

Embargoed till 1.30pm, 21 August 2014

Global Brands exploit Hot Technologies to Beat Global Warming

***Glaxo Wellcome Manufacturing, Grand Hyatt Singapore and
Novotel Singapore Clarke Quay emerge Top Three***

Singapore, 21 August 2014 – The 17th Singapore Environmental Achievement Awards' (SEAA) stringent selection process saw eight distinguishable organisations receive awards, with Glaxo Wellcome Manufacturing Pte Ltd (Glaxo), a subsidiary of the GlaxoSmithKline Group, clinching both the coveted SEC-CDL Outstanding Singapore Environmental Achievement Award and the SEC-Setsco Singapore Environmental Achievement Award for Manufacturing.

Glaxo and Grand Hyatt Singapore (Grand Hyatt) stood out as front runners in waste heat recycling in their respective industries by integrating new technology solutions in these areas. In a tropical country like Singapore, massive waste heat emissions from manufacturing and even service industries like hotels can intensify the effects of global warming. If companies recycle their waste heat, they can reduce heat emissions, generate their own electricity, save costs and reduce reliance on fossil fuels.

Remarking on the 17th SEAA, Mr Jose Raymond, Chief Executive Officer of the Singapore Environment Council (SEC) said: "The strong attraction of the SEAA to global powerhouses is testament to our prestige as the leading environmental award in the industry. We have seen a marked increase in sophistication of our applicants, and this year was no exception. Many surpassed our expectations, coming up with novel and beneficial solutions that will serve as an inspiration to others in the private and public sectors."

Glaxo had successfully adopted a dual-purpose combined technology to integrate waste heat and solvent recovery technologies into one complete system. Prompted by CEO Sir Andrew Witty, Glaxo targeted being the 'Sustainable Factory of the Future', and proceeded to reduce their carbon footprint from 5% to 8% in 2013.

In response to their win, Mr Lim Hock Heng, VP and Managing Director of GlaxoSmithKline commented: "The two pharmaceutical manufacturing sites in Singapore began our sustainability journey in 2003 with an energy conservation programme and we now have a comprehensive sustainability strategy that will prepare us to be future-ready and to support GSK's ambition to be carbon neutral by 2050. Winning both the Manufacturing as well as the coveted Outstanding category in this year's Singapore Environmental Achievement Award is a huge milestone in our sustainability journey – we thank the Singapore Environment Council for this endorsement."

Returning participant and 2008 Merit Winner, Grand Hyatt, won the SEC-Senoko Energy Green Innovation Award after developing a retrofitted trigeneration plant to recycle waste heat for the hotel's back-end support. After facing challenges in logistics within the high-density belt of Orchard

Road, this hotel will now see an elimination of 60,000 litres of diesel and reduction of 720 metric tons of carbon dioxide emissions, while producing 30% of its very own electricity. While the origins of the project started as a simple collaboration between the National University of Singapore and some interns, Mr Ivan Leong, Director of Engineering Grand Hyatt Singapore nurtured and supported the project throughout and said: "At Grand Hyatt Singapore, we focus on the value we create through our technological innovations. We also believe in fortifying our foundation of community engagement, especially through the nurturing of young talents who have contributed to the success story of the trigeneration plant."

SEC's Mr Raymond, who was thrilled at both, the quantity of new technologies employed and the quality of applicants this year, remarked: "To have a merit winner back in 2008, win an award six years on, shows the non-stop continuing momentum and effort of our SEAA applicants. Such persistence and resolute can only lead to a better tomorrow, where every man, woman and child can experience a more beautiful environment."

Notwithstanding technological innovations, Novotel Singapore Clarke Quay's (Novotel) recognises the importance of the human factor in the green pursuit. The hotel's simple 'towel reuse initiative' has the mechanics to accumulate savings of close to S\$17,000, while allowing for more than 2,000 trees to be planted. "In today's ever-changing business environment, the need to conserve energy and natural resources is paramount in the way we practise and operate our business. We feel that the reduction of carbon emissions does not only begin with the hotel property, we will also need to undertake guest-oriented initiatives," said Mr Kevin Bossino, General Manager of Novotel Singapore Clarke Quay.

In addition to changing its chiller and heating systems to energy saving models, Novotel even managed to recycle 150kg of soap, much to the benefit of one of our Asian neighbours. Mr Bossino added: "We also believe in giving back to the community by sending our collected soap for recycling to Cambodia. These are just among the many initiatives that Novotel has undertaken in our Planet 21 Sustainable Development Program."

