

SSMC Environmental Sustainability Efforts

Social Responsibility



Broad range of environmental activities are launched in SSMC

•Environment

- Certified to various environmental, health and safety standards such as OHSAS18001 and ISO14001.
- Nurture environmental consciousness among youths through the adoption of local schools.
- 3R program in SSMC: to reduce, recycle and reuse materials and energy, eg water.
- Reduce industrial waste, reduce and reuse chemical usage, replace and reduce global warming effect gases.

The 3 R's



Conserve Energy

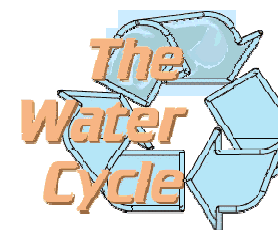


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•Highlights

- SSMC is the **first Wafer Fab in the world to implement NEWater**, a high grade reclaimed water produced from treated used water for our manufacturing processes. This initiative help to save water consumption through the use of recycle water, and at the same time fulfill the high-quality water requirement.



- SSMC has been always striving to reduce our environmental footprint by diligently fulfilling all environmental requirements of hazardous substances control, safety, health as well as quality standards. The following **certifications are achieved along SSMC's Business Excellence Journey:**


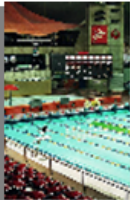

- **QC 08000 IECQ HSPM: The Certification for Hazardous Substances Regulations 2008**
OSHMS : Certified Occupational Safety & Health Management System since 2002
- OHSAS 18001 : Occupation Health and Safety Assessment Series since 2002
- ISO9001/14001 : Foundation system, basic standards certified since 2001



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•Environment - Ecovision (2006-2010) program

Parameter	Target	Actual (2008)	Highlights
1. Energy	(Normalized to m2) ≥ 8%	19% 	• Total savings of 13,393,650 kWh of electricity, which is equivalent to 2850 HDB 4-room flats consumption per year.
2. Water	(Normalized to m2) ≥ 15%	30 % 	• Total savings from projects: 414,564 m3 of water per year, equivalent to 166 Olympic size swimming pools.
3. Waste	(Normalized to m2) ≥ 3%	27 % 	• Total estimated waste reduction of 210 Tons per year
4. PFC Perfluoro- compound	≥ 10% reduction of 2003 level by 2010 (i.e <123kTon CO2)	Emission at 135 kTon CO2 for 08	• Save 7,000 Trees per year by 2010 