



Water Solutions for Liveable
and Sustainable Cities

Singapore International Water Week 2012

*Maurice Neo
Managing Director,
Singapore International Water Week*



1 - 5 July 2012
Marina Bay Sands
Sands Expo & Convention Centre

SIWW Gaining Traction as a Global Water Event

Indicator	2008	2009	2010	2011
Total Number Participants	More than 8,500*	More than 10,000	More than 14,000 *	13,500
Total Number of Countries & Regions	79 *	82	112 *	99
Total Value of Announcements	S\$ 367million	S\$ 2.2 billion	S\$ 2.8 billion	S\$ 2.9 billion
Total Number of Business Forums	7	9	8	8
Total Number of co-located events	42	76	120	131
Total size of Water Expo	12,000 m ²	12,000 m ²	10,650 m ²	18,000 m²
Total Number of Exhibiting Companies	More than 350 companies	More than 420 companies	More than 514 companies	More than 600 companies
Total Number of Country/ Group Pavilions	6	4	8	15
Total Number of New Product Launches	25	28	26	37

* Together with World Cities Summit

Widespread Coverage in International & Local Media

PM: Water a strategic necessity for S'pore



At the grand-breaking ceremony of the Tampines plant yesterday men (from left) PUB chairman Tan Sri Poo, Minister for the Environment and Water Resources Eusebio Subido, Hyflux CEO Chiu Lam and Ho Gye Cheong, non-executive independent director of Hyflux.

Currently, up to 60 per cent of Singapore's water is provided for by local catchment areas and imports from Malaysia, 10 per cent from seawater and 30 per cent from Newater.

Singapore, he said, was likely to build a third desalination plant to meet water needs. But he was quick to add that "we don't want to overbuild either".

"There's a cost... associated with building up the capacity, so we will do this judiciously and carefully... this is a long-term plan," he told reporters.

One innovative feature of the new plant is that it is co-located with a combined cycle gas turbine power plant, which will supply the power for the desalination process.

Hyflux chief executive Chiu Lam said this has enabled higher efficiency and savings at the ends of water production.

The grand-breaking ceremony was a key event of the Singapore International Water Week (SIWW), an annual gathering of water experts and leaders from across the world.

But the highlight yesterday was a dialogue with Prime Minister Lee Hsien Loong - a new segment of this year's SIWW.

During the hour-long session attended by some 1,500 delegates, he took more than 10 questions, ranging from Singapore's water management strategy to how the Republic can help other countries.

Challenging Singapore's thinking on water issues, he said the Government started off with the approach that water is "not just an economic problem", but a "strategic necessity".

He went on to talk about how achieving self-sufficiency is important, with the first water agreement with Malaysia ending soon, and the second one ending in 2065.

For instance, the Government was also quick to invest in technologies such as desalination, when it became affordable to do so. It has also embraced other sources, such as Newater.

New approaches are also being tried out, Mr Lee said. This includes a variable salinity plant, a technology pioneered by national water agency PUB, which allows flexible treatment of both brackish and seawater according to salt content.

While there are "no magic solutions" to solving water problems, Mr Lee said such efforts will be a big boost. He said: "By 2060, I'm confident that we'll be able to be self-sufficient."

Capping yesterday's events, former prime minister Lee Kuan Yew handed out the Water Prize to Dr James Barnard, 75, for his work in recycling used water.

WHERE SINGAPORE'S WATER COMES FROM

	Now	By 2060, when the water agreement with Malaysia expires
Seawater	Up to 30 per cent	Up to 50 per cent
Recycled seawater	Up to 30 per cent	Up to 30 per cent
Recycled wastewater	Rest of demand	Rest of demand
Water imported from Malaysia	Rest of demand	Rest of demand
Water catchment areas	Two-thirds of Singapore	30 per cent of Singapore

Sources: PUB, ST (24/04/15)

Singapore's water demand is expected to double by 2060. Then, 50 per cent of its needs will be met by Newater, 30 per cent from desalination and 20 per cent from local catchment areas.

