Information-Seeking Behavior between Energy Policy and Energy Saving

Dorothee Arlt, University of Bern Jens Wolling, Ilmenau University of Technoloy Pablo Porten-Cheé, Heinrich Heine University

28 June 2013, IAMCR Dublin



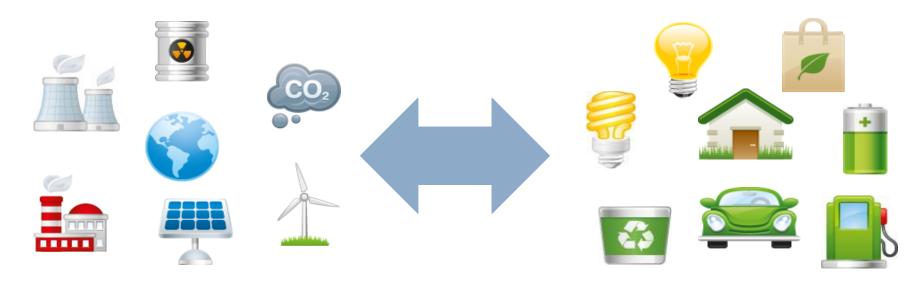
TECHNISCHE UNIVERSITÄT

ILMENAU

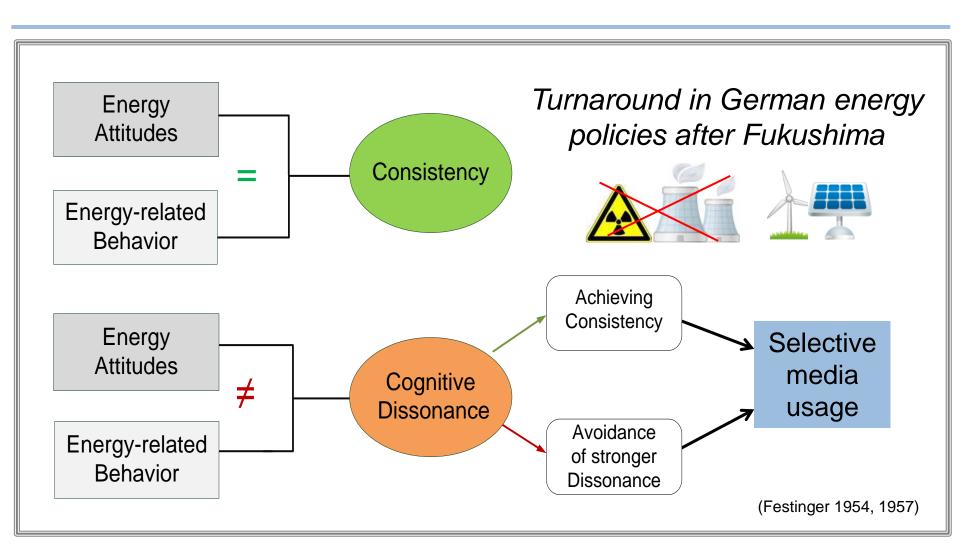
UNIVERSITÄT BERN **Research Interest**



What effect do energy-related Attitude-Behavior-Relations have on an active Information-Seeking-Behavior for information on energy issues?



