Our footprint reduction initiatives

Footprint reduction initiatives



- Retrofitting T-8 and halogen lighting with energy-efficient LED, T-5 and CFL alternatives and maintaining appropriate lux levels
- Refurbishing modular working areas to create aesthetically-pleasing, open-plan office spaces
 that maximize natural light and feature ergonomically-sound stand-up work desks, spaces for
 collaboration and accessible meeting areas
- Refurbishing areas with carpets, tiles and paints that emit zero or very low levels of volatile organic compound (VOC) emissions
- Using energy-efficient variable refrigerant volume (VRV) air conditioning systems
- Optimizing performance and energy-efficient retrofits of chillers and ventilation systems
- Consolidating equipment and installing energy-efficient blade servers and virtual machines in our server rooms, as well as conserving energy by improving airflow and enclosing areas that have high-intensity cooling requirements
- Turning off lights, computers, monitors and printers when not in use
- Implementing an automatic computer and lighting shutdown policy outside of working hours
- Maintaining office and server room temperatures at levels that minimize energy use
- Using renewable energy where feasible; photovoltaic panels generate a portion of our Istanbul office's electricity demand

Footprint reduction initiatives



- Implementing environmental management systems (EMS) at all of our facilities
- Three sites in China and one in Thailand certified to the ISO 14001 EMS standard, with more in the pipeline
- Installing LED lighting in newly-built warehouses and replacing existing halogen lighting with LED in restructured warehouses
- Continuing to implement Logistics' Lean Transport initiative that includes:
 - > Optimizing the proximity of DC facilities to supplier and customer locations
 - > Maximizing vehicle loads, minimizing truck mileage, reducing empty vehicle returns and consolidating customer deliveries
 - > Phasing out pre-Euro IV diesel commercial vehicles with the phased introduction of Euro V and VI vehicles
 - > Improving route planning to reduce fuel consumption and GHG emissions
 - > Introducing an electric delivery van to Hong Kong's vehicle fleet with plans to expand the fleet
 - > Awarding drivers that consume less fuel than the monthly fuel consumption standard
- Using environmentally-responsible materials in building construction and refurbishment
- Reducing energy consumption by maximizing natural light with skylights and installing highefficiency induction lighting, motion sensors, and large and energy-efficient ceiling fans to enhance air ventilation in non-air-conditioned areas
- Installing LED lighting in newly-built warehouses and replacing existing halogen lighting with LED in restructured warehouses

- Reducing energy consumption from air conditioning by changing the control sequence of the
 units to use less units, and aligning the heater workload and water spraying control valve
- Reorganizing DC operations to streamline processes, increase automation and reduce waste, and adopt more energy-efficient equipment
- Operating forklift vehicles that have rechargeable electric batteries and safely reusing fit-forpurpose parts from retired forklifts for vehicles in operation
- Using handheld monitoring devices with rechargeable batteries that are linked to centralized databases to monitor inventory and thereby reduce paper consumption and enhance the efficiency of warehouse operations
- Planting trees and vegetation to reduce heat and dust in warehouse areas and capturing rainwater for landscape irrigation to reduce water consumption
- Installing filtered water stations that meet required drinking water standards to reduce waste arising from plastic water bottles
- Using machines and rope to reduce the consumption of plastic shrink wrap in the warehouse and bundling packages for delivery to reduce packaging waste

Footprint reduction initiatives

- Implementing environmental management systems (EMS) that are certified to the ISO 14001
 EMS standard at our facilities in Bangkok, Jakarta and Kuala Lumpur
- Our facility in Trowbridge, which is audited to meet the Soil Association's organic standard,
 has been recognized as a Marks & Spencer ECO Factory since 2011 and as a Sedex member
 since 2004. The facility is also annually audited to meet the requirements of the Sedex Members
 Ethical Trade Audit (SMETA). Our facilities in Bangkok, Jakarta, Kuala Lumpur and Tonawanda
 are also audited to meet SMETA requirements
- Adopting environmentally-responsible and efficient technologies and systems to reduce energy consumption and GHG emissions, which include:
 - > Overall and progressive retrofitting of existing lighting with LED throughout our operations with, for example and as at the end of 2015, our Jakarta facility being 70% along its complete conversion to LED lighting
 - Operating a solar thermal project at our Bangkok facility that uses a hybrid system to combine energy from solar thermal collectors with waste heat from an economizer unit to generate hot water for the boiler that produces steam for use in the production process. Energy and water consumption is reduced and liquid petroleum gas (LPG) is no longer used for the boiler, resulting in savings of over US\$16,000 per year in fuel cost and reduced air and GHG emissions
 - > Operating purpose-built hot rooms with more efficient air circulation and thermostatic control
 - > Cooling product formulations below 35°C and automating the cooling schedule to reduce energy consumption
 - > Upgrading heating and cooling systems to improve efficiency and adopt cleaner energy sources, for example our facility in Jakarta converted its boiler from diesel to natural gas
- Installing inverters to control the speed of the air handling unit (AHU) fans, variable frequency drives (VFD) for air conditioning units and more efficient air compressors with software control
- Installing a hot box to warm ingredients used in the manufacturing of personal care products at our Tonawanda facility to make the process both more energy efficient and safer than with electric-powered heating bands or steam collars

Trading – Manufacturing Facilities

- Conducting energy assessments as part of all capital expenditure upgrades to ensure energyefficient equipment, fixtures and features are adopted
- Reducing the consumption of water, oil and chemicals, by optimizing and upgrading production and wastewater treatment processes and adopting oil-free compressors, which also require less maintenance
- Our new beauty research and development facility in Thailand was certified to LEED Platinum
 in 2015. The facility is projected to save over 68,165 kWh or the equivalent of 47 metric tons of
 carbon dioxide (CO2) per year through the adoption of environmentally-responsible features,
 including:
 - Solar photovoltaic system to generate 48,214 kWh of electricity per year, representing 40% of the building's designed annual electrical power requirements, which is equal to a cost saving of over US\$5,000 per year
 - > Automation system that maintains optimum performance and efficiency levels for lighting, air conditioning and ventilation. The system uses high-efficiency, air-cooled water chilling equipment to provide 30% more fresh air than the minimum required standard, which maintains a healthy and productive environment for our people
 - > Sensor system that constantly monitors CO2 levels in office and laboratory areas to ensure safe levels are maintained
 - > LED lamps consuming 34% less energy than CFL and T5 lighting
 - > Paints and coatings with zero or minimal VOC (volatile organic compound) content
 - Highly-reflective paints and glazing, which cover over 90% of the wall and window areas and block 30% more solar heat radiance than ordinary glazing materials, save energy required for air conditioning and provide abundant daylight conditions in working areas

Our new beauty research and development facility in Lamlukka, Thailand.