Newspapers & Publications

INTERNATIONAL Herald Tribune

THE STRAITS TIMES

THE BUSINESS TIMES

Thursday
Singapore International Water Week
Sustainable Water Solutions for a Changing Urban Environment
daily Solutions www.siw.com.sg

Water Week makes a bigger splash

Event's floor space has early doubled since first started in 2008
By Grace Chan

All opening exhibition hall of the Singapore International Water Week (SIWW) and Exhibition Centre is filled to the brim with water industry experts, and the display are spilled over to an equally large hall nearby.

This year, it held its first "Startup Day" in a packed ballroom on Tuesday, one 1,200 water executives and leaders to attend the global event. Prime Minister Lee Hsien Loong fielded questions about water policy.

This is Singapore International Water Week (SIWW) 2015, bigger than ever, its results show the number of companies taking part has risen to 300.

The Dutch section of the exhibition hall was about 100 sq m, roughly the size of a four-court tennis court. Last year, it took up 200 sq m of space. Today, its position is double the starting size.

This year, it held its first "Startup Day" to showcase its businesses. "It's probably going to be followed by a lot of countries next year," noted Mr Lee Hsien Loong, executive director of industry and commerce.

Mr Michael Lim, managing director of SIWW, told The Straits Times "Water is taking part that when it first began."

Additional \$140 million for water research

By Jessica Cheam

SINGAPORE has pumped fresh money into local water research to keep its edge as the leader in water technologies.

The sector will receive \$140 million to promote research and development (R&D) efforts, with the aim of converting these ideas into practical water solutions, Deputy Prime Minister Tharman Shanmugaratnam said yesterday.

That would in turn attract more investment and create more jobs in the industry.

The fresh funds allocated by the National Research Foundation (NRF) will bring the total R&D budget for the sector to \$470 million.

Mr Tharman made the announcement at the opening ceremony of the Singapore International Water Week (SIWW). Into its fourth year, the high-profile event features new water technologies and brings together global experts and leaders who will discuss how to cope with issues such as rising water demand.

Speaking to an audience of 1,800 last night, Mr Tharman said it is important to continue investing in R&D, even if "the gestation periods can be long before the pay-offs to new technologies are realised".

Water industry to grow, add more jobs

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Water industry set to grow by 2017 by 1 National University of Singapore, says James Barnard and PUB. The plan is to develop solutions for the urban water crisis, and it will launch a Singapore Science Centre - the first in its category.

"By working across boundaries, I can potentially fast-track the development of solutions of a better water use and make the challenge less daunting to everyone," he said.

Earlier in the day, Environment Minister Vivian Balakrishnan attended a launch event for the Water Week exhibition that was part of the SIWW.

She noted that issues of water management have become increasingly important because land-use constraints are particularly intractable to urban master plans, due to their limited heavily populated areas.

"That issue is a compelling one that needs greater commitment to invest more of these funds," he said.

Prime Minister Lee Hsien Loong was among SIWW delegates today.

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Strong Support for SIWW

International Supporting Organizations



Join us at SIWW 2012!

- **Date:** 1 – 5 July, 2012
- **Theme:** *Water Solutions for Liveable and Sustainable Cities*
- Held at the Marina Bay Sands, one of Singapore's iconic destinations
- Organized in conjunction with the 3rd World Cities Summit & inaugural CleanEnviro Summit Singapore



More Networking Opportunities for Delegates Interested in Urban Solutions



Held in conjunction with



• *Expected to attract more than 3,000 government leaders, policy makers and industry experts from around the world.*

www.worldcityssummit.com.sg

• *Theme “Liveable and Sustainable Cities – Integrated Urban Solutions”*

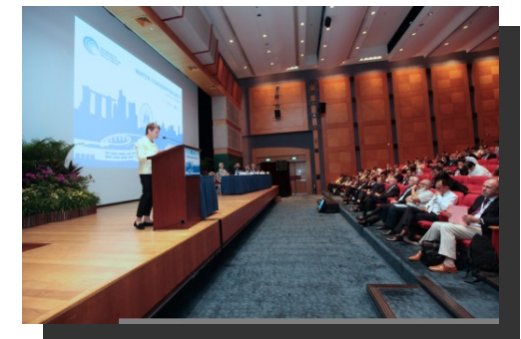
• *To explore how cities can build resilience and improve their quality of life and environment by adopting integrated solutions to increasingly complex challenges.*