Theory of Cognitive Dissonance



U the

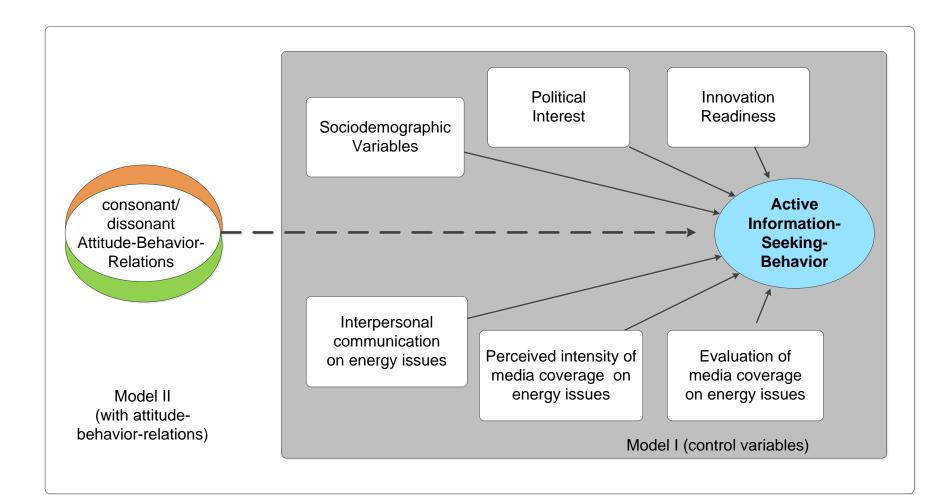


Energy-related Dissonance and Consistency

Types of Energy-related Attitude-Behavior-Relations		Energy-related Bahavior	
		No Energy-saving Behavior	Energy-saving Behavior
<u>Energy</u>	Low Energy	Energy	Attitude-Unattached
	Awareness	Ignorants	Energy-Savers
<u>Attitudes</u>	High Energy	Energy	Consequent
	Awareness	Rhetoricians	Energy-Minders

Research Model





Methods and Sample

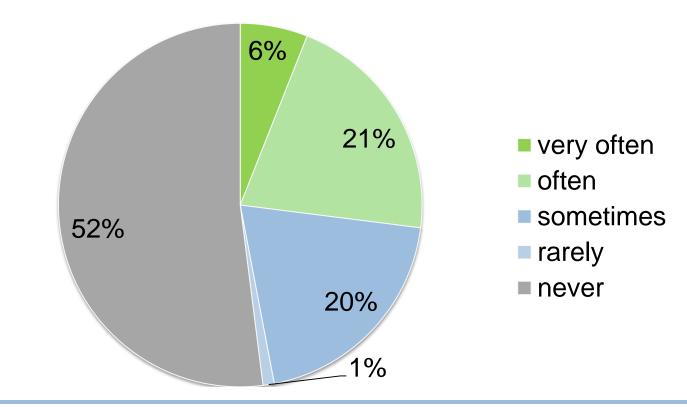


- Telephone Survey in a panel design
- Standardized questionnaire
- > Two-stage sampling process (RLD & Next-Birthday)
- Representative sample of people in private households in German state (Thuringia) older than 18 years
- Data collection 08-09/2010 and 05/2011
- > Panel data of N=341 people
- > 49% women; 51% men
- > 19 and 88 years old (average age: 52 years)

Active Information-Seeking-Behavior



How often often did you actively seek for information on energy, energy consumption or energy-saving options within the last year?



Energy Attitudes: Two Factors

U this

Pro-Renewables (Factor 1)

- More wind turbines should be approved in Thuringia.
- Higher energy prices are acceptable, if thereby the roll-out of solar energy is fostered.
- It is nesseccary to expand the energy grid through the Thurigian Forest in order to foster the roll-out of renewable energies.

> N=341; M=2,3

Nuclear-Alternatives (Factor 2)