The winners for the six award categories for SEAA 2014 are:

- **SEC-CDL Outstanding Singapore Environmental Achievement Award**
 - Winner: Glaxo Wellcome Manufacturing Pte Ltd

- **SEC-Setsco Singapore Environmental Achievement Award (Manufacturing)**
 - Winner: Glaxo Wellcome Manufacturing Pte Ltd

- **SEC-Kimberly-Clark Singapore Environmental Achievement Award (Services)**
 - Winner: Novotel Singapore Clarke Quay
 - Merit Winner: Ricoh Asia Pacific Pte Ltd

- **SEC-Lee Foundation Singapore Environmental Achievement Award (Public Sector)**
 - Merit Winner: Holy Innocents' Primary School
 - Merit Winner: Fuchun Secondary School

- **SEC Singapore Environmental Achievement Award (Regional)**
 - Merit Winner: Keppel Land JV company, Tanah Sutera Development Sdn Bhd

- **SEC-Senoko Energy Green Innovation Award**

- Winner: Grand Hyatt Singapore
- Merit Winner: Carrier Singapore

“It is with fervent hope, while I wholeheartedly congratulate all the participants this year, we gather again sometime in the future, yet again to compare notes, to learn from each other and to challenge ourselves, to be at the prime of both our commerce and the environment,” added Mr Raymond.

All winners received their awards from Guest-of-Honour, Dr Vivian Balakrishnan, Minister for the Environment and Water Resources at the InterContinental Singapore.

**** END OF MEDIA RELEASE****

NOTES TO THE EDITOR



ABOUT THE SINGAPORE ENVIRONMENTAL ACHIEVEMENT AWARDS

The SEAA is one of the distinguished pioneer green awards in Singapore. Launched in 1997 to inspire local commitment to corporate best practices in environment, the awards have blossomed into a regional affair in the past 17 years. From the public sector to manufacturing and services industries, the SEAA has been key to influencing some of the best practices in corporate sustainability.

Applicants undergo rigorous independent assessments conducted by the Technical Work Group based on competitive judging criteria to be declared winners in each of six award categories. The Technical Work Group puts forth the recommendations to the Steering Committee, which determines the final selection of winners.

For more information, please visit www.sec.org.sg/seaa.



ABOUT THE SINGAPORE ENVIRONMENT COUNCIL

Established in 1995, the Singapore Environment Council (SEC) is an independently managed, non-government organisation that nurtures, facilitates and co-ordinates environmental causes in Singapore. SEC's work is founded on three pillars of action – Firstly, partnership with the people, private and public sectors of Singaporean society, to nurture a culture aligned with sustainable development concepts. Secondly, SEC rewards environmental excellence through awards schemes and product endorsement programmes, such as the Singapore Green Labelling Scheme. Thirdly, the SEC collaborates with partners to develop and implement training and learning programmes to build competencies in environmental sustainability within companies, thus keeping our business leaders ahead of the curve. Visit our website at www.sec.org.sg.

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ANNEX I

About SEAA Winners

Glaxo Wellcome Manufacturing Pte Ltd

GlaxoSmithKline (GSK), one of the world's leading research-based pharmaceutical and healthcare companies, is committed to improving the quality of human life by enabling people to do more, feel better and live longer. GSK's Global Manufacturing and Supply (GMS) network spans 69 manufacturing sites in 31 countries. In Singapore, there are two GMS sites located in Quality Road and Jurong supplying Active Pharmaceutical Ingredients for the treatment of respiratory, oncology, gastro-intestinal, allergy, anti-viral, HIV and neurological conditions for the global markets. Jurong site is also a key New Product Introduction site in GSK whilst Quality Road site is one of the world's largest Amoxicillin facilities.

Novotel Singapore Clarke Quay

Novotel Singapore Clarke Quay is driven by Accor's Planet 21 Sustainable Development Program focusing on 21 initiatives to reduce the hotel's carbon footprint. The hotel has achieved the highest level with distinction, 'Platinum' status.

This includes adopting the following green practices in our hotel:

- Changing the boilers to heat-pumps, eliminating carbon emissions;
- Changing to LED lights;
- Improving efficiency of chiller plants and systems;
- Changing to energy efficient water tap fittings;
- Using eco-friendly chemicals;
- Centralising our recycling bin centre, recycling papers, card boxes, cans, bottles and soaps, etc;
- Recycling all used soap which were given to underprivileged families;
- Our Plant for the Planet programme encourages guests to hang towels and not wash towels. Every five towels not washed, Accor will plant a tree.

All these efforts have reduced our energy and water consumption and costs tremendously whilst reducing our carbon footprint to make a more sustainable hotel.

Grand Hyatt Singapore

Grand Hyatt Singapore adopts a focused and cohesive approach to managing our operations efficiently and works on minimising the impact of our business on the natural environment - in line with Hyatt Hotels Corporation's commitment to the environment. This is achieved through the integration of innovative technology and astute asset management to provide safe and comfortable accommodation and workspaces for both guests and employees, while committing to a path of sustainability.

