

**APPENDIX 2**  
**IMCSD PUBLIC CONSULTATION**

This report is jointly created by the people, private and public sectors in Singapore. Over the span of one year, the Inter-Ministerial Committee on Sustainable Development (IMCSD) and government officials met with members of the public, leaders of non-governmental organisations and businesses, members from academia, media editors, and Mayors.

Thousands of people responded enthusiastically to the consultations and contributed their ideas and aspirations for a Sustainable Singapore through various channels. The IMCSD received over 1,300 suggestions via the Sustainable Singapore website and more than 700 people participated in the focus group discussions, public forums and dialogue sessions. Grassroots leaders also contributed their ideas to the feedback agency, REACH (Reaching Everyone for Active Citizenry @ Home).

The public's views helped to shape the Committee's recommendations in the blueprint. The following are some examples of the key recommendations the IMCSD has adopted in direct response to the public feedback.

## Recycling

**What Some Suggested** There were many ideas on how to further promote recycling, including stepping up public education and providing more extensive recycling facilities.

**Our Response** NEA will study the feasibility of installing new infrastructure that can make recycling even more convenient. These include combined public litter and recycling bins, separate chutes for recyclables, and pneumatic

refuse conveyance system (PRCS) with a recycling function. A new 3R Fund will also be established to provide some financial assistance to companies to offset the cost of putting in place new recycling programmes.

## Green Buildings

**What Some Suggested** There were many suggestions on what government, businesses and individuals can do to reduce energy consumption, particularly in promoting green buildings (e.g. double glazing, tropical architecture), making public lighting more energy-efficient (e.g. phasing out incandescent light bulbs, having motion sensors for lighting in public places), and tackling "over-cooling" in buildings.

**Our Response** The government will establish a \$100 million Green Mark Incentive Scheme (Existing Buildings) to encourage the retrofitting of large existing buildings to include more green building features. The public sector mandates all large public buildings to undergo energy audits and adopt energy-saving measures. Some of these include upgrading existing chiller plants and maintaining ambient indoor air temperature at between 22.5°C to 25.5°C.

## Solar Energy

**What Some Suggested** Many Singaporeans have suggested the installation of solar panels within our public housing estates.

**Our Response** HDB will embark on an islandwide test-bed of solar technology within 30 public housing precincts. This will help HDB prepare for implementing solar technology on a wider scale when it becomes cost-effective to do so.

## PUBLIC FORUMS

Two public forums on 'Building a Sustainable Community' and 'Enhancing the Built Environment' were held in October and November 2008 respectively to discuss preliminary ideas for the blueprint. The forums were attended by more than 400 members of the public.

The forum on 'Building a Sustainable Community' was chaired by Minister for the Environment and Water Resources, Dr Yaacob Ibrahim, together with panellists Mr Howard Shaw (Executive Director of the Singapore Environment Council), Dr Josephine Kwa (Chief Operating Officer of NSL Ltd), and Mrs Teo Khin Hiang (then Principal of Commonwealth Secondary School). The panellists shared their views on how the people and private sectors could work with the public sector to build a community

with environmentally-friendly practices and behaviour that would contribute to sustainable development in Singapore.

The forum on 'Enhancing the Built Environment' was chaired by Minister for National Development, Mr Mah Bow Tan, together with panellists Associate Professor Lee Siew Eang (Director of the Centre for Total Building Performance and head of the Energy Sustainability Unit at the School of Design and Environment of NUS), Mr Tai Lee Siang (then President of the Singapore Institute of Architects), and Dr Shawn Lum (President of Nature Society). The panellists shared on the significant potential for energy savings in our built environment, how the architecture industry could promote green design, and the challenges of nature conservation in Singapore's urban context.

## Vehicular Emissions

**What Some Suggested** There were many calls for taxis and buses to emit fewer pollutants or switch to cleaner fuels such as CNG.

**Our Response** All new diesel vehicles are required to meet the Euro IV standard, which results in less harmful emissions. The LTA expects all taxis and buses to attain this standard by 2014 and 2020 respectively. The LTA will also trial the use of Diesel Particulate Filters (DPFs), a technology that can further reduce the emission of harmful substances, on a range of diesel-driven vehicles for possible widespread application. It will also study alternate fuel technologies such as hybrids.

## Cycling

**What Some Suggested** There were many calls to promote cycling, for instance, by establishing separate lanes and clear rules for cyclists, and installing better facilities (e.g. bicycle stands, shower/locker facilities) for cyclists.

**Our Response** LTA will be implementing cycling networks within HDB towns and providing parking facilities near MRT stations to promote cycling as an alternative mode of transport, especially for intra-town and short distance commuting to key public transport nodes.

## Greenery

**What Some Suggested** There were many suggestions on increasing the amount of greenery in Singapore, such as creating more park spaces in HDB estates, and utilising the rooftop spaces to plant more greenery.