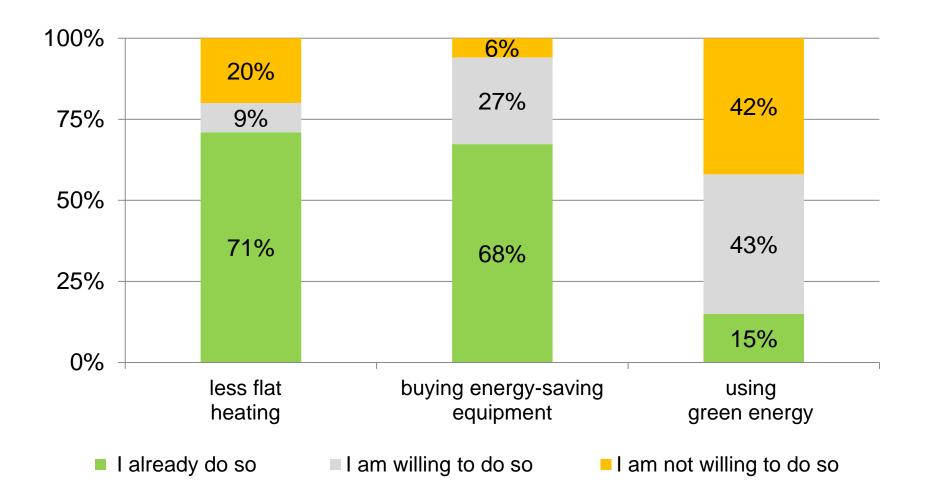
- Without nuclear energy the German energy needs can not be covered permanently. (*reversed*)
- In the long term renewable energies will be cheaper than nuclear energy.
- In the next 20 years enough energy will be produced by renewable energy resources to disclaim nuclear power completely.

N=337; M=2,7

<u>Remarks:</u> Measurement on a 4-point scale from 1"totally disagree" to 4 "totally agree"; Factor Analysis achieved 56% variance explanation (KMO = .72)



Energy-Saving Behavior Patterns





Results for Attitude-Behavior-Relations

		Energy-related Bahavior		
		No willingness to adopt any of the three behavior patterns	Willingness to adopt at least one of the three behavior patterns	
Energy attitudes	Means of both attitude factors ≤ 2,5	Energy Ignorants (11%)	Attitude-Unattached Energy-Savers (22%)	
	Mean of at least one attitude factor > 2,5	Energy Rhetoricians (37%)	Consequent Energy-Minders (30%)	

Results of Regressions Models

U^b this

Models to Explain Active Information-Seeking-	MI	MII
Behavior on energy-issues	beta-coefficients (stand.)	
Interpersonal Communication on Energy (high)	.18	
Political Interest (high)	.12	
Innovation Readiness (high)	.16	
Age (high)	.17	
Gender (men)	.13	
Income (high)	.13	

R ² =	.16	
n =	317	

Results of Regressions Models

U^b this

Models to Explain Active Information-Seeking-	MI	M II	
Behavior on energy-issues	beta-coeffici	beta-coefficients (stand.)	
Interpersonal Communication on Energy (high)	.18	.19	
Political Interest (high)	.12	.12	
Innovation Readiness (high)	.16	.14	
Age (high)	.17	.13	
Gender (men)	.13	.12	
Income (high)	.13	.14	
Energy Ignorants (consistent)		n.s.	
Attitude-Unattached Energy-Savers (dissonant)		n.s.	
Energy Rhetoricians (dissonant)		13	
R ² =	.16	.17	
n =	317	317	

Conclusions



- > Active information-seeking is
 - mainly affected by interpersonal communication, innovation readiness and sociodemographic variables
 - slighlty affected by attitude-behavior-relations
- "Energy Rhetoricians" seek less for information
- In general: people with consonant attitude-behaviorrelations seem to seek for more information
- > Limitation: small, regional sample



Thank you for your attention.

Contacts

Dorothee Arlt, University of Bern Email: dorothee.arlt@ikmb.unibe.ch

Jens Wolling, Ilmenau University of Technology Email: jens.wolling@tu-ilmenau.de

Pablo Porten-Cheé, Heinrich Heine University Email: pablo.porten-chee@phil.uni-duesseldorf.de



What effect have these *four* Attitude-Behavior-Relations on active Information-Seeking-Behavior for information on energy issues?

- > Hypothesis 1: People with dissonant Attitude-Behavior-Relations seek less for information on energy issues than people with consistent Attitude-Behavior-Relations.
- > Hypothesis 2:

Energy Rhetoricians seek less for information on energy issues than *Attitude-Unattached Energy-Savers*.

> Hypothesis 3:

Consequent Energy-Minders seek for more information on energy issues than *Energy Ignorants*.