Housing the world's first retrofitted trigeneration plant in the hotel; the plant consists of a gas-driven generator powered by town gas, a hybrid boiler and a patented desiccant-dehumidifier - jointly designed by the National University of Singapore and Grand Hyatt Singapore. Trigeneration enables the hotel to produce up to 30% of our own electricity while waste heat is used for the production of hot water and steam, and cooling for outdoor air dehumidification.

ANNEX II

About SEAA Merit Winners

Ricoh Asia Pacific Pte Ltd

Ricoh is a global technology company specializing in office imaging equipment, production print solutions, document management systems, and IT services. Headquartered in Tokyo, Ricoh Group operates in about 200 countries and regions.

Ricoh focuses on the development of environmental technologies. To achieve both reduction in environmental impact and creation of economic value, Ricoh provides customers with products that generate low environmental impact throughout the product lifecycle.

Total Green Office Solution, is a business tool that supports visualizing, analyzing, and minimizing environmental impacts and costs incurred at each stage of selection, use and recycling of Ricoh products and services.

In 2007, together with Singapore Environment Council, Ricoh embarked on the perpetual Eco Action Day campaign to raise the public awareness of climate change issues by rallying organizations to join an environmental event as a corporate commitment.

Fuchun Secondary School

Fuchun Secondary School is proud of her caring culture which includes caring for the environment. Thus Green Monday is specially dedicated to GAIA when staff wear green and a green club activist shares a green message. That same Green Monday, GAIA ambassadors bring recycled materials to the Green Corner. Throughout this journey, Fuchun has achieved the Lotus Award for the SEC's School Green Awards in 2012 and 2013, and a Gold Award for 3Rs Awards in 2013.

The school's mission is to nurture life-long learners, empower them to lead and inspire them to explore. An innovative project which the school embarked on, "Of Nature and Numbers" epitomises this mission. A collaboration work between the Math and Science departments and other school partners saw a showcase of interactive activities which was held in conjunction with the Festival of Biodiversity. The project was shared at the MOE ExCEL Fest in 2014 to show that environmental learning is authentic and exploring the beauty of Math in nature is inspiring.

Holy Innocents' Primary School

At Holy Innocents' Primary School (HIPS), our environmental education is guided by the school vision of CARE, "Caring heArts, cReativE minds" in providing a quality holistic education for every child. Our school's core values - Sincerity, Charity, Graciousness, Integrity, Self-discipline, Resilience have been incorporated into our Total Curriculum. In our Environmental Education @HIPS Framework, we adopt the 3E approach of Experience, Enrich and Excel, reinforce the 3R Approach of Respect for Self, Respect for Others and Respect for the Environment and integrate the 3Rs- Reduce, Reuse, Recycle into the varied environmental education programmes to nurture socially-responsible citizens.

HIPS partner many agencies and stakeholders to build a pervasive and sustainable "green culture". The active involvement of the school leaders, staff, pupils and parents in driving the innovative environmental practices have led to the achievements of SEC's Lotus Sustained Achievement Award since 2010 and the Sustained 3R Achievement Award since 2011. Moving forward, the school will enhance its environmental conservation efforts within the community.

Keppel Land JV Company, Tanah Sutera Development Sdn Bhd

Tanah Sutera Development Sdn Bhd, a Keppel Land joint venture company, is a Malaysia-based developer with over two decades of experience in Johor Bahru. Its land bank includes over 1,200 acres of land in the Iskandar Malaysia region.

Its integrated township of Taman Sutera comprises over 12,000 residential and commercial units, a vibrant shopping mall and an education hub.

As a socially responsible developer, Tanah Sutera has introduced various green initiatives within the township to create and nurture a sustainable community, including the incorporation of Effective Microorganism (EMTM) Technology in the development and maintenance of its projects. The team is also a strong advocate of the 5R Philosophy, which is to Rethink, Reduce, Reuse, Recycle and be a Responsible member of the community.

Tanah's Sutera's green efforts were first recognised in March 2013 when it was conferred the Johor Green Award by the State Government. The achievement of the Merit Award for the SEC Singapore Environmental Achievement Awards (Regional) 2014 is testament to the company's steadfast commitment towards environmental sustainability and spurs the team on as it strives towards becoming a zero-waste EM township.

Carrier Singapore

As a founding member of the Singapore Green Building Council, and the only company in the world to also be a founding member of the U.S, Argentina, China, France and India green building councils, Carrier believes green products must start at a green company.

Carrier applies a rigorous, formal review during its product development process to minimize the environmental footprint of its products while maximizing environmental technologies. With a strong focus on offering environmentally responsible products, the company has continued to innovate and expand its industry-leading portfolio of high-efficiency products.

