

Low Carbon Building Design

Carbon Emission Estimation (CEE)

To echo with Hong Kong's Climate Action Plan 2050, we continue to conduct Carbon Emission Estimation (CEE) assessments for all new public housing development projects at the design stage. CEE is a life cycle assessment method that evaluates a building's carbon emission from construction to demolition, i.e. from cradle to grave. Our evaluation considers carbon dioxide emissions from materials used in the structure, materials consumed during construction, electricity consumption by communal building services installations, demolition activities, and the emission off-sets generated by renewable energy applications and greening. These data help us establish benchmarks and set improvement goals to enhance sustainability. In 2022/23, we conducted CEE for eight new public housing development projects and achieved a reduction of over 17% in estimated carbon emission since we first introduced CEE in 2011.

