Across all global locations in 2018, including global supply chain, sales and administrative, we emitted 20.9 pounds of CO$_2$e per 100 pounds of total production.

- Goal 2.0% reduction per year from 2017 baseline

Seriously Cool Innovations

China team develops two new energy-efficient wall coating systems

Our Consumer Brands Group (CBG) team in China recently developed two new energy-efficient wall coating systems — one for interior walls, Valspar Thermal Insulation All-In-One, and one for exterior walls, Valspar Energy Efficiency Professional Heat Reflecting Exterior Wall Coating System. Both are unlike anything else available in China.

“When the interior wall paint was launched into the market, there were no other products with a similar energy-efficiency concept,” says William Kou, R&D Manager. “This concept is very successful in the market.”

The interior wall paint — designed for use on residential walls — contains additives to help reflect the sun’s heat, keeping walls cooler and decreasing indoor energy consumption. Other additives make the coatings water-resistant and breathable — reducing surface water absorption and promoting evaporation, which lowers humidity levels, so homes feel more comfortable.

“It’s one of the more high-end products offered in China. It meets the demands of families in the high-end residential market,” says Kou. These customers aspire to live a more sustainable lifestyle that includes a lower energy footprint.

For the exterior wall coating system, R&D Manager Roy Lv explains the team discovered “that our competitors only focused on the reflective thermal insulation function of the main layer of the finishing coat,” instead of every coating layer in the system. “We determined this function could be extended to the entire coating system, allowing us to offer a unique product.”

The exterior wall coating system has a cooling pigment that reflects sunlight, reducing the overall absorption of solar energy and lowering surface temperatures by five to six degrees Celsius when applied on the outside of residential buildings. “A 12-story apartment building with eight units on each floor can save 6.4 megawatt hours (MWh) of energy each year,” says Lv.

“The exterior wall coating system is especially well-suited for residential building markets in the eastern and southern parts of China,” he explains, “where there are more days with high temperatures compared to other areas. So, there’s a stronger demand there for this coating system.” The new product already has gained a large share of the Shanghai market.

Employees at the South China Technology Center (SCTC) in Shunde, China spent nearly two years developing both the interior and exterior wall products. Adds Lv, “I’m proud of the chemists’ professional dedication and the whole team’s cooperative spirit that made these products possible.”