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# **Towards A Sustainable Future - THE SINGAPORE EXPERIENCE**

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# Whole-of-Nation approach to sustainability

- Awareness of environmental issues has been growing locally and internationally
- Under the Paris Climate Agreement, Singapore has pledged to peak emissions at 65 MtCO<sub>2</sub>e around 2030, and aspire to halve peak emissions to 33 MtCO<sub>2</sub>e by 2050, with a view to achieving net zero as soon as viable in the second half of the century
- Singapore aspires towards a low-carbon and resource efficient economy

## Inter-Ministerial Committee on Climate Change

Adaption

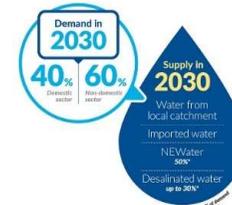
Mitigation



## Key national sustainability roadmaps



Climate Action Plan



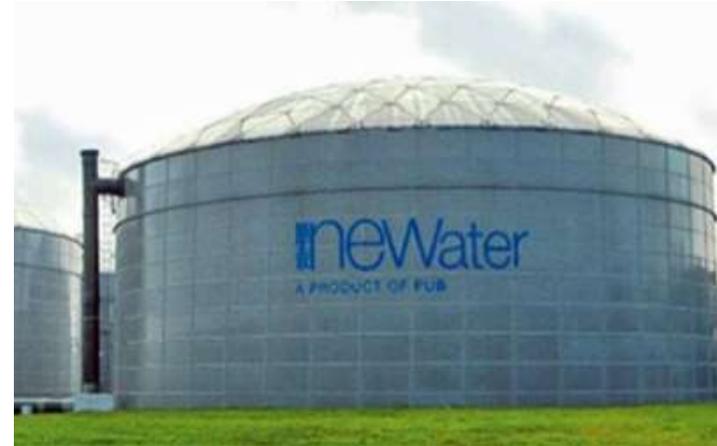
Singapore's Water Story



Zero Waste Master Plan

# Key Singapore's sustainability initiatives

Deploy 2GWp of solar power by 2030



Recycled waste water "NEWater" to provide 50% of Singapore's water needs

Singapore's waste management story  
Semakau landfill for incineration ash



Increase domestic recycling rate to 30% by 2030 (e.g. concrete made from slag produced from waste gasification)

# Standardisation efforts supporting Singapore's sustainability initiatives



## Environment

*Broad Level*

Development of ISO standards; providing principles, requirements and guidelines on environmental management, environmental labelling, life cycle analysis and greenhouse gas



Design, installation and maintenance of solar photovoltaics systems



Inter-operability requirements for electric vehicle charging system



Sustainable practices for urban farming



Benchmarks of energy performance for equipment



Framework and best practices for water efficiency management



Waste terminology, management and reduction practices

*Domain Level*

# Case study: Closing the waste loop



## Key standards supporting waste management

- Food Waste Management for manufacturer and retailer
- Code of Practice for Hazardous Waste Management
- Code of practice for pollution control
- Specification of equipment such as refuse waste collection and pneumatic waste conveyance system
- Management of End-of-life ICT Equipment
- Specification for aggregate in concrete
- Specification for compost
- Specification for recycling containers
- Accreditation of hook-lifts and containers use to dispose ash at landfill

## Summary

- Standards has played a critical role in helping Singapore to achieve its sustainability goals
- International standardization work has helped to harmonize sustainability practices and requirements globally
- Continued efforts required to develop new standards to support deployment of new technologies in the digital economy

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# Thank You

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