

European Energy Network

A voluntary network of European energy agencies

European population's perception of water efficiency labelling schemes



Consumer survey



Water scarcity and water security

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Energy security and energy transition



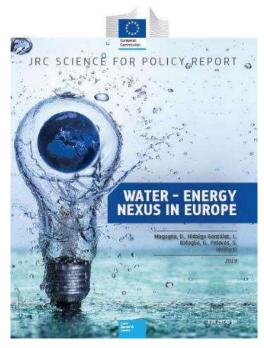


Water-Energy Nexus

The energy sector largely depends on water

Water availability is among the key constraints affecting the European energy sector, which currently requires 74 billion m3/year of freshwater, similar to the water needs of agriculture.

The decarbonisation of the energy system could reduce its water needs by 38 % by 2050, yet water availability will play an essential role on the way to climate neutrality by 2050. Water is critical for energy



European Commission, Joint Research Centre, Water - energy nexus in Europe, Magagna, D.(editor), Peteves, S.(editor), Bidoglio, G.(editor), Hidalgo González, I.(editor), Publications Office, 2019 <u>https://data.europa.eu/doi/10.2760/968197</u>





Water-Energy Nexus

The water sector largely depends on energy

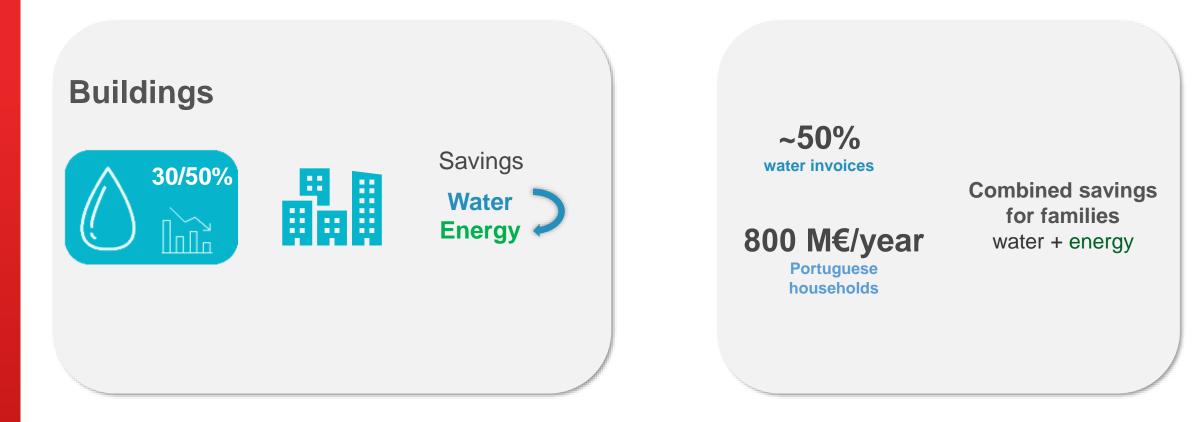
Energy is critical Water supply for water 6 a 18% Energy demand of global cities Energy global 4% consumption 10% Cities CO₂ emissions





