

Don't just press the button! The importance of appliance settings



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Overview

- Introduction and motivation
- Extent of the issue
- 'Eco-modes' in washing machines/ water heaters
- Policy recommendations



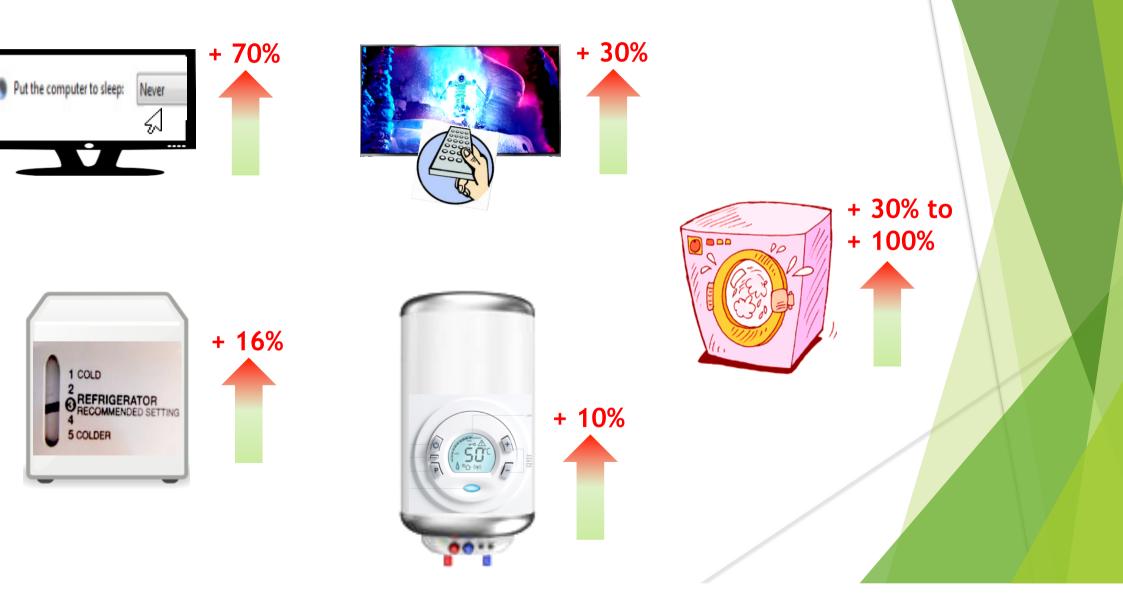
Introduction

Appliances are more sophisticated with a multiplication of programmes and auxiliary features

Users pay little attention to product settings/consumer behaviour understudied; real life energy use may diverge substantially

Risk that the standard test methods for energy performance are not representative of actual use

ser settings affecting energy consumption



tual use of different dishwashing programmes

of households using mainly this programme	Intensive	Energy saving / Eco		Automatic	Glass/Care	Short	Normal 50-55 °C	Normal 60-65 °C	Other programmes
chter (2010a) = <i>1209)</i>	12,4	17,0		14,8	7,8	11,3	2	29,1	7,7
amminger and Streichardt (2009) =2599)	8,9	17,7		7,8		8,7	27,7	29,1	6,0
chler (2015) – Online-study = <i>3836)</i>	14,5	18,7		14,3	6,4	12,2	17,0	16,9	
chler (2015) - Usage diary study = <i>202)</i>	13,7	22,4		25,7	0,5	11,5	8,2	16,9	1,0

'Eco mode' in washing machines

Programmes	Load (Kg)	Energy consump- tion (kWh)	Water con- sumption (litre)	Approxi- mate pro- gramme duration (minutes)	Remain- ing mois- ture (%) ¹⁾
Cottons 60 °C	9	1.55	79	170	52
Cottons 40 °C	9	0.97	79	164	52
Synthetics 40 °C	3	0.55	54	109	35
Delicates 40 °C	3	0.60	59	89	35
Wool/Hand wash 30 °C	2	0.35	58	60	30
Standard cotto	n progra	ammes			
Standard 60 °C cotton	9	0.64	58	226	52
Standard 60 °C cotton	4.5	0.35	40	185	52
Standard 40 °C cotton	4.5	0.35	40	199	52

