# Green Transition For Vulnerable Households? Insights From Behavioral Science On What Works (And What Doesn't)

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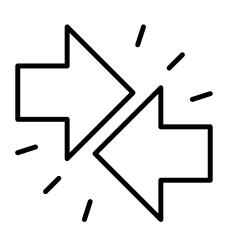
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### **ENERGY POVERTY CHALLENGE**

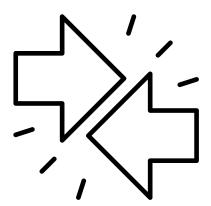
Low-income households and enterprises tend to have higher energy needs due to low energy performance of their dwellings.



At the same time, it's harder for them to prioritize energy saving among their more immediate concerns.

### **POLICY CHALLENGE**

EU Social Climate Fund to be launched in 2026. Using ETS2 revenues to support households & micro-enterprises in energy/ transport poverty.



Policy-makers and academics attest to the difficulty of getting citizens to apply to social funding programs.

As a result, not many households in energy poverty are likely to apply for the available grants.

The purpose of this paper is to provide policy-makers with actionable insights on how to design and implement **grant schemes** funded by the **EU Social Climate Fund** that will start in 2026, with a focus on effectively reaching households vulnerable to **energy poverty**.

How can policy-makers ensure that, for once, this funding reaches the intended recipients in need?

Why is it harder for financially-constrained people and enterprises to make use of these schemes?

## How people decide

Loss aversion
Framing effects
Bounded rationality
Social norms
Hyperbolic discounting
Paradox of choice
Intention-action gap



1/ Scarcity impairs cognitive ability and accentuates short-term thinking

2/ Hassle factors and reward uncertainty significantly inhibit action

3/ Presentation affects ease of decision-making and likelihood of action



## 1/ Scarcity impairs cognitive ability and accentuates short-term thinking

- Tunneling
- Cognitive overload
- Hyperbolic discounting



# 2/ Hassle factors and reward uncertainty significantly inhibit action

- Procrastination
- Uncertainty



- Loss aversion
- Stigma
- Social norms
- Choice overload

3/ Presentation affects ease of decision-making and likelihood of action



- Grant scheme: "Encouraging the Use of Renewable Energy Sources and Energy Saving in Residential Buildings 2024–2025"
- January 2024 December 2025
- Total budget €90m
- Utilization of renewable energy sources (photovoltaic panels) and energy saving measures (roof insulation) in existing residential buildings owned by natural persons.

## Journey mapping

### STEP I - AWARENESS Learning about the Scheme STEP 2 - CONSIDERATION Understanding Seeking Finding it more interesting value information STEP 3 - DECISION Weighing pros and Deciding cons to to apply applying STEP 4 - ACTION Completing Submitting online on time

application



#### BARRIERS:

- Sub-optimal channels of communication. Scheme, what scheme?
- No word of mouth. I haven't heard anyone talking about this.



#### BARRIERS:

- Tunneling. Whatever this is, it's not important now.
- Messenger effect. Who says so?
- Hassle factors. It's such a hassle to even understand this, let alone apply!
- Information overload. That's too much information.
- Complexity. This is too complicated to understand.
- Ambiguity. What are the benefits?
   Am I eligible?
- Learned helplessness. It's pointless.
- Overconfidence and wishful thinking. I will get out of this situation soon.