Need for water efficiency

Demand side management is key and has great savings potential

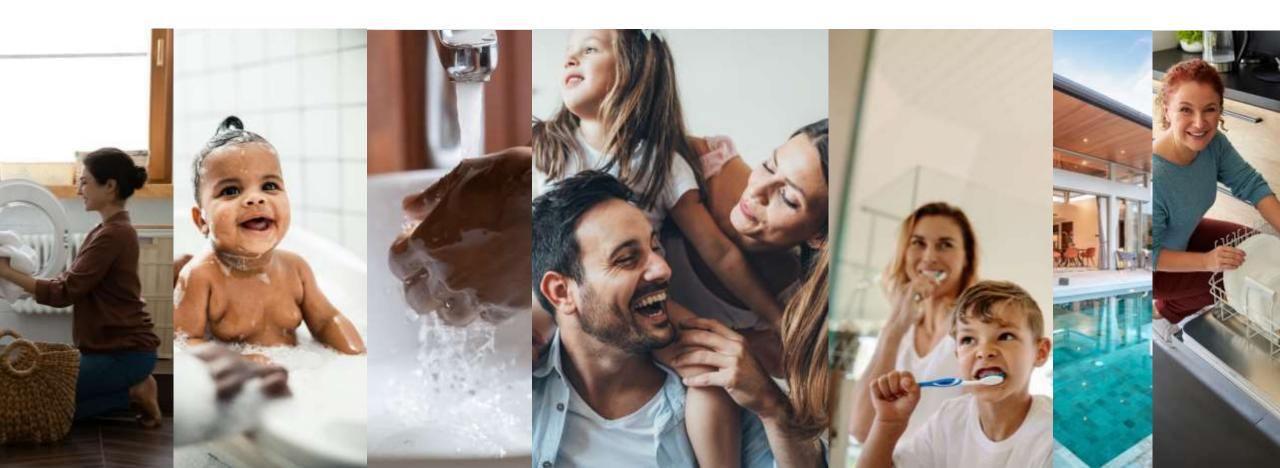








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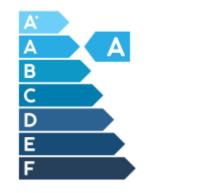


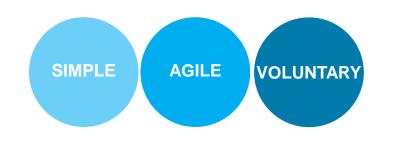


Water rating for buildings, Portugal



- Building assessment and classification system (F to A+) based on water use infrastructure, devices and equipment
- Values the most efficient solutions and identifies opportunities for improvement, guiding and promoting best practices
- Prompt assessment in all types of buildings and their life phases
- Replicable by trained and qualified technicians











Water rating for buildings, Portugal



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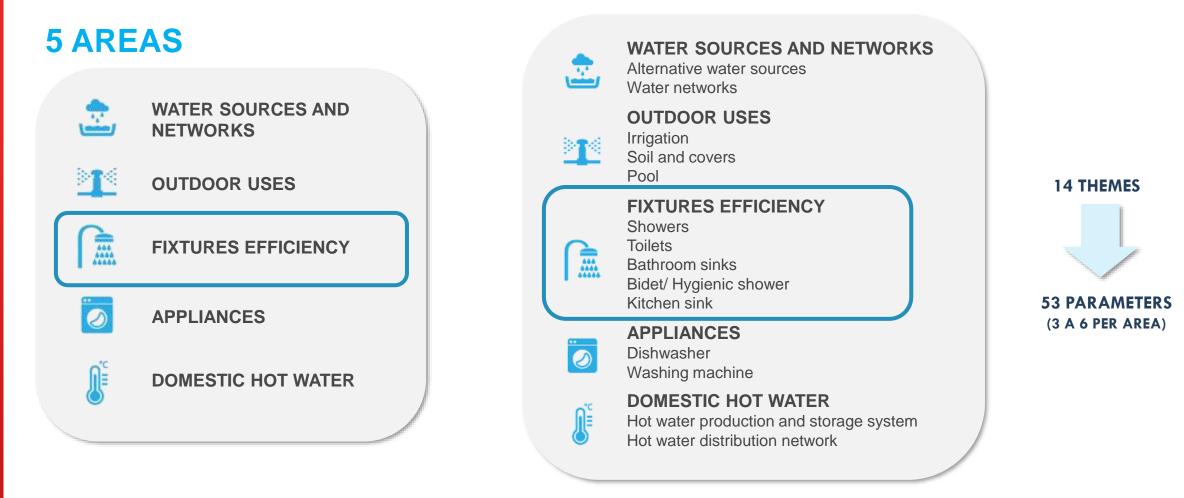
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Water rating for buildings, Portugal













Estimated Water Savings for Hotel Buildings in Portugal (indoor uses):

4 billion liters per year

Equivalent to the drinking water needs of 65% of the Portuguese population for a year.

