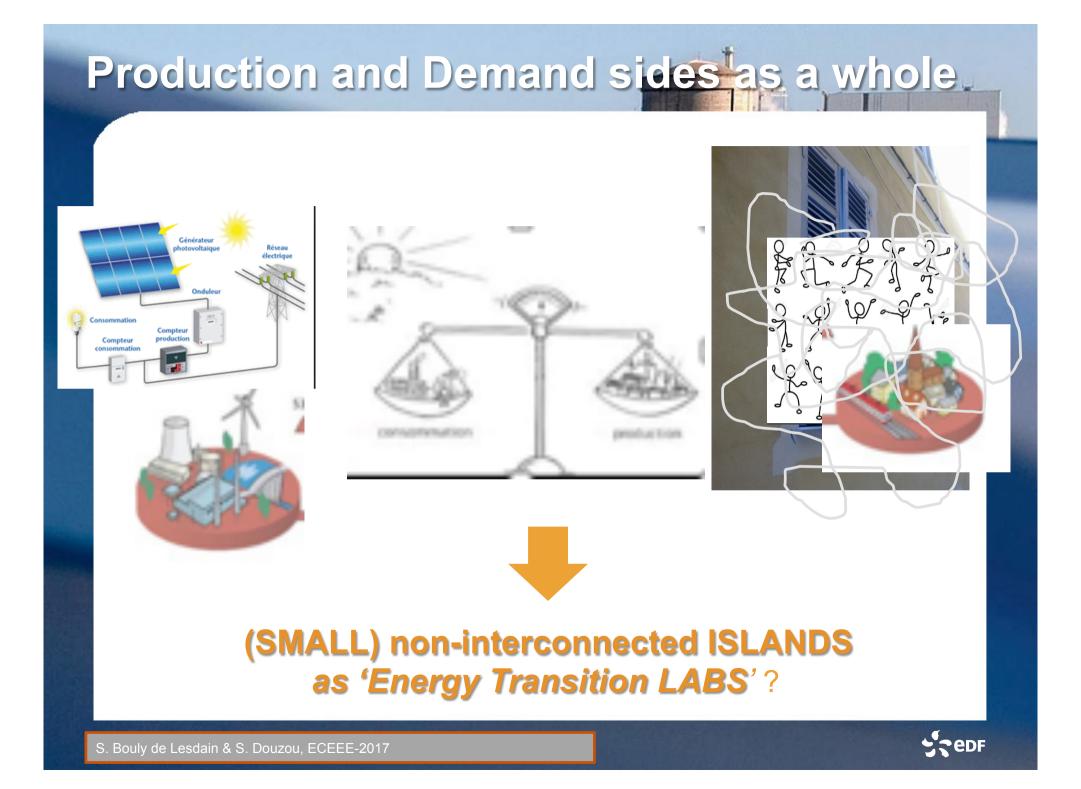
## Islands stories, geographical limits and electricity system dynamics

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What can we learn forma reading of electricity support consumption modes?

ECEEE Sumer study – May June

Sophie Bouly de Lesdain EDF – R&D Sylvie Douzou EDF – R&D



## Case study: 3 French Non-interconnected Islands Corsica Apricati Geographical limits (Electricity) Energy High level of fossil fuel Energy and 'injected' renewables Production **Energy Market** Regulated, monopolistic situation Increasing Consumption (3%/year vs 1,5 Mainland France) Social Framework Precarious socio-economic context (unployement higher than in mainland France) **Specific Policy** National & European goals + Energy autonomy by 2030

## About materials, approach and aim

#### **MILLENER\*** collaborative project

- Demand management (steering heating and air conditioning during peak hours) and electricity consumption information
- 2 technical devices tested, 523 voluntary households:
  - Load shedding remote system coupled with a derogation display unit ("the box")
  - Information Consumption displays on the Internet portal



- Sociological material: 63 interviews and 393 follow-up questionnaires
- Climate and territorial features do not explain household's arbitrations
- The volume of household's electricity consumption say nothing really about consumptions dynamics

#### Secondary analysis of sociological material

- Multi-situated analysis (Marcus 1995)
- Understanding of the 'reception' and appropriation processes and mechanisms

\* The Millener Project (2011 to 2015) was funded by the European Union (Fonds FEDER), ADEME, La Collectivité

F, th eproject gathered 7 industrials.



## Impacts of the context

Awarness of the limits of the island's electricity system versus..... Desire for everyday comfort

- Limited ressources : power cut and voltage variations
- Local ressources (sun, water, wind) / imported fuels (domestic fuel)
  - A context of « catching up » in terms of comfort (ex. air conditioning)

How to resolve this tension ?



# Different logics of action

The « altruists » The « thrifty » The « comfort-seekers »

# Do these logics of action lead to changes in energy practices ?



### Capacity of action ... and a need to « maintain control »

### **Changing drivers**

- People's perception of their level of consumption
- Marge of action
- Priorities
- Information helps to understand their electricity consumption... but not to change it.

### Dynamics of appropriation

- Changing energy practices
- Delegating to technology
- Delegating to EDF : Detect faulty appliances, alert when consumption is abnormally to high



### Discussion and perspectives

### Back to basics

Energy demand and perception is place-based Logics of action are not only financial

- Build policies on people' capacity of action
- People are ready to accept harsher conditions as long as it is a choice (chosen / imposed constraints)
- Public policies which adapt to people' desire to control



# THANK-YOU MERCI