Carrier Singapore has been a leading provider of air conditioning systems in Singapore for more than 60 years, providing reliable air conditioning systems and services to support the country's rapid growth. Carrier, the world leader in heating, air-conditioning and refrigeration solutions, is part of UTC Building & Industrial Systems, a unit of United Technologies Corp.

ANNEX III

About SEAA's Sponsors

City Developments Limited

- Sponsor of the SEC-CDL Outstanding Singapore Environmental Achievement Award

As Singapore's property pioneer, City Developments Limited (CDL) is a listed international property and hotel conglomerate with over 34,000 luxurious and quality homes and over 110 hotels worldwide. Driven by its mission to 'Conserve as it Constructs', CDL has integrated Corporate Social Responsibility into its business since 1995. This vision and commitment has placed CDL at the forefront of Singapore's built environment.

CDL has been leading the industry with green building innovation since the 1990s and was awarded the Green Mark Platinum Champion Award in 2011 and the Built Environment Leadership Platinum Award in 2009 by Building and Construction Authority for its commitment to sustainable development and setting benchmark for best practices in Singapore's built environment. To date, CDL has over 70 Green Mark-certified properties, with 32 accorded Green Mark Platinum – the highest amongst private developers on both fronts.

Globally, CDL is the first Singapore company to be listed on three global sustainability benchmarks – FTSE4Good Index Series (since 2002), Global 100 Most Sustainable Corporations in the World (since 2010) and Dow Jones Sustainability Indices (since 2011). CDL was also named a Regional Sector Leader for Asia in the Global Real Estate Sustainability Benchmark Report 2013.

For more information, please visit www.cdl.com.sg.

Kimberly-Clark Professional*

- Sponsor of the SEC-Kimberly-Clark Singapore Environmental Achievement Award (Services)

As a leading provider of professional health, hygiene and safety solutions, Kimberly-Clark Professional* partners with businesses to create Exceptional Workplaces helping to make them healthier, safer and more productive. Known for its quality, innovative and wide comprehensive range of smarter product solutions, our essentials are used in away-from-home washrooms, lodging, commercial properties, food services, aviation, healthcare and industrial manufacturing environments. The global brands of Kimberly-Clark Professional* include Kleenex, Scott, WypAll, Kimtech, and Jackson Safety.

Kimberly-Clark Professional's 'Reduce Today, Respect Today' sustainability program introduces a comprehensive approach to reducing environmental impact by managing every stage of a product's lifecycle, from raw materials, manufacturing, to product use and disposal.

Kimberly-Clark Professional* is one of Kimberly-Clark Corporation's (NYSE: KMB) four business sectors. To see how we are helping people the world over, work better, please visit www.kcprofessional.com.sg.

Senoko Energy Pte Ltd

- Sponsor of the SEC-Senoko Energy Green Innovation Award

Senoko Energy Pte Ltd is Singapore's largest and most efficient power generation company, providing more than a quarter of Singapore's electricity. Since 1976, Senoko has been serving

Singapore's power generation needs, and has established a strong reputation as a reliable and dependable market leader.

Senoko is the first generation company in Singapore to import piped natural gas from Malaysia; the first to repower its plant; the first to adopt combined cycle technology; as well as the first genco to be certified ISO 9001, 14001 and OHSAS 18001.

Senoko Energy is owned by an international consortium comprising Marubeni Corporation, GDF SUEZ S.A., The Kansai Electric Power Co., Inc., Kyushu Electric Power Co., Inc. and Japan Bank for International Cooperation. Senoko Energy has three subsidiaries: Senoko Energy Supply Pte Ltd, a leading retailer of electricity and related services; Senoko Services Pte Ltd, a provider of fuel storage tank leasing and terminal services; and Senoko Gas Supply Pte Ltd, a gas operations company.

Setsco Services Pte Ltd

- Sponsor of the SEC-Setsco Singapore Environmental Achievement Award (Manufacturing)

Setsco Services Pte Ltd is one of Singapore's leading and largest testing and inspection companies accredited by SAC-Singlas to ISO/IEC 10725 and by SAC to ISO/IEC 17020 and ISO/IEC 17065.

With offices in Singapore, Malaysia and Philippines, Setsco collaborates with established institutions, professional bodies and government agencies in providing testing, calibration, inspection, consultancy, training and certification services to the aerospace, marine and offshore, pharmaceutical, oil and gas, petrochemical, food, building and construction and electronics manufacturing industries. With specialisation in the fields of mechanical, chemical and civil engineering, metrology, environmental, biological and non-destructive testing, Setsco is capable of offering a comprehensive range of reliable services to meet the diversified and ever-growing needs and demands of the industries.

Built on a vision of sustainable technological development and strong industry relations, Setsco strives to be a one-stop service provider to all sunset and emerging industries and establishes itself as a reliable business and testing partner.