**Our Response** NParks will be expanding our parkland by 900ha over the next 10 years, to bring our total parkland to 4,200ha by 2020. The length of park connectors will also be increased to 360km to make these parks more accessible. HDB will be developing green roofs on the top deck of multi-storey car parks. The government will incentivise existing building owners within strategic zones to implement green roofs and vertical greenery. URA will also be requiring new developments within strategic zones to provide landscape areas within the developments.

## Biodiversity

**What Some Suggested** There were many calls to conserve our natural biodiversity.

**Our Response** NParks will be developing the Singapore National Biodiversity Strategy and Action Plan to guide our efforts at conserving our natural heritage over the next 10 to 15 years. The Action Plan includes conducting new research and documentation as well as promoting public awareness and appreciation of Singapore's biodiversity.

## MAJOR CONSULTATION ACTIVITIES

### TIME PERIOD

January 2008

April 2008

June to July 2008

July 2008

July 2008

July 2008

July 2008

July to August 2008

August to September 2008

September 2008

### MILESTONES

The Inter-Ministerial Committee on Sustainable Development (IMCSD) was set up to formulate a national framework and strategy for Singapore's sustainable development in the context of the emerging domestic and global challenges.

NUS and NParks surveyed the general public and professionals including architects, landscape architects, developers and policy makers for their views on vertical greenery. The large majority indicated that they would like to see the implementation of vertical greenery in buildings in which they work or live, and felt that vertical greenery would help to enhance Singapore's image as a Garden City.

LTA held meetings with industry partners to discuss proposals to improve fuel efficiency and promote cleaner forms of transport. Possible trials to test the viability of diesel hybrid buses with private and public bus operators, diesel particulate filters on diesel vehicles, electric vehicles, and setting up a vehicle emissions test laboratory, were suggested.

A website, [www.sustainablesingapore.gov.sg](http://www.sustainablesingapore.gov.sg), was launched to solicit public feedback and suggestions on how we could make the way we live and play, commute and work more sustainable.

40 companies were surveyed on Energy Management System (EMS) and energy efficiency measures. The companies highlighted several barriers to adopting energy efficiency measures and gave suggestions on how these could be better implemented.

Singapore Packaging Agreement (SPA) Governing Board met the 34 signatories of the SPA to gather feedback. The signatories highlighted the need for more public education on the importance of reducing packaging waste.

HDB showcased the Yishun cycling track project at the "Enriching My Yishun" exhibition. 95% of the residents polled were supportive of having a more extensive network of cycling tracks in Yishun.

Site visits were conducted on premises with ongoing food waste recycling programmes. Companies gave feedback about the challenges in implementing food waste recycling.

HDB conducted a survey in Sembawang, Jurong, Aljunied, Ang Mo Kio and West Coast on the implementation of skyrise greenery in estates. A great majority of the residents supported the initiative to introduce more green roofs to existing multi-storey carparks (MSCPs).

LTA had discussions with advisors and grassroots leaders on the proposed cycling routes and measures to ensure riders' conduct.

## MAJOR CONSULTATION ACTIVITIES

### TIME PERIOD

September to December 2008

October 2008

October 2008

November 2008

November 2008

December 2008

December 2008

January 2009

January 2009

February 2009

March 2009

April 2009

### MILESTONES

BCA and relevant agencies met with an international panel of experts to discuss proposed initiatives in the Second Green Building Master Plan. Views of industry stakeholders were also taken in through three focus group discussions with developers, architects, construction companies, facilities managers, etc.

BCA met with more than 40 representatives from SIA, REDAS, ACE, IES, banks and building owners, construction material suppliers, facility managers and stakeholders from the Construction Industry on initiatives for the Second Green Building Masterplan.

First Public Forum – ‘Building a Sustainable Community’.

Public exhibition on Sustainable Development was held at the Marina Barrage in conjunction with the launch of Clean and Green Singapore. The exhibition was repeated at the National Library for 1 week in December 2008.

Second Public Forum – ‘Enhancing the Built Environment’.

HDB met with residents of Serangoon North to seek feedback on water-efficient appliances in households during the Save Energy, Save Money, Save the Environment exhibition at Serangoon North Ave 3.

IMCSD co-Chairmen had a dialogue with REACH’s Policy Workgroup on Physical and Environmental Sustainability. They discussed, among others, the possibilities of integrating urban developments with nature, and promoting greater public awareness through schools and grassroots organisations.

HDB met up with town councils to discuss plans to promote energy efficiency in common areas under the Energy SAVE Programme.

URA and NParks held focus-group consultations with representatives from developers (REDAS, etc) and building professionals (SIA, SILA, SIP, etc) to seek feedback for two proposed skyrise greenery related schemes.

HDB held focus group discussions with town councils to explore the use of solar panels in public housing.

Relevant Non-Governmental Organisations (NGOs) such as Nature Society were consulted on the draft National Biodiversity Strategy and Action Plans.

Launch of this report.