

MEDIA RELEASE

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COMMITMENT OF S\$68 MILLION TO MAKE SINGAPORE A LIVING LABORATORY FOR SOLAR ENERGY

Nine new private and public sector projects in Singapore will increase cumulative installed base of solar systems to about 5MW.

1. The Clean Energy Programme Office (CEPO) has awarded the first five private sector projects under the S\$20 million Solar Capability Scheme (SCS) with the Solar Pioneer Award. The projects are City Developments Limited's Tampines Grande, Lend Lease Retail's 313@Somerset, Robert Bosch's regional headquarters building, Lonza Biologics' manufacturing facility, and Applied Materials' manufacturing facility (*See Annex A*).

2. CEPO also announced the second wave of public sector projects under its S\$17 million Clean Energy Research and Test-bedding (CERT) programme. These are Ngee Ann Polytechnic, Changi Airport Budget Terminal, National Environment Agency's Meteorological Station and Khoo Teck Puat Hospital (*See also Annex A*).

3. With these new public and private sector projects, Singapore's cumulative installed base of solar systems will increase from just 200kW in mid-2008 to about 5MW. The performance and climatic impact data from CEPO's public and private sector test-bed sites will be captured by the newly launched National Solar Data Repository, which is jointly set up by the Solar Energy Research Institute of Singapore (SERIS) and Singapore Polytechnic. The

two organisations will analyse the data gathered so as to help proliferate best practices and know-how in system installation and integration in the Singapore environment.

4. The testbed projects were chosen based on innovation, design, effectiveness and skills development. Some examples of capabilities developed from these projects include Building Integrated Photovoltaics (BIPVs) which combine building materials with solar PV, decreasing balance of system costs, fabricating new clips to hold solar panels on steep rooftops and utilising solar thermal air-conditioners.

5. These projects will also create ample opportunities for the various players in Singapore's solar ecosystem such as system integrators, architects, engineers, developers and technology providers to hone their expertise and build up track record, which would position them for global opportunities.

6. "Singapore aims to be a 'Living Lab' where companies can develop, test-bed and demonstrate innovative urban solutions before scaling up for the rest of the world. We believe this new group of solar test-bedding projects will help build up critical capabilities of the solar players here in preparation for grid parity. Once grid parity arrives, these skill-sets will enable the players to move quickly and capture the commercial opportunities that will open up from mass adoption," said Dr Beh Swan Gin, Managing Director of the EDB and Executive Director of CEPO.

7. These project announcements come on the back of the recent launch of the Sustainable Singapore Blueprint (SSB) in April 2009 and reflect the strong push by the government to encourage green buildings in which clean energy is one of the key considerations. "The Building and Construction

Authority's (BCA) 2nd Green Building Masterplan serves as a national roadmap for Singapore to achieve the goal of having 80% of all our buildings to be BCA Green Mark certified by 2030. These solar testbed projects would contribute in no small way to our national green building push. I am pleased that all the recipients of the Solar Pioneer Award have attained Green Mark Platinum and Gold ratings for their projects and this reflects the holistic eco-friendly approach being adopted by developers in Singapore," said Dr John Keung, CEO of BCA and Co-Executive Director of CEPO.

8. These projects are complementary to the Housing Development Board's (HDB) S\$31 million solar test-bedding project which aims to fit solar panels in 30 HDB precincts by 2015. Together with SCS and CERT, the total commitment of the government for solar testbeds is S\$68 million.

9. Singapore has identified the Cleantech industry as a strategic economic growth area. S\$680 million has been committed by the government to build R&D and manpower capabilities for the clean energy, environment and water technology sectors. SCS, CERT and the National Solar Data Repository are part of this commitment. Singapore aims to grow the Cleantech industry to generate S\$3.4 billion in value-added and attain 18,000 jobs by 2015.

*Annex A: Summary of Solar Testbed Projects supported by the Government
CD-rom: High resolution photos of the projects*

About Clean Energy Programme Office (CEPO)

The Clean Energy Programme Office (CEPO) is Singapore's key inter-agency workgroup responsible for planning and executing strategies to develop Singapore into a Global Clean Energy Hub where clean energy products and solutions are developed here for the global market.

Set up in April 2007, CEPO leverages the strengths of various government agencies - the Economic Development Board (EDB), Building & Construction Authority (BCA), Agency for Science, Technology and Research (A*Star), Energy Market Authority (EMA), National Environment Agency (NEA), International Enterprise Singapore (IE Singapore) and Ministry of Trade and Industry (MTI) for a comprehensive approach to develop the clean energy industry.

Through the various agencies, CEPO grows and nurtures local and foreign Clean Energy companies through comprehensive cluster development, targeted internationalisation efforts, fostering of world-class research and technology development, and long-term manpower planning.

About the Solar Capability Scheme (SCS) and Clean Energy Research and Testbedding (CERT) programme

The Solar Capability Scheme (SCS) and Clean Energy Research and Testbedding (CERT) programme are two of several initiatives by CEPO to groom the solar industry in Singapore.

Launched in 2008 for the private sector, the S\$20 million SCS seeks to encourage innovative design and integration of solar panels into green buildings. The objective of the scheme is to build up the capabilities of companies in the solar ecosystem through increased adoption by lead users in Singapore. The Scheme applies to all new buildings in the private sector which meet a minimum Green Mark Gold standard¹, a benchmarking system administered by BCA.

The S\$17 million CERT is targeted at the public sector and complements the SCS. Launched in 2007, CERT aims to provide opportunities for companies to develop and trial Clean Energy applications and solutions using government buildings and facilities in Singapore.

About the Singapore Economic Development Board

The Economic Development Board (EDB) is the lead government agency for planning and executing strategies to enhance Singapore's position as a global business centre and grow the Singapore economy. We dream, design and deliver solutions that create value for investors and companies in Singapore. In so doing, we attract economic opportunities and jobs for the people of Singapore, and help shape our country's economic future.

For more information on how EDB can help in your business and investment, please visit www.sedb.com

¹ More on the Green Mark Gold Standard can be found at the Building & Construction Authority's website. Link: <http://www.bca.gov.sg/GreenMark/GMIS.html>

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Annex A: Summary of Solar Testbed Projects supported by the Government

Private Sector (SCS)	Building Type	System Size (kWp)
Applied Materials Manufacturing Facility	Industrial	366
CDL Tampines Grande	Commercial	108
Lend Lease Retail 313@somerset	Commercial	76
Lonza Biologics Manufacturing Facility	Industrial	181
Robert Bosch SEA HQ Building	Commercial	88

Public Sector (CERT)	Phase	System Size (kWp)
BCA Zero Energy Building	1	190
HDB Sembawang & Serangoon North	1	146
NParks Gardens by the Bay	1	TBC
PUB Marina Barrage	1	70
Singapore Polytechnic	1	47
Changi Airport Budget Terminal	2	250
Khoo Teck Puat Hospital	2	150
Ngee Ann Polytechnic	2	14
NEA Meteorological Services Building	2	25

HDB Testbed under Sustainable Singapore Blueprint	System Size (kWp)
HDB	3,100