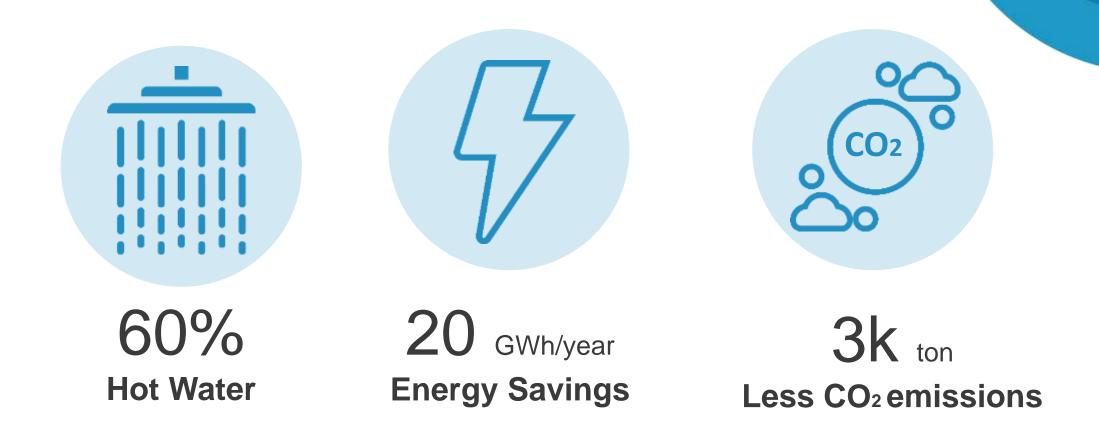




Estimated Energy and CO2 Savings for Hotel Buildings in Portugal



(through indoor water efficiency)







Schemes in US and Australia for buildings







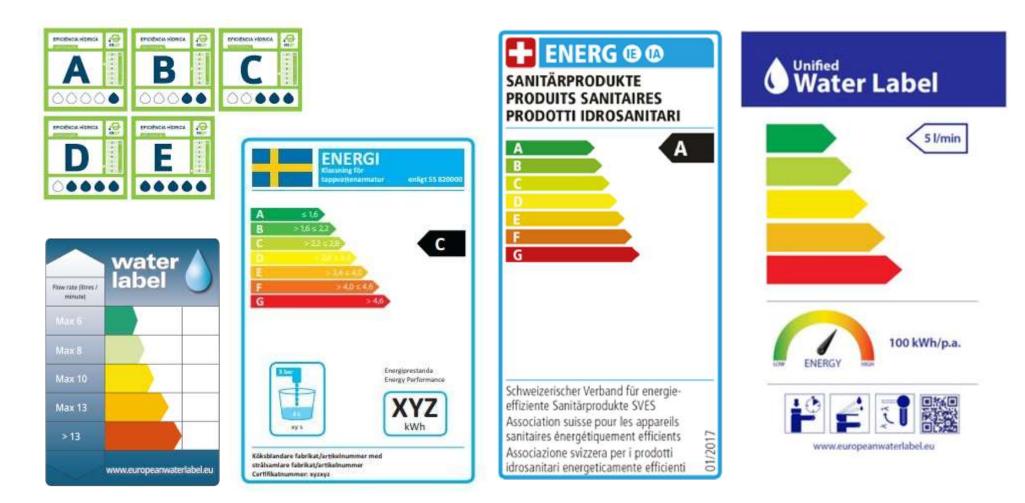
Schemes in US and Australia for water use products







Schemes in Europe for water use products







Efforts to have a single label... EC, UK, industry





Agência para a Energia



ISO 31600:2022

Standardization on Water efficiency labelling programmes

INTERNATIONAL STANDARD	ISO 31600
	First edition 2022-06
Water efficiency labelling – Requirements with guid implementation	programmes ance for
IŜO	Reference number ISO 31600:2022(E)
	© 150 2022





Consumer survey

Objectives

Understand consumers' needs, motivations and willingness to choose **labeled water use products, fixtures and equipment**, towards water and energy savings.



