Global to Local: Perspectives from Singapore International Water Week

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Clean Water Services

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PUB, Singapore’s National Water Agency
Marina Bay Sands Convention Center and Hotel
Swimming Pool on the Roof of the Marina Bay Sands Hotel
Singapore

Area: 716.1 Km² (276 sq mi)
Population: 5.4 million
Avg Annual Rainfall: 2400 mm (94.5 in)
Avg Water Demand: 1.8 mil m³/day (475.5 MGD)

Adapted from PUB
## Water Sustainability for Singapore

<table>
<thead>
<tr>
<th></th>
<th>Demand</th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Domestic</td>
<td>Now</td>
<td>2030</td>
<td>2060</td>
</tr>
<tr>
<td></td>
<td>Non-Domestic</td>
<td>55%</td>
<td>60%</td>
<td>70%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supply</th>
<th>Stormwater</th>
<th>Now</th>
<th>2030</th>
<th>2060</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Imported Water</td>
<td>45%</td>
<td>30%</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>NEWater</td>
<td>30%</td>
<td>50%</td>
<td>Up to 55%</td>
</tr>
<tr>
<td></td>
<td>Desalinated Water</td>
<td>25%</td>
<td>20%</td>
<td>Up to 25%</td>
</tr>
</tbody>
</table>

Adapted from PUB
Singapore Water Rates (2013)

Average Water Bill < $35/month

Government subsidy for low income families $20 - 22/month

Domestic use up to 40 m³/month (10,570 gal/month) $1.17/m³ ($4.43/1,000 gal)

Adapted from PUB
## SIWW Growth

<table>
<thead>
<tr>
<th></th>
<th>Inaugural 2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Attendees</strong></td>
<td>8,500</td>
<td>10,853</td>
<td>14,515</td>
<td>13,500</td>
<td>19,231</td>
<td>20,000+</td>
</tr>
<tr>
<td><strong>Countries And Regions Represented</strong></td>
<td>79</td>
<td>82</td>
<td>112</td>
<td>99</td>
<td>104</td>
<td>118</td>
</tr>
<tr>
<td><strong>Participating Companies</strong></td>
<td>382</td>
<td>418</td>
<td>514</td>
<td>604</td>
<td>750</td>
<td>800</td>
</tr>
<tr>
<td><strong>Value of Business Announcements (Singapore $)</strong></td>
<td>367 mil</td>
<td>2.2 bil</td>
<td>2.8 bil</td>
<td>2.9 bil</td>
<td>13.6 bil</td>
<td>14.5 bil</td>
</tr>
</tbody>
</table>

Adapted from SIWW and PUB
SIWW held in conjunction with

SIWW includes:
• Water Leaders Summit
• Water Convention
• Water Expo
• TechXchange
• Hydro-gen
• Business Forum
• Industrial Water Solutions Forum
• Lee Kuan Yew Water Prize – Orange County Water District
Water Leaders Summit – Day 1

• In-Conversation
• Opening Plenary: *Shaping our Cities, Water and Environment for a Livable and Sustainable Future*
Water Leaders Summit – Day 2

- Water Leaders at the Breakfast
- Water Leaders Roundtable
- Water Leaders Dialogue B - *Future-Proofing our Cities*
Water Convention

• 40 technical sessions
• 170+ oral presentations
• 200+ posters
• 6 “Hot Issues” workshops
• And many more ...

on 5 themes:
1. Delivering Water from Source to Tap
2. Effective and Efficient Wastewater Management
3. Water for Livability and Resilience
4. Water Quality and Health
5. Water for Industries
Site Visit: Closing the Water Loop – A Sustainable Solution (NEWater)
NEWater Visitor Centre
Dinner Hosted by PUB
AMSA in Singapore!
Closing Dinner at SEA Aquarium
Prof. Tony Wong, Monash University

Courtesy of Prof. Tony Wong
Mural on the Interfaith Center Building at Case Western Reserve University
Perspectives from the Windshield
Echoes of our Past

Drives Where We are Today
And our Vision for the Future

Photo Credit: Marina Bay Sands Hotel Website
How We Choose to Live
Inspires Us

Clear Point Residences in Colombo, Sri Lanka  Bosco Verticale in Milan, Italy
Opens Possibilities for Tomorrow
Connect People to their Water
You are Cordially Invited

Rock Creek & Fernhill Tour

Watershed Tour
Logic will get you from A to B. Imagination will take you everywhere.

-Albert Einstein
Questions?

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