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**Infrastructure Enhancements at Republic Plaza to Result in Energy Savings of S\$870,000 Annually**

***Trane recognizes developer and building owner City Developments Limited with Energy Efficiency Leader Award***

**Singapore, 21 November, 2012** – Singapore's leading property developer, City Developments Limited (CDL), recently completed infrastructure upgrades to its Republic Plaza building, one of Singapore's tallest skyscrapers, making it one of the most efficient buildings in Singapore.

The anticipated energy savings at Republic Plaza are estimated at 4 million kilowatt-hour of energy, or an annual savings of S\$870,000. This is equivalent to powering up 1,300 four-room Housing Development Board (HDB) flats annually. The 66-storey, 280-metre-high Republic Plaza is a Grade A office building located at Raffles Place, at the heart of Singapore's Central Business District.

CDL completed the improvements to enhance the building's energy efficiency and to provide a more comfortable and productive working environment for building tenants.

The property developer demonstrated a strong ongoing commitment to sustainability throughout their property portfolio. Annual electricity savings from CDL sustainable buildings are estimated at approximately S\$19.7 million for their 37 buildings which received Green Mark certification between 2008 and 2011.

To date, CDL has achieved an overall portfolio of 62 Green Mark certified developments, of which 21 hold the highest-tier Platinum status, the most of any private developer in Singapore. The Green Mark Scheme is a benchmarking system used by Singapore's Building and Construction Authority (BCA) which incorporates internationally recognised best practices in environmental design and performance for buildings.

As a result of Republic Plaza's improved environmental performance following the infrastructural enhancements, the building received the Green Mark Platinum Award earlier this year.

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**Infrastructural Enhancements at Republic Plaza to Result in Energy Savings of S\$870,000 Annually - 2**

In recognition of Republic Plaza's outstanding energy efficiency and sustainability efforts, [Trane](#), a leading global provider of indoor comfort systems and solutions and a brand of Ingersoll Rand, is presenting CDL with the "Energy Efficiency Leader Award."

Details of the award presentation:

- CDL will be recognized at an award presentation on 21 November at 11 a.m. at The Tower Club, Singapore
- Mr. Cheng Sin Yew, country general manager for Trane in Singapore, will present the award to Mr. Anthony Goh, deputy general manager of property and facilities management for investment properties for CDL

"CDL has reaped tremendous benefit financially and socially from its sustainability efforts and is setting a leading example for other leading developers in Singapore and throughout Asia," said Mr. Cheng Sin Yew, country general manager for Trane in Singapore.

"In line with CDL's ethos to 'conserve as we construct', we have been championing green buildings in Singapore for over a decade," said Mr. Anthony Goh, deputy general manager of property and facilities management at CDL. "Beyond designing and building our new developments with environmental sustainability in mind, we have also been committed to improving the environmental performance of our existing buildings. As a building owner who has been actively greening our existing properties, the cost savings and reduced carbon footprint as a result of enhancing energy efficiency makes a compelling business case for infrastructural investment.

"In the case of Republic Plaza, we expect to recover the retrofitting cost from energy cost savings in five years time, or even earlier, should electricity tariff rates continue to increase in the near future."

With its recent upgrade, Republic Plaza is well on its way to be a high performance building.

High performance buildings take a whole-building approach to performance while creating spaces that are reliable, safe, healthy and efficient. They meet specific standards for energy and water consumption, system reliability and uptime, environmental compliance, occupant comfort and other factors. All standards are set to deliver established outcomes that help building owners and occupants achieve their business mission.

**Customized energy conservation measures selected**

Prior to selecting energy conservation measures, CDL completed an energy audit to identify the best solutions.

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**Infrastructural Enhancements at Republic Plaza to Result in Energy Savings of S\$870,000 Annually - 3**

Based on the results of the audit, upgrades at Republic Plaza included replacing the 15-year-old chillers with new high efficiency centrifugal chillers which have full load efficiency of 0.495kW/Rton, one of the lowest ratios globally. This efficiency makes Republic Plaza one of Singapore's most efficient commercial buildings.

Republic Plaza's new high performance cooling system encompasses a variable primary pumping chilled water system as well as smooth low loss piping and ducting for major chilled water and condenser water pipes within the chiller plant room.

The building also features proprietary algorithms to optimise chilled water system plant efficiency, in response to load and ambient weather conditions.

Trane has also set up a high accuracy monitoring system capable of meeting Green Mark V4 specifications for accuracy, trending at one-minute intervals and storing data for a decade or more. A web-based interface is installed to provide easy access to all data in graphic and spreadsheet format to allow information sharing for qualified users.

CDL has also invested in various green initiatives for Republic Plaza such as installing LED lighting in the multi-storey car park with motion detection features to dim the lighting level to 50 percent when there is no traffic.

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**About City Developments Limited**

As Singapore's property pioneer, City Developments Limited (CDL) is a listed international property and hotel conglomerate with an impressive track record of over 22,000 luxurious and quality homes to its name.

Beyond shaping the cityscape with award-winning architectural icons such as The Sail @ Marina Bay, The Oceanfront @ Sentosa Cove and St. Regis Residences, Singapore, over the past four decades, CDL has been leading the industry with green building innovation since the 1990s.

Testament to its commitment towards sustainable development and exceptional contributions towards Singapore's built environment, CDL was awarded the Green Mark Platinum Champion Award in 2011 and the Built Environment Leadership Platinum Award in 2009 respectively by the Building and Construction Authority (BCA).

In championing the green cause, CDL not only focuses on engaging its stakeholders and the wider community through various platforms – but also in cultivating environmental consciousness and action amongst the next generation.

Globally, CDL is the first Singapore corporation to be listed on all three of the world's top sustainability benchmarks: the FTSE4Good Index Series (since 2002), the Global 100 Most Sustainable Corporations in the World (since 2010) and the Dow Jones Sustainability Indexes (since 2011). For more information, visit: [www.cdl.com.sg](http://www.cdl.com.sg).



## News Release

### **About Ingersoll Rand**

Ingersoll Rand (NYSE:IR) advances the quality of life by creating and sustaining safe, comfortable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Schlage®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; secure homes and commercial properties; and increase industrial productivity and efficiency. Trane solutions optimize indoor environments with a broad portfolio of energy efficient heating, ventilating and air conditioning systems, building and contracting services, parts support and advanced control. Ingersoll Rand is a \$14 billion global business committed to a world of sustainable progress and enduring results. For more information, visit [ingersollrand.com](http://ingersollrand.com) or [trane.com](http://trane.com).