Motivation

Provide input to the discussion within the European Commission and industry stakeholders about the mandatory option through the EU energy label and the voluntary option through the agreement between industry and EC.

Relevance

Potential contribution to the **new rules for EU construction products** announced in March 2022

Framework

Implementation of water saving fixtures, alone, can produce up to **50% water savings in buildings, with energy and CO₂ emissions reduction** by end users and urban water systems. **Water and/or energy labelling** may be tools to help consumers on efficient choices.



Preliminary results







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Consumer survey



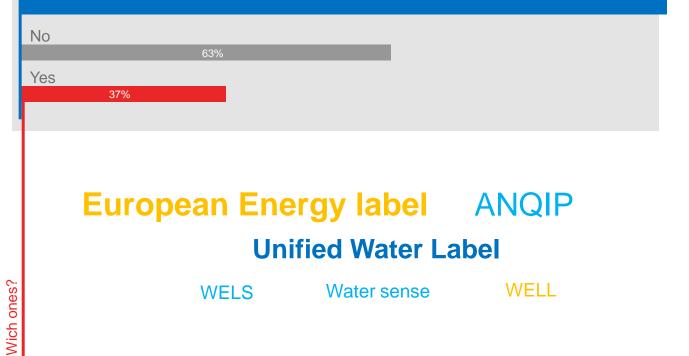
Answers from **21** countries







Do you know any **type of water or energy labels** for products and fixtures?







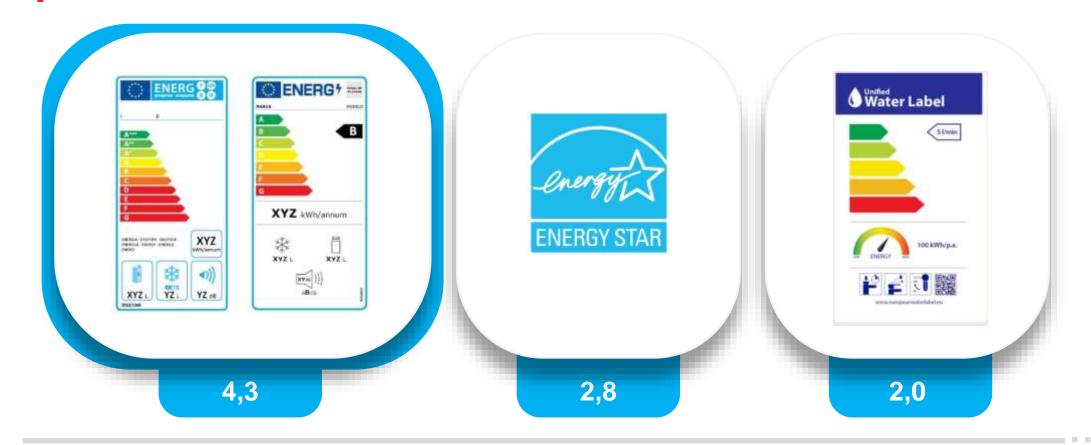
Are you aware of any **financial support** (a grant, subsidy, etc) to buy efficient products/fixtures?







How familiar are consumers with efficiency labels?







How familiar are consumers with efficiency labels?







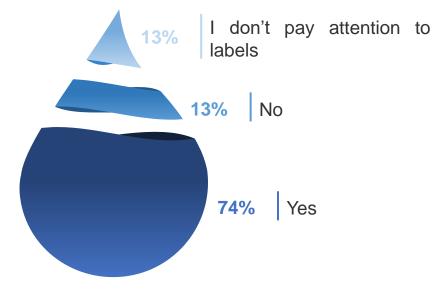






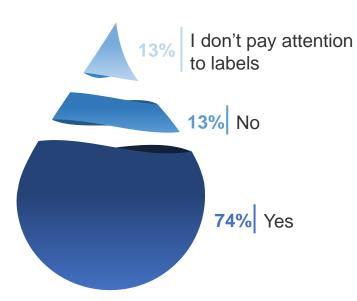


Do you choose labeled products/fixtures (taps, showers, etc.) when buying new ones?





