



WWF Low Carbon Manufacturing Programme (LCMP)

Quarterly Newsletter

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The 2016 LCMP and LOOP Joint Labelling Award Ceremony

In 2016, 13 factories were accredited with Low Carbon Manufacturing Programme (LCMP) labels, while 26 offices were given Low-carbon Office Operation Programme (LOOP) labels. On 19 December last year, WWF organized a joint labelling award ceremony to recognize these low-carbon business and industry leaders.

The long-term carbon reduction goal of both of these programmes is to help the participating companies transition to a state of zero carbon emissions. At this year's ceremony, we invited the LCMP and LOOP awardees to participate in a plenary session discussing the zero carbon roadmap. Mr Zhang Yijun, the Group Vice President of Ningbo Klite Electric Manufacture Co., Ltd. (or "Klite"), mentioned that the factory had installed a rooftop solar PV system to convert solar energy into electric energy. The installation of this system not only supports the carbon reduction policies of the Chinese government, it also supplies electricity to the factory and reduces electricity costs at the same time. Klite specializes in the manufacture of LED and energy-saving lamps. Making use of their professional knowledge of lighting, the company has advocated for – and helped to establish – standard for classroom healthy lighting. The company also designed and built a demonstration classroom in compliance with national healthy lighting standards and produces their own lighting systems using no strobe, glare or blue light.



Presentation of LCMP Platinum Label



Forum on Zero Carbon Roadmap

Also at the plenary session, representatives from Wharf T&T Limited, Hong Kong Broadband Network Ltd., Kai Shing Management Services Limited and Laws Fashion Group Limited discussed a series of carbon reduction measures designed to reduce carbon emissions in offices across Hong Kong. These included installing LED lighting, improving air conditioning systems, installing video conference systems, establishing climate change education centres and purchasing carbon offsets.

It may sound surprising, but commercial organizations sometimes do not need to spend any money on installing energy saving facilities, as different investment companies and schemes exist to help commercial organizations invest in various energy saving projects. For instance, Ningbo Klite's solar PV project is funded by an energy company. Klite itself is responsible for providing rooftop space for the system, and in return the company enjoys a discount on electricity charges. Similarly, Hong Kong Broadband's LED lighting is funded through an energy management contract, with the electricity cost savings shared with the energy management company.

Solar power starts up in 2016 – Ningbo Klite

The Ningbo Klite Electric Manufacturing Co., Ltd. specializes in the manufacture of LED and energy-saving lamps. The company joined the LCMP in 2012 and received a Gold label in both its 2014 and 2016 verifications. In recent years, the Chinese government has begun actively advocating the use of renewable energy. This impetus led to a collaboration between Klite and an energy company to develop a rooftop solar PV project with a system capacity of around 0.6MW. The company installed 2,200 solar panels, with each panel having a capacity of 270W, on a 10,000 square metre rooftop. The electricity generated is fully used during the production process.

Klite provides the rooftop space for the system and is given priority usage of the electricity generated by the project, provided at a discount of fifteen per cent off local electricity charges. Based on the amount of electricity produced during the project's initial stages, when installed, the full solar panel system will generate an estimated total of around 660,000 kWh annually, amounting about 8.8 per cent of Klite's total energy consumption. This will allow the company to reduce its annual carbon emissions by around 460 tonnes. Thus, by making efficient use of natural resources, the project not only reduces operating costs, it also brings Klite into alignment with national environmental policy. This solar panel system forms part of a solid foundation the company are laying for their future sustainable development strategy.

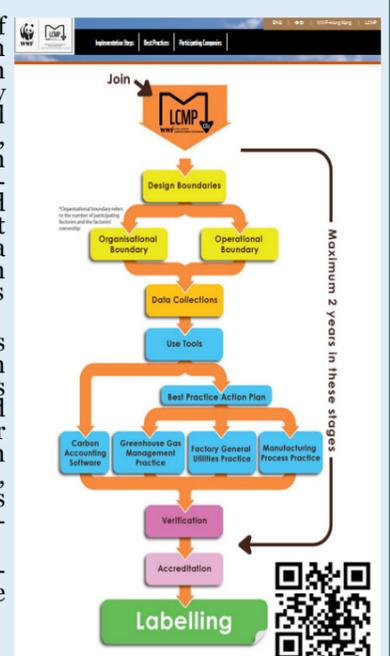
Launch of the LCMP self-learning educational platform

Many companies receive a great deal of information about carbon reduction measures through multiple sources. In spite of this fact, there are still many companies that may not have a full picture of their actual carbon footprint, carbon intensity, sources of carbon emissions and other carbon reduction-related issues. Such companies may find it difficult to achieve significant reductions in carbon emissions due to a lack of knowledge and experience in mastering carbon reduction technologies and solutions.

In view of this fact, the LCMP team has designed a simple self-learning platform which focuses on carbon reduction. This platform will help company staff and management discover more about other factories' best practices, common greenhouse gas emissions sources, guidelines for using LCMP tools, updates on market trends and other climate-related information.

For more information on the LCMP Self-Learning Educational Platform, please visit:

<https://apps.wwf.org.hk/lcmp/en>



Summary of the 2016 LCMP report

Of the 13 LCMP-accredited companies, four received an LCMP Platinum label, seven received a Gold label and two were awarded Silver labels. Cumulative figures from 26 LCMP-accredited companies compiled over the past two years show that the programme participants achieved an average annual reduction in carbon intensity of about 5.9 per cent. Despite a substantial cumulative business growth of 96 per cent, these companies still managed to avoid about 142,000 tonnes of carbon emissions and reduced their absolute carbon emissions by about 12,000 tonnes between the base year and the performance year. A total of 18 accredited companies which had completed a minimum of two verifications had their performance scores analysed in three areas – the overall verification score, greenhouse gas management and energy efficiency. The results of this analysis were overwhelmingly positive: in the companies' recent verifications, the average scores in all three areas were higher than their first-time verifications. Additionally, 74 per cent of the companies that enjoyed business growth were still able to reduce their carbon intensity.

In 2016, the LCMP was extended to Vietnam. Three apparel factories in Vietnam have now joined the programme and have completed the verification process. We are confident that the LCMP will be extended to other countries in the near future. To view the full report, please visit:

awsassets.wwf.org.hk/panda.org/downloads/wwf_lcmp_report_web_151219.pdf

