

BIGC PILOT

Mueang, Samut Prakan Province, Thailand

2015

BigC Pilot Project / Supermarket

Airlite Sunlight Exterior

PROJECT DESCRIPTION / NEEDS

To reduce the demand for cooling in buildings, heat reflective coatings have become increasingly popular as a passive measure to reduce and stabilize indoor temperatures. Airlite is a revolutionary paint technology with industry-leading high solar reflectance (Solar Reflectance Index of 112). In addition to the energy saving capabilities, Airlite improves the air quality by reducing airborne pollutants (such as emitted by vehicle). Big C has expressed its interest in the Airlite technology with the motivation to reduce energy consumption of its stores. For this purpose, Airlite's local team in Thailand has performed a pilot project at a Mini Big C branch.



APPLICATION / UTILIZATION

The temperature inside/outside the store, the electricity consumption of all air-conditioning units and the total electricity demand of the store were measured for a period starting 10 days before and ending 10 days after the application of the paint (application of the paint on Feb 8th - Feb 11th 2015). A third party, the Energy Conservation Centre of Thailand "ECCT", was mandated to measure electricity consumption of the store. It was shown that through Airlite, electricity usage of the air-conditioning units in the store was reduced significantly by 28.66%, saving 31.45 kWh on average per day, which corresponded to 4.9% of total store demand. Taking the price for the paint and the application into account, a ROI of 14.8 month is calculated.



Main products / systems used:

Airlite Sunlight Exterior



CUSTOMER BENEFITS

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