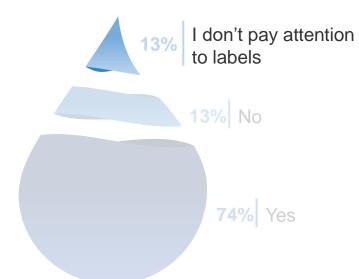










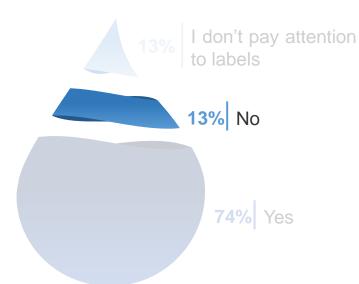


The main reasons to those who don't choose labeled products are:

"I don't know any efficiency labels" "I can't find labeled products/fixtures on the market"







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"I can't find labeled products/fixtures on the market"

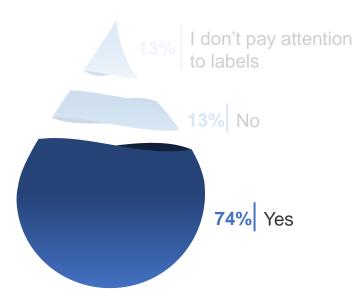




Consumer survey: Preliminary results "Labels are not very well displayed" I don't pay attention to labels "Labels on taps, showers are less prominent 13% No compared to appliances/white goods(...)" 74% Yes 5,2 "Product performance may not meet expectations."







Which labels do you pay attention to when choosing a new product/fixture?





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Which labels do you pay attention to when choosing a new product/fixture?

45% Water + Energy







Which labels do you pay attention to when choosing a new product/fixture?

45% Water + Energy 40% Energy







Which labels do you pay attention to when choosing a new product/fixture?

45% Water + Energy40% Energy9% Water







Which labels do you pay attention to when choosing a new product/fixture?

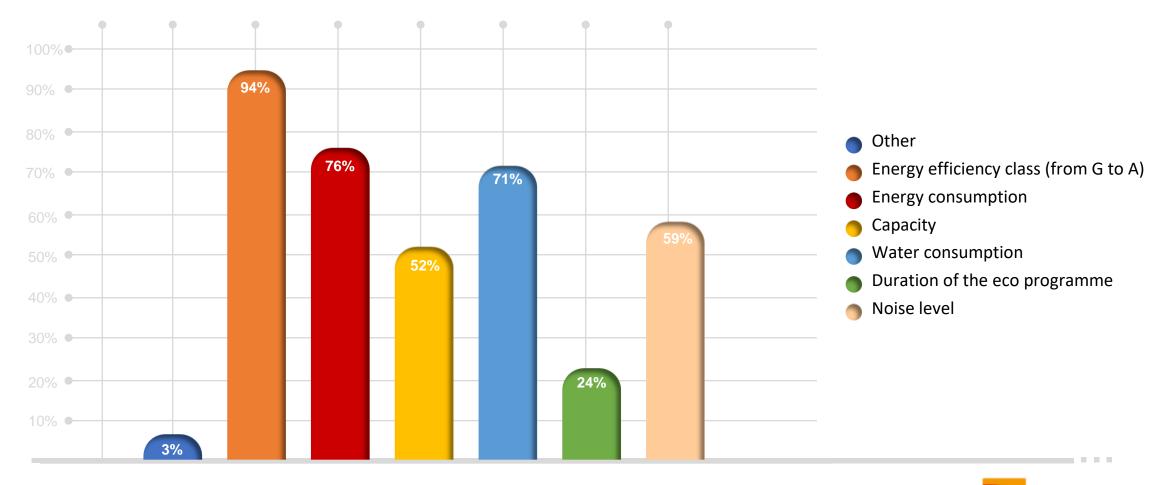
45% Water + Energy
40% Energy
9% Water
6% Others







