Public acceptability of energy sources, systems and policies

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Gas extraction and earthquakes in Groningen
Public perceptions

> Representative sample Groningen province
> Questionnaires door-to-door
> Six measurement phases:
  - November 2013
  - June 2014
  - November 2014
  - December 2016
  - February 2018
  - 2019
> Three regions
  - Region 1: Loppersum
  - Region 2: Bedum, Appingedam, and Slochteren
  - Region 3: Zuidhorn, Groningen, and Delfzijl
Acceptability

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<tr>
<th>Fase</th>
<th>Fase 1</th>
<th>Fase 2</th>
<th>Fase 3</th>
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<td>3.2</td>
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<td>3.5</td>
<td>3.3</td>
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Regio 1 | Regio 2 | Regio 3
Perceived risks

› Highest perceived risks for homes (damage, house value) and for the image of the province of Groningen

› Other risks seen as less likely: physical injury, stress, reduced quality of living

› Perceived high risks for others
Emotions

› Negative emotions not extremely strong
› Strong feeling of powerlessness
Trust

- Low trust in responsible parties

- Higher trust in local governments
PUBLIC ACCEPTABILITY

PERCEIVED COSTS AND BENEFITS
- Individual
- Collective
- Distributional and procedural justice

CONTEXTUAL FACTORS
- Price, quality, visual impact
- Environmental impact, public health and safety
- Distribution of costs and benefits, procedures

INDIVIDUAL FACTORS
- Values
- Place-attachment, place-identity
- Trust in responsible parties

Perlaviciute & Steg, 2014
Values

- Altruistic
- Biospheric
- Egoistic
- Hedonic
Effects of values on evaluations of nuclear energy and renewable energy sources

Perlaviciute & Steg (2015)
Strong egoistic values
Strong biospheric values
Decision-making power and trust

Liu, Bouman, Perlaviciute, & Steg (2019)
Decision-making power and trust
Thank you!

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