



Fact Sheet about Transitions Optical Energy Efficiency Leader Award
 — Upgraded Systems Have Lowered Energy Required to Produce Each Lens by 50 Percent —

What's Happening	<p>The Transitions Optical plant in Tuam, County Galway, Ireland, is more clearly focused on energy efficiency and environmental stewardship than ever before. Plant managers recently completed upgrades that are generating €144,000 in annual energy savings and have reduced the energy required to produce each lens by 50 percent. Upgrades also increased system reliability and created a more comfortable and productive working environment for employees. In recognition of their demonstrated commitment to energy efficiency and environmental responsibility, the plant's executives will receive the Trane "Energy Efficiency Leader Award" on April 22. The Transitions Optical plant will be the first organization in Ireland to receive this honor.</p>
About the Tuam Transitions Optical Plant	<p>Transitions Optical, Inc., has five manufacturing facilities worldwide that produce the optical industry's top photochromic lenses — lenses that darken on exposure to ultraviolet radiation. Producing lenses for optical manufacturers globally, the 170 employees at the Tuam plant manufacture lenses primarily for the Europe/Middle East/Africa (EMEA) region.</p>
About Transitions Optical	<p>Transitions Optical is a joint venture of PPG Industries, Inc., and Essilor International. In 1990, Transitions Optical was the first to successfully commercialize a plastic photochromic lens. Transitions Optical offers the most advanced photochromic technology in the widest selection of lens designs, materials and brand names.</p> <p>Transitions® lenses are a preferred choice for healthy sight. They are clear indoors and at night. Outdoors, they automatically darken and lighten in response to changing ultraviolet light conditions. Transitions lenses improve visual comfort and quality by reducing glare and enhancing contrast. They also block 100 percent of harmful UVA and UVB rays – helping to protect eye health.</p>
Selected Systems	<p>Initiated in December 2006 as part of an ambitious improvement program, the €260,000 project was completed in August 2008. The plant needed to address rising energy costs and aging infrastructure systems. Prior to selecting system upgrades, Transitions Optical engineers conducted a building audit to identify the best energy conservation measures to meet their needs. Plant engineers then developed a three-year replacement program to upgrade all chilled water systems and controllers with more efficient models. In addition, the project includes a Trane chiller plant manager system to ensure that chiller operation load matches demand.</p> <p>The replacement program produced an immediate 25 percent reduction in capital equipment costs by using only three units instead of four. A centralized chiller plant control and management system integrated all chillers, circulating pumps and related equipment into one energy-efficient system. Automation has saved the company €432,000 over the past three years. This has saved enough electricity to run the plant for three additional days every month.</p> <p>To maximize production uptime, the upgrades were completed in phases to reduce the impact on production and, with the help of Trane, downtime was kept to a minimum. Additional fine-tuning to achieve the optimal operating point for the system was completed with no production downtime required.</p>

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.

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