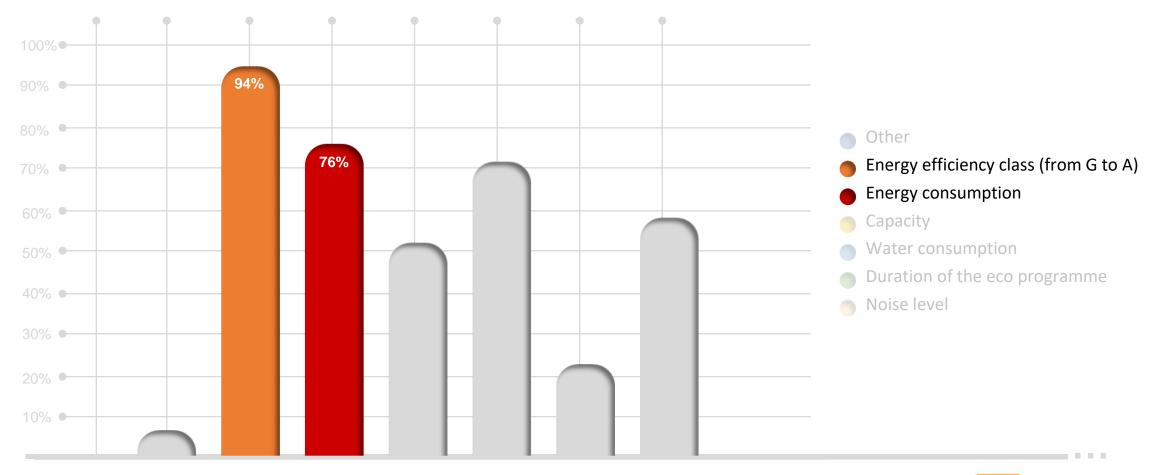
98% of consumers look for the european energy label when buying dishwashers and washing machines







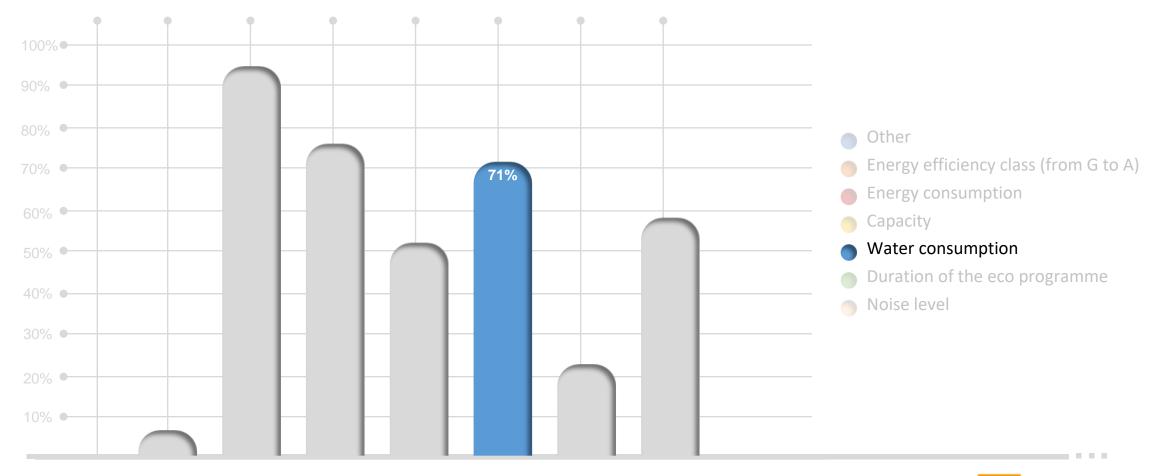
98% of consumers look for the european energy label when buying dishwashers and washing machines







98% of consumers look for the european energy label when buying dishwashers and washing machines







83%

of consumers choose dishwashers and/or washing machines with low water consumption when buying new ones