• *An inaugural event organised by the National Environment Agency of Singapore (NEA)*

• *An **international platform** for thought Leaders, high-level officials and practitioners to network and exchange knowledge on the challenges, issues and opportunities in meeting the demand for **clean environment solutions**.*

Water Leaders Summit 2012 Programme

- **Joint SIWW-WCS-CESS Opening Plenary & In Conversation:** Opportunity to listen to and interact with world leaders
 - **Theme:** *"Governance and Leadership for Liveable and Sustainable Cities"*
- **City and Water Lecture:** Lecture and interactive dialogue with both the Lee Kuan Yew Water and City Prize Laureates
- **Water Leaders Roundtable (co-organized with IDA),** titled *"Water Planning for Liveable and Sustainable Cities"*
- **Water Leaders Workshop A (co-organized with Siemens),** titled *"Game Changing Water Technologies for Sustainable Cities"*
- **Water Leaders Workshop B (co-organized with Black & Veatch),** titled *"Innovation in Water Planning, Policies and Project Delivery"*



Highlights of Relevant and Exciting New Content At SIWW 2012

- **Water Convention:** The popular “*Hot Issues*” workshops will be back, with topics organized along Water Convention themes
- **TechXchange Workshop:** to bring together venture capitalists, private equity fund managers etc. together with industry representatives, start-ups and technology inventors to network and exchange ideas.
- **Industrial Solutions Forum:** will examine the challenges faced by industrial sectors (such the energy and manufacturing) in water management and how innovative solutions could address such challenges
 - **Theme:** “*Innovative Solutions to Water Sustainability for the Industrial Sector*”
- **Governance and Financing Forum:** will explore ground-breaking water infrastructure financing opportunities and discuss possible solutions to finance and implement key water infrastructure projects

1 July, PM

1 July, PM

3 July, PM

3 July, PM

An all-new experience at one of Singapore's iconic destinations

- An integrated resort in the heart of the city
- Recently named Asia's Best MICE Hotel by CEI Asia, a leading MICE magazine
- Singapore's largest and most flexible exhibition and meeting venue
- Entire Water Expo 2012 will be on a single level of covered exhibition space



Marina Bay Sands Integrated Resort



Sands Expo and Convention Center



Sands Skypark Observation Deck



Sands Skypark Infinity Pool

Programme @ a Glance

DATE	MORNING	LATE MORNING	AFTERNOON	LATE AFTERNOON	EVENING
Sun 1-Jul	Golf Classic		Co-located Events		Joint SIWW-WCS-CESS Opening Ceremony & Welcome Reception
	Technical Tours				
	Water Convention "Hot Issues" Workshops				
	TechXchange Workshop				
	WCS World Mayors Forum				
Mon 2-Jul	In-Conversation [with an eminent leader] & Joint SIWW-WCS-CESS Opening Plenary		LKY World City Prize Lecture & Singapore Water Lecture	Water Convention LKY World City Forum	Lee Kuan Yew Water Prize Award Ceremony & Banquet @ Ballroom, Marina Bay Sands
			CESS		
	Water Expo, WCS Expo, WasteMET Asia Expo				
	Water Leaders Summit Roundtable & Workshops				
Tue 3-Jul	Water Leaders Summit Roundtable & Workshops		Business Forums		Networking events by Partners
			Industrial Solutions Forum		
			Governance and Financing Forum		
	Water Convention				
	Water Expo, WCS Expo, WasteMET Asia Expo				
	WCS				
CESS					
Wed 4-Jul	Water Convention			Closing Dinner @ Gardens By the Bay (tbc)	
	Business Forums				
	Water Expo				
	WCS Learning Journeys				
Thu 5-Jul	Technical Tours		Co-located Events		
	Co-located Events				

Legend:

WCS: World Cities Summit

CESS: CleanEnviro Summit Singapore



Singapore International Water Week

See You at the Singapore International Water Week 2012!

To find out more on SIWW,

visit our website www.siww.com.sg

or

on Facebook <http://www.facebook.com/siww.com.sg>



Water for All: Conserve, Value, Enjoy