



Fact Sheet about Penang Times Square Energy Efficiency Leader Award

- Selected High Efficiency Systems Are 30 Percent More Efficient Than Conventional Systems -

<p>What's Happening</p>	<p>Penang Times Square, a new shopping mall developed by Ivory Properties Group in Georgetown, Penang, Malaysia, features one of the country's most energy-efficient chilled water systems. The new systems represent a commitment to environmental responsibility by the mall's developers, Ivory Properties Group, and consultant, GH Consultants Sdn, Bhd. The new infrastructure systems installed in the shopping mall are expected to achieve 0.63 kW/ton system efficiency, which will make them 30 percent more efficient than conventional chilled water systems found in typical commercial buildings in Malaysia. Because of their demonstrated commitment to energy and operational efficiency, Ivory Properties Group and GH Consultants Sdn., Bhd. will receive the Trane "Energy Efficiency Leader Award" on April 22. Ivory Properties Group and GH Consultants will be the first organizations in Malaysia to receive this honor.</p>
<p>About Penang Times Square</p>	<p>Penang Times Square is a four-phase, mixed-use commercial and residential project targeted for completion within the next few years.</p>
<p>About Ivory Properties Group</p>	<p>Established in 1999, Ivory Properties Group is a developer that serves Penang and Northern Malaysia. Their portfolio includes medium- to high-end apartments, luxury condominiums, and semi-detached and bungalow homes, boutique gated communities, and retail and commercial lots. All of their projects have been completed on, or even ahead of schedule and adhere to the highest standards of workmanship and quality control.</p>
<p>About GH Consultants</p>	<p>GH Consultants Sdn. Bhd. is a renowned mechanical and electrical consulting firm in Penang, Malaysia. Its founder, Ir Yeoh Ghim Hwa, focuses on green technology, innovation and energy efficiency design. He is also one of the first group of Green Building Index (GBI) accredited facilitators in Malaysia</p>
<p>Performance Contract</p>	<p>The RM 7.6 million shopping mall chilled water plant project is designed and installed with a performance contract, an option that provides a method for developers to manage and optimize their energy use. A performance contract allows them to leverage the energy use and operational savings to support strategic business objectives.</p>
<p>Selected Systems</p>	<p>The 400,000-square-foot shopping mall, opened in late 2009, represents phase one of the four-phase project at Penang Times Square. Although the mall was initially designed to include a conventional air conditioning system, Ivory Properties Group leaders, with the support and advice of GH Consultants, opted for the more energy-efficient chilled water system, which better reflects Ivory Properties Group's corporate commitment to environmental responsibility. The chilled water system is expected to prevent the production of 797 tons of carbon dioxide annually. This is equivalent to the environmental contribution of 35,000 trees per year.</p> <p>The chilled water plant at Penang Times Square features three high-efficiency chillers, including one 500-ton and two 1,000-ton chillers, along with a state-of-the-art consolidated, Web-based control and monitoring system. The plant features precision temperature sensors to ensure the integrity of performance data. The chilled water plant is designed to use low-temperature chilled water, resulting in lower energy consumption by pumps and cooling towers. Within the chilled water plant, piping for the chilled water and the condenser water moves with minimal flow resistance thanks to an innovative design that eliminated 90-degree elbows.</p>

Energy Efficiency Award	<p>The “Trane Energy Efficiency Leader Award” recognizes the importance of building improvements that optimize a building’s environment while increasing operational efficiency. The award also recognizes the building owners’ and managers’ commitment to energy efficiency and environmental responsibility.</p> <p>To qualify for the award, the building has to satisfy very stringent criteria, setting benchmarks for the industry.</p> <ol style="list-style-type: none">1. Chiller plant efficiency of 0.6 KW/ton or better (this reflects total system efficiency)2. There must be “proven energy savings” through accurate and verifiable data3. Corporate social responsibility (CSR) efforts and company commitment to the environment and sustainability
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About Trane

Trane, a business of Ingersoll Rand - the world leader in creating and sustaining safe, comfortable and energy efficient environments - improves the performance of homes and buildings around the world. 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 controls for homes and commercial buildings. For more information, visit www.Trane.com.

For more information, reporters may contact: Joan Schimml, (651) 407-3897, joan.schimml@trane.com.