29% • I don't know where to look for this information

12% • I don't see advantages in buying a machine with low water consumption

10% • Machines with low consumption are more expensive

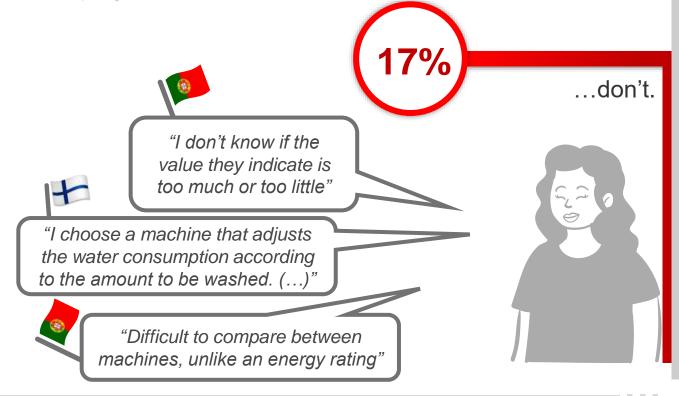
49% • Other





83%

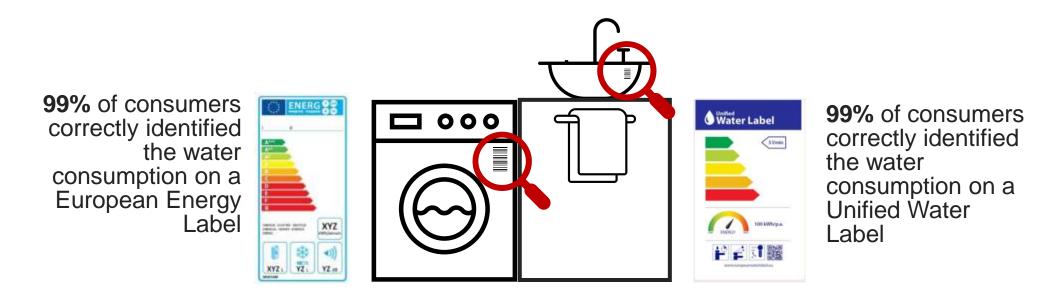
of consumers choose dishwashers and/or washing machines with low water consumption when buying new ones







Understanding of the European Energy Label and the Unified Water Label



29% incorrectly selected the most water efficient machine based on 2 European Energy Labels presented





Do you think the Unified Water Label provides relevant information?

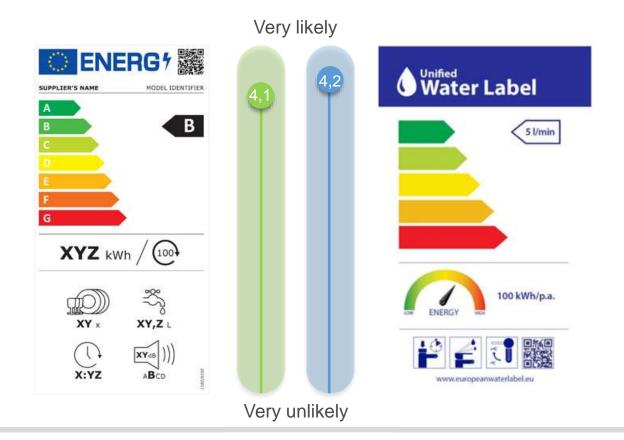


Mainly because it allows comparison between products/fixtures and simplifies the choice of efficient products/fixtures.





If you would find a label like this applied on fixtures, how likely would you have your purchase based on the label information?







Preliminary Conclusions

Consumers want labels for products/fixtures to help them make more efficient choices!

- Consumers value water labels for taps, showers and flushing systems and water information for appliances
- They also value energy labels and energy information for these products
- Water and energy together are preferred

Consumers should be involved in discussions about labeling schemes





Open for answers until October 30!



https://enr-network.org/2022/07/european-populationsperception-of-products-and-fixtures-labeling-schemes/ Available in **15** languages





Thank you for your attention

EnR Presidency 2022