# Water Efficiency Labeling and Standards (WELS) Schemes: Concept and Opportunity



March 2023





CLASP improves the energy and environmental performance of the appliances & equipment we use every day, accelerating our transition to a more sustainable world.

### What We Do





Energy & Quality Standards to keep inefficient, low-quality products off the market



Policy Compliance, Testing & Quality Assurance to ensure products perform & markets are fair to all



Product Labeling & Consumer Education to attract consumers to good products & inspire demand



Awards & Product Recognition to reward early-movers & accelerate markets



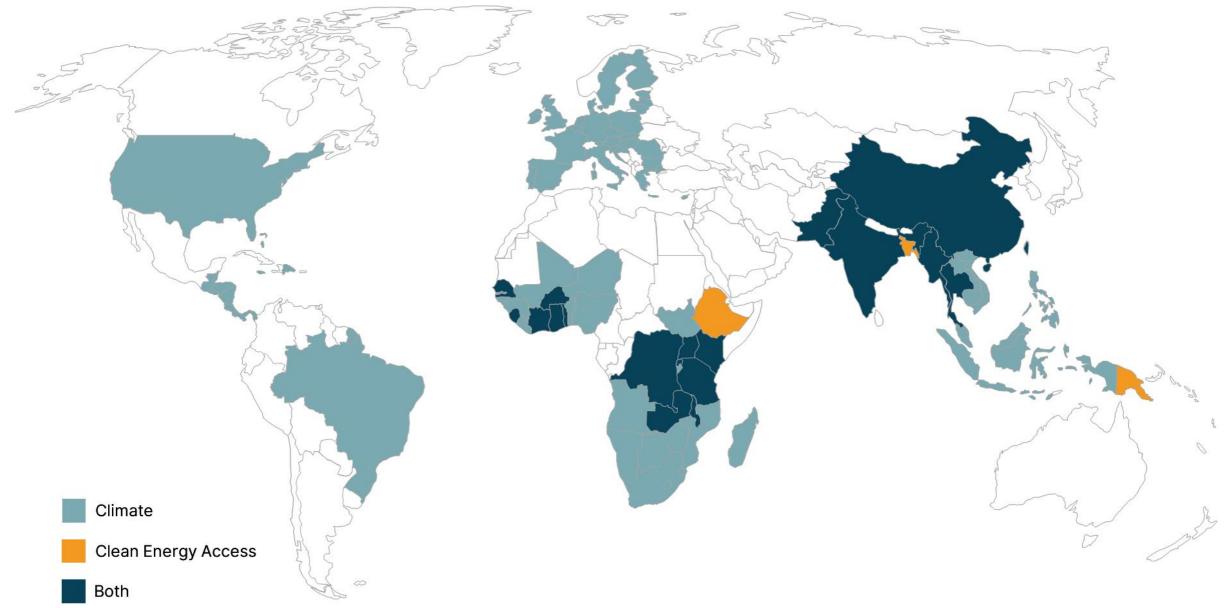
**Procurement, Incentives & Bulk Buys** to incentivize innovative manufacturers, reduce risks for all & saturate markets with efficient, high quality products



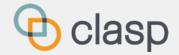
Global Collaboration & Knowledge Sharing to leverage cutting edge & collective knowledge and forge productive partnerships

#### Where We Work





### What are WELS?



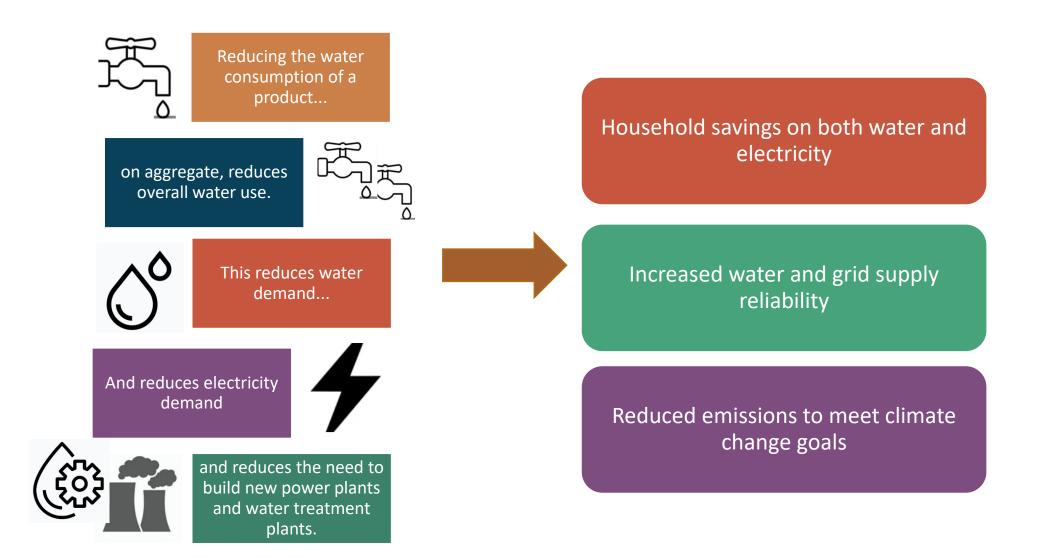
# WELS schemes promote water efficiency by informing consumers about the performance of water using products.