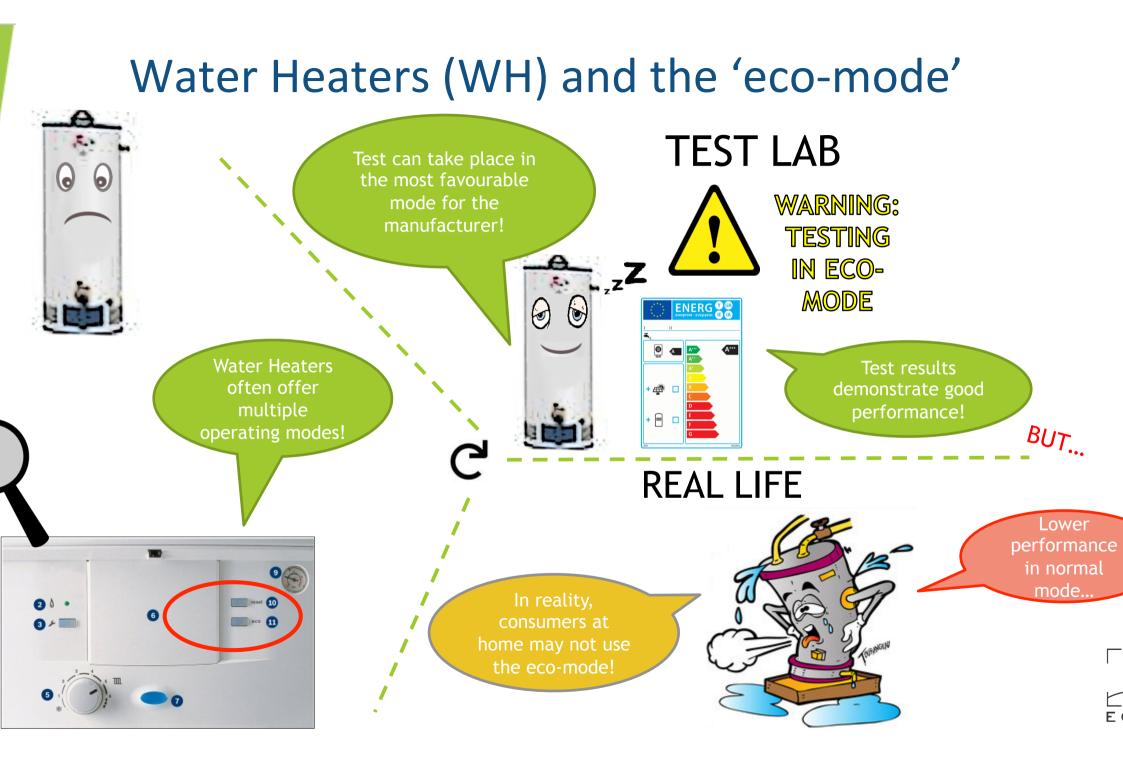
Instruction manual for a washing machine (AEG L89495FL)

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2010/1061	

Result: possible misleading claims







WH compromise: 'out-of-the-box' mode

EC Communication on transitional methods for water heaters

Specifies that each water heater shall be tested in the "out of the boxmode"

Recommendations

- 1. Clear test conditions, representative of real life use; add safeguard principle to the Energy Labelling Directives
- 2. Inform consumers of basis for Energy Label rating and display important parameters (eg. T) opportunities through **digitalision of the energy label**
- 3. Deliver products with energy management features enabled by default
- **4. Educate/inform on energy saving behaviours** through improved manuals, campaigns, as well as consumer organisations
- 5. Research systematically real life user behaviour with energy related products (eg. in revisions of Ecodesign and Energy Labelling white goods regulations)



THANK YOU!

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