Tools for strengthening national policies for improving water use and limit water pollution in key industrial sectors in Asia
WHAT IS IWA?

Global Network for Water Professionals spanning the continuum of research and practice, and covering all aspects of the water cycle

- 10,000 members in 140 countries
- 50 Specialist Groups
- www.iwa-network.org
- 14 Journals
- 40 books/year
- Biennial Congress with over 9000 participants
- Over 30 conferences/year with over 50,000 participants
- Leading edge technologies and best practices

www.iwa-network.org

inspiring change

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**WATER WISE FRAMEWORK**

The Principles for Water-Wise Cities – aim to assist leaders to develop and implement their vision for sustainable urban water, beyond equitable universal access to safe drinking water and sanitation.

Includes industrial water users

1. Regenerative Water Services
2. Water Sensitive Urban Design
3. Basin Connected Cities
4. Building water-wise communities
IMPROVING WATER USE AND LIMITING POLLUTION IN INDUSTRY

1 Regenerative Water Services

Vision: Ensure public health and satisfy all current needs while protecting the quality and quantity of water resources

- **Pretreatment of industrial wastewaters** - focus on appropriate and sustainable treatment systems for industrial wastes to enable safe discharge to sewerage systems or the environment.

- The **Wetland Systems for Water Pollution Control** specialist group is exploring innovative applications using wetlands to treat wastewater (including from industry).

- **Chemical industries** specialist group - clearinghouse for technical information worldwide on industrial waste management especially focusing on chemical industry related wastes.

- **Forest Industry** Specialist Group addresses environmental issues within the forest industry, particularly in the pulp and paper industry and the emerging biorefinery industry.
IMPROVING WATER USE AND LIMITING POLLUTION IN INDUSTRY

2 Water Sensitive (Urban) Design

Vision - Integration of (urban) planning with the management, protection and conservation of the total (urban) water cycle

- Design of cities and industries that have a circular economy approach – where waste from one sector is a resource for another
- **Resource recovery cluster** - focuses of promoting recovery of useful products from wastewater and solids is an emerging frontier for wastewater treatment. These products including phosphorus, trace metals, biopolymers, chemicals, and reduced forms of carbon and nitrogen, as well as energy

- **Sustainability in Industry Working Group** is developing and collating a toolbox of products which will include succinct sustainability guidelines, proven analytical tools, templates for assessments, best management practices, and training materials for industry staff.
IMPROVING WATER USE AND LIMITING POLLUTION IN INDUSTRY

Vision – By proactively taking part in basin management, the city secures water, food and energy resources, **protects water quality**, and increases resilience to extreme events.

- **Alliance for Water Stewardship Standard** - offers a credible, globally-applicable framework for major water users to understand their own water use and impacts, and to work collaboratively and transparently with others for sustainable water management within the wider water catchment context.

- **Action Agenda for Basin Connected Cities** - aims to influence and activate urban stakeholders including industry to protect and invest in water resources with basin and catchment organisations. [http://www.iwa-network.org/projects/basin-action-agenda/]
IMPROVING WATER USE AND LIMITING POLLUTION IN INDUSTRY

Building water-wise communities

Vision – professionals becoming more “water-wise” in their area of expertise, and people becoming “water-wise” in their behaviours as citizens. Each stakeholder realises the role they have to play to make a difference.

- **UN-Water Compendium of Water Quality Regulatory Frameworks** – Resource for drafting regulatory instruments to better manage water qualities that are ‘fit for purpose’ can benefit from the wide range of standards and guidelines currently available.

- **The Lisbon Charter** is an international framework of good practice for public policy and regulation in drinking water supply, sanitation and wastewater management services.

- **IWA** is home to the **International Water Regulators Forum (IWRF)** - One of a kind global network for regulatory authorities and officials with regulatory & supervisory functions related to the water sector (including industrial water & wastewater)
Inspiring Change

Water and Development Congress & Exhibition

COLOMBO
SRI LANKA
01-05 DECEMBER 2019

World Water Congress & Exhibition

COPENHAGEN
DENMARK
18-23 OCTOBER 2020

LEARN MORE
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