**GOAL:** provides consumers with information on the water efficiency of both water using fixtures such as taps & showers and appliances such as washing machines, dishwashers. It allows consumers to make quick comparative assessments of the water efficiency of a product by viewing the water rating labels



#### Benefits of Adopting a WELS Scheme to Utilities and Consumers





### WELS Efforts Globally



Country	Scheme Name/ Year Started
Australia	WELS, 2006 Smart Approved Watermark, 2006
New Zealand	WELS, 2010
USA & Canada	Water Sense, 2006
China	Water Conservation Certificate, 2002 China Water Efficiency Label, 2018
Singapore	Mandatory WELS, 2009
United Arab Emirates	ESMA Water Efficiency Label, 2013
United Kingdom	Water Technology List(2018-2020)

- Other countries include India, Malaysia, Portugal
- Can be government led or private sector/NGO led
- Can be voluntary or mandatory

### ISO 31600



### ISO 31600:2022

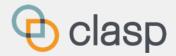
https://www.iso.org/standard/76401.html

- Provides a set of best practices and guidance for the preparation and implementation of a water efficiency labelling program for plumbing products and water using appliances
- Aims to
  - globally encourage the development of national standards for water efficiency labelling
  - encourage development and marketing of water efficient products,
  - enable consumers to make informed choices,
  - positively influence manufacturers to improve the performance of their products through consumer demand.

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## WELS Schemes Case Studies

### Australian WELS Scheme



#### **Objectives**

- conserve water supplies by reducing water consumption;
- provide information for purchasers of water using and water saving products;
- promote the adoption of efficient and effective water use and water saving technologies.

**Products Covered**: Dishwashers, flow controllers, showers, taps , toilets, urinals, washing machines



Star rating lets you quickly compare the water efficiency of different products.

Rate of water consumption such as flow rate, liters per flush or liters per wash lets you estimate how much water the product will use. Registration and product details including license number and registration number and, for washing machines and dishwashers, the model name and cycle used for testing.

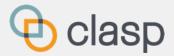
### Impact of Australian WELS Scheme



	2017	2026	2036
Annual Water Saving(Gl/yr)	112.18	184.81	230.92
Cumulative GHG Saved(Mt CO2-e)	11.00	31.45	55.90
Annual total household utility bill saving(\$M/Yr)	1047.93	1765.68	2638.15

Adopted from Evaluation WELS Scheme 2018, page 5

### **US WaterSense**



A voluntary partnership program sponsored by the U.S. Environmental Protection Agency (EPA),

WaterSense-labeled products and services are certified to use at least 20 percent less water, save energy, and perform as well as or better than regular models.

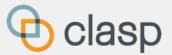
**Products Covered**: residential toilets, showerheads, bathroom taps, commercial toilets urinals, sprinkler bodies and irrigation controllers





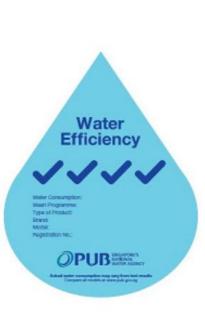
	Since 2006
Water and Energy Saving(USD)	87 billion
Water Saving(Gallons)	4.4 trillion

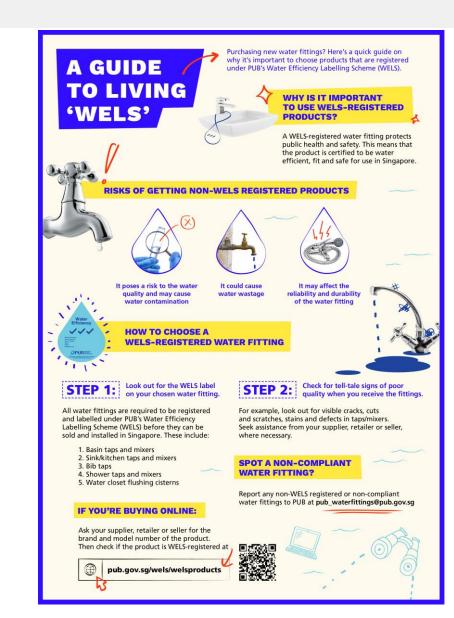
### **Singapore Water Efficiency**



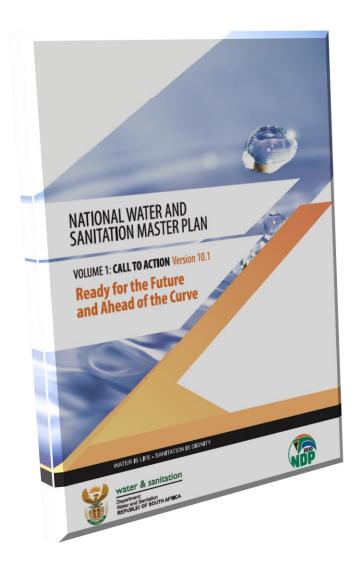
Kicked off in 2006 on a voluntary basis. Was made mandatory in 2009

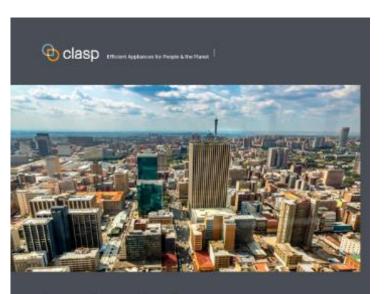
**Products Covered**: taps and mixers, dual-flush low capacity flushing cisterns, urinal flush valves, waterless urinals, clothes washing machines intended for household use, dishwashers and showerheads(voluntary)





### South Africa and WELS





In-depth Assessment of Water Efficiency Opportunities in South Africa

JANUARY 201

• Water efficient taps and showerheads could reduce South Africa's water use by over 1 trillion liters per year, reducing energy consumption by 18 TWh per year and CO2 emissions by 16Mt per year.

### Thank you! Any questions?



#### MONICA WAMBUI

Manager | mwambui@clasp.ngo



clasp.ngo