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# WP3.5 Foster the contribution of energy consumers to the energy transition

## **Objectives**



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Build a web interface to the SMI to foster the contribution of energy consumers to the energy transition and more generally their ecological reflexivity

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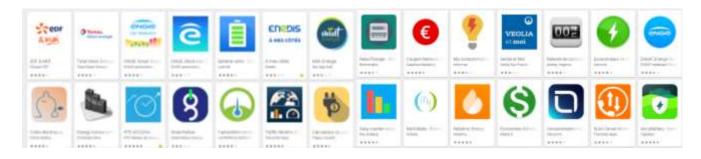
Analyse existing tools, their objectives and impacts



Investigate how individuals are facing the control of energy demand issue and their relation with dedicated tools

# Analyse existing tools

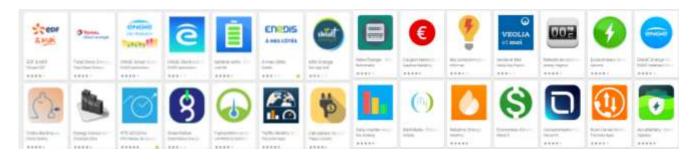
+ Litterature analysis



	Individual applications	Collective applications	
Purposes	Follow and manage individual energy consumptions	General information on energy	
Issues to solve	Arguments in favor of <b>ecology and carbon footprint</b> are <b>mostly absent</b> or mentioned as secondary information.	A contribution to global challenges : "Let's act together for the planet", "Let's act against climate change", and "Change our habits to protect the planet".	
	<b>No impacts on the lifestyles</b> "while preserving your comfort", "without impacting your comfort", "without effort".		
Indicators	Energy consumption in kWh. Cost indicators in euros.	<ul> <li>Energy consumption per hour (in watts).</li> <li>CO<sub>2</sub> emissions (in grams).</li> <li>Quantity of uranium (in micrograms).</li> <li>Equivalences in terms of activity, e.g. number of km drived with a vehicle.</li> </ul>	
Advertisements	Promote new equipments and offer discounts.	-	
Games	Very few games / challenges	More games and challenges	

# Analyse existing tools

+ Litterature analysis

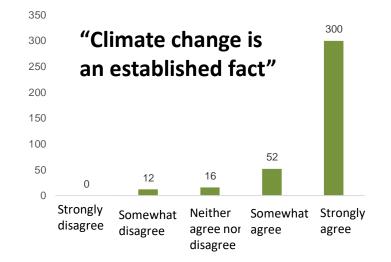


	Individual applications	Collective applications
Purposes	Follow and manage individual energy consumptions	General information on energy
Issues to solve	Arguments in favor of ecology and carbon footprint are mostly absent or mentioned as secondary information. What sense is given to the energy soberty ?	A contribution to global challenges : "Let's act together for the planet", "Let's act against climate change", and "Change our habits to protect the planet".
	No impacts on " "while preserving your comfort", "without in	mpacting your comfort", "What understanding of
Indicators	Cost indicators in euros. Energy consumption in kWh. Costs may reinforce rebound effects	Energy consumption per indicators? CO <sub>2</sub> emissions (in grams). Quantity of uranium (in micrograms). Equivalences in terms of Games may reinforce the km drived with a vehicle idea that the energy
Advertisements	Promote new equipments and offer discounts.	transition is easy
Games	Very few games / challenges	More games and challenges

# Qualitative and quantitative surveys

- 13 qualitative interviews (Master thesis C. Ciani)
- 381 answer to an on-line questionnaire (Master thesis J. Prifti)

# What representation of **atmospheric risks & energy planning** ? What links ?



What **use of tools** proposed to control the energy demand? What representation of their role in energy planning ?



What **confidence** in tools ? in the politicians to solve the problems?

### **Results of qualitative surveys**

Only 13 people ... Not a representative sample ~ 2 hours of open-ended questions

Aware of the need to reduce their carbon footprint (transport, food). Energy-saving efforts but doubt regarding their impacts. What's about the others ? Feel disarmed face to climate change.

Little knowledge on the energy transition objectives Comparisons with other households induce feelings to be in the norm Energy savings more for financial concerns. Influences of personal conditions (e.g. divorce) and weight of energy costs in the global household budget

Additional mental burden for others Applications used only by one member in the family. Help to reinforce existing energy-saving behaviors. Need more information to reduce their consumptions

Tools / Technological solutions felt as useless to help the energy transition

General distrusts in politicians concerning actions on climate change <> Look for advices in their close network

Concerned about security and protection of their personal privacy

23 novembre 2022

Smart Meter Inclusif

#### Additonnal results of quantitative surveys A questionnary : 381 answers in FR + Still running in DE

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10,000

## **SMI** web interface



#### Need to remind the context of the energy transition, collective and global challenges.



#### **AWARNESS**

- Explain the collective challenges of the energy transition
- Propose an evaluation of the carbon footprint using the ADEME's "Nos Gestes Climat" tool
- Visualize the global electricity consumption with graphs



#### UNDERSTANDING

- Visualize electrical consumption by equipment
- Propose eco-actions to experiment
- Propose the monitoring of other energy consumptions (gas, wood, fuel), water and goods



#### ACTIONS

- Invite to reduce energy consumption for ecological goal and not economic goal
- Propose to share experience







Thanks for your attention Nadège BLOND nadege@unistra.fr

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