#### BARRIERS:

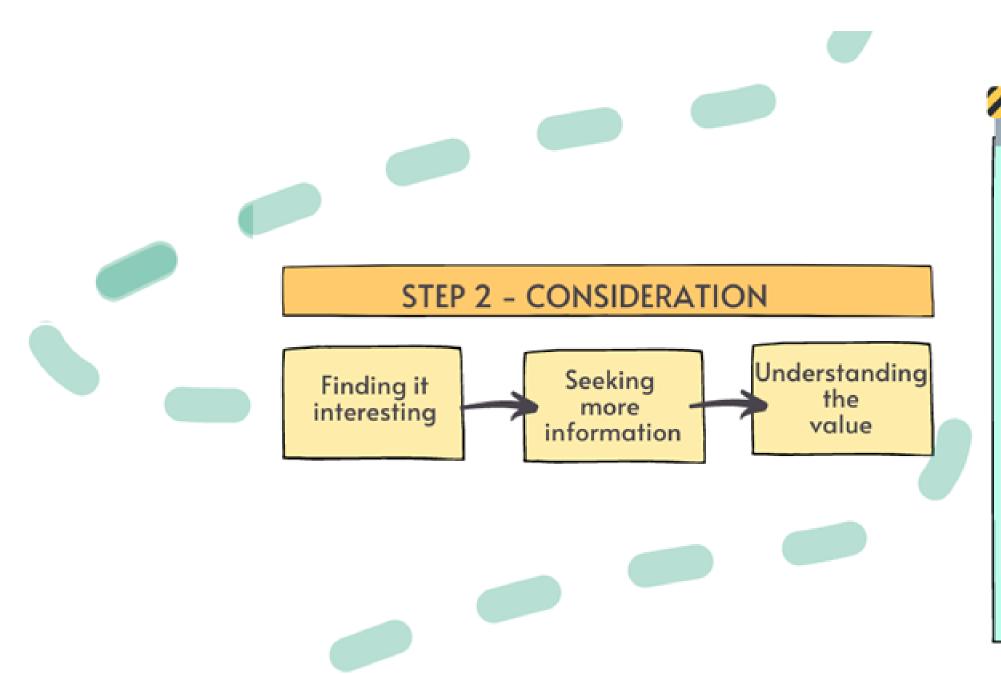
- Hyperbolic discounting. What do I have to pay now?
- Stigma. I don't want people to know I am struggling.
- Financial insecurity. How much do I need to pay now? Where will I get the money? When will I be reimbursed?
- · Choice overload. Too many choices!



#### BARRIERS:

- Ambiguity effect. I don't understand.
- Planning fallacy. There's plenty of time still.

### Journey mapping: Step 2 - Consideration



#### **BARRIERS:**

- Tunneling. Whatever this is, it's not important now.
- Messenger effect. Who says so?
- Hassle factors. It's such a hassle to even understand this, let alone apply!
- Information overload. That's too much information.
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The obstacles we identify are either

- **structural** (they exist because of how the grant scheme is designed and implemented, like hassle factors and ambiguity), or
- **behavioral** (how decision-makers of vulnerable households decide, like tunneling and hyperbolic discounting).

Both categories of obstacles share two things in common.

- They are often missed or ignored by policy-makers, globally, as with the Cyprus Grant Scheme.
- 2. Overcoming these obstacles can involve **small**, **structural changes** (as opposed to behavioral change) which are often very cost-effective.

### Actionable recommendations for increasing Consideration of scheme

- Re-think **channels of communication**: social norms formation, trust
  - e.g., discussions vs lectures, trusted messengers
- Re-think content of communication: positive social norms, in-group identity
  - e.g., "More and more of your fellow citizens in the municipality of Strovolos are applying"
- Re-think framing of communication: loss aversion
  - e.g. ,'If you live in a 100 sq.m. residence, every month you go without solar panels costs you X money'.

### Actionable recommendations for increasing Consideration of scheme

- Re-think content of the Scheme: simplicity, mitigating uncertainty
  - e.g., separate scheme, avoid facts that are irrelevant from the applicants' point of view (such as EU regulations and national goals), eliminate complex terms, present information in the order that makes sense to the target audience, short case studies and tangible estimates of the benefits, list of companies-contractors that are willing to accept being repaid directly by the government funding.

### Actionable recommendations for increasing Consideration of scheme

- Re-think identity evoked: identity
  - e.g. "head of family", "working provider" or "energy-efficiency ready"
- Re-think friction points: hassle, complexity, ambiguity
  - e.g. 'passport page" that provides an executive summary, website links to specific documents, clear labeling, language, personalized help by manning the phonelines.
- Re-think additional help
  - e.g. assisting with initial steps of the application process by pre-filling or prepopulating some information, financial intermediaries, timely reminders.

### Conclusion

### With a behavioral analysis of the scheme

we can identify small, **cost-effective** structural changes that **go beyond** information provision (since information alone is rarely enough to lead to action because of the prevalence of the intention-action gap).

### There's still some way to go:

- Context matters. What will work in Cyprus? Need to do RCTs.
- Heterogeneity within "vulnerable households"





### Behavioural Insights and Public Policy:





