



WWF Low Carbon Manufacturing Programme (LCMP)

Quarterly Newsletter

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Success Story

K+K Fashion Company Limited is located in Hanoi, Vietnam. The factory covers an area of about 40,000 sq.m. and is one of Hong Kong-based Lawsgroup's subsidiary factories, with other subsidiaries located in Shenzhen and Zhuhai in China, Bac Ninh in Vietnam, and in Bangladesh and Myanmar. Established in 2008, K+K specializes in the manufacture of knitted garments, with their clients mainly located in Europe and the U.S. The company has always paid attention to both environmental protection and social responsibility in their business practices. In 2016, K+K joined the LCMP and received a Gold label the same year. The factory adopted numerous carbon reduction measures, including:

- Installing DC energy saving servo motors in the factory's sewing machines, enhancing the electricity utilization rate to over 79 per cent. These servo motors are expected to reduce K+K's annual electricity consumption by 380,000 kWh and lower carbon emissions by more than 250 tonnes annually.



DC energy saving servo motors

- Using a water curtain system to reduce the ambient temperature in production areas, reducing K+K's annual electricity consumption by 210,000 kWh and lowering their annual carbon emissions by more than 141 tonnes when compared to a traditional cooling system.



Water curtain system

- Using compressed air to suck thread ends in the sewing machines instead of electric motors. This change is expected to reduce annual electricity consumption by 35 per cent and lower annual carbon emissions by more than 70 tonnes.



Suction duct in sewing machine

Implementation of the LCMP in Vietnam

LCMP launches in Vietnam!

Climate change is a growing problem for countries all around the world. Vietnam is one of the countries that has the most at stake, as they will be heavily impacted, with the Mekong Delta being one of the world's top three deltas that are most vulnerable to sea level rises. These changes are happening now: over the past 50 years, the mean temperature in Vietnam has increased by between 0.5 and 0.70°C, and the sea level has risen by 20 cm. Climate phenomena like El Niño have contributed to several serious, irreversible natural disasters. To help combat climate change, the Government of Vietnam has established several key carbon emissions reduction targets: reduce the carbon intensity by 8-10 per cent as compared to the 2010 levels; reduce energy consumption per unit of GDP by 1-1.5 per cent per year; and reduce carbon emissions from energy activities by 10 to 20 per cent compared to the business as usual scenario. The government has also established environmental laws and is actively promoting clean fuel and renewable energy.

Today, Vietnam is major production base for the clothing and footwear industries, and in recent years electronic product manufacturers have also started building factories around the country. The LCMP's timely arrival in Vietnam will help factories in the country reduce their carbon emissions and establish best practice benchmarks for similar industries. So far this year, three apparel factories in Vietnam have joined the LCMP and completed the verification process.



Vietnam factory joined the LCMP

LCMP updates and activities

The LCMP is organizing a series of engagement activities over the coming months, including:

- The Seventh LCMP Labelling Award Ceremony (December)
- The 2016 LCMP report on accredited factories (December)
- Webinar on energy efficiency and carbon emissions (November)
- Launch of the new LCMP e-learning platform (November)

For more details, please contact the LCMP team at any time!

Best practices: Maxturn Apparel Company Limited – Textile and Wearing Apparel Industry

Maxturn Apparel Company Limited is another Lawsgroup subsidiary factory. Maxturn is located in Bac Ninh, Vietnam and covers an area of about 21,000 sq.m. Established in 2007, the factory specializes in the manufacture of knitted garments. Maxturn also joined the LCMP in 2016 and received a Gold label the same year. The factory has adopted numerous carbon reduction measures, including:

- Installing a hanging system to achieve semi-automatic production, saving time and improving energy efficiency
- Adopting a solar water heater for employee showers in the dormitory, saving operating costs and improving energy efficiency
- Using automatic cutting machines to improve the accuracy of cutting and hence reducing the defect rate and saving labour costs
- Recycling waste water from washing processes and the dormitory and reusing it as toilet flushing water, saving up to 600 tonnes of water annually
- Installing 18W LED lamps in place of 28W T5 lamps, reducing annual electricity consumption by 75,000 kWh and lowering annual carbon emissions by 46 tonnes.



Hanging system



Solar water heater



Automatic cutting machine



Waste water recycling system



LED lamps