAVE IMPORTANT ENERGY IMPLICATIONS

Largest energy end uses by sector in selected IEA countries, 2018



Note: selected IEA countries. Data for 2018.

Source: IEA(2020), [IEA Energy Efficiency Indicators](#)



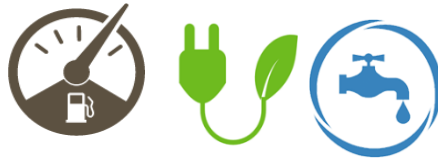
ACHIEVING CARBON NEUTRALITY REQUIRES LARGE-SCALE CHANGES IN HOW WE CONSUME AND PRODUCE EVERYTHING

What changes are needed in individual and household behaviour and investment?

*Investment in more
efficient housing
and transport
options*



*Efficient resource use:
fuel, power, water*



*Low-carbon mobility:
walking, cycling, public
transport*



HOW CAN BEHAVIOURAL INSIGHTS INFORM POLICY-MAKING FOR SUSTAINABLE BEHAVIOUR CHANGE?

1. Identify **drivers** of individual behaviour



What (behavioural, market, policy) mechanisms affect **energy consumption** and associated decisions?

2. Identify **barriers** to sustainable behaviour



What (**behavioural, market, policy**) **barriers**

- ...prevent **flexible and efficient energy use**?
- ...hinder **investment** in energy efficient renovations, renewable energy, electric vehicles?
- ...block the uptake of **sustainable mobility**?

3. Shape **policy solutions**:



- **Price signals:** environmental taxation, energy price design, emissions trading...
- **Regulation:** fuel and energy efficiency standards...
- **Information** provision and **other behavioural interventions** ('nudges')



BARRIERS AND DRIVERS OF SUSTAINABLE ENERGY CONSUMPTION AND INVESTMENTS ARE COMPLEX

Behavioural mechanisms

- Habits
- Lack of awareness
- Social norms
- Time inconsistency
- ...

Policy misalignments

- *Unpriced environmental externalities*: missing or low carbon prices; inconsistent energy taxes...
- *Environmentally harmful incentives*: tax credits for corporate cars; fossil fuel subsidies
- ...

Market / context features

- Complex energy price design and energy bills
- Urban design and infrastructure: bike lanes, public transport frequency...
- Not-yet-mature markets for sustainable options (efficient housing...)



Behavioural insights can help, but we cannot expect behavioural interventions *only to solve everything!*



THE URGENCY OF CLIMATE ACTION REQUIRES A BROAD POLICY MIX TO SUPPORT BEHAVIOUR CHANGE

Price signals

- Environmental taxation, including carbon taxes / carbon emissions trading
- Energy price design,
- Removal of environmentally harmful subsidies
- Urban policies: pollution pricing and congestion pricing

Regulation

- Fuel and energy efficiency standards
- Phase-out date for fossil-based technologies: ICE cars, gas boilers...
- Urban policies: limited traffic zones, stricter speed limits

Information provision and other behavioural interventions ('nudges')

- Labelling: energy efficiency, fuel efficiency, sustainable product sourcing...
- Feedback provision (from energy utilities): smart meters, home energy reports
- Smart defaults for product specifications and standards

Insights from behavioural sciences can inform design of all policy efforts



THANK YOU

About behavioural insights for energy policy:

- IEA (2021), [The Potential of Behavioural Interventions for Optimising Energy Use at Home](#)
- IEA and Users TCP (2020), [Behavioural insights and demand-side energy policy: an environment scan](#)
- OECD (2017), [Tackling Environmental Problems with the Help of Behavioural Insights](#)

