

# Using Ecotect to Improve Energy Conservation for Older Buildings

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## Abstract

Energy conservation and carbon reduction have become the emphasis of governance in countries of the world as global warming is increasing quickly. This study assessed building energy efficiency, proposed plans for enhancing building energy efficiency, and assessed the effectiveness of enhancement; in order to comply with the green building specification and save energy for sustainable development. The target building was assessed according to the major items in the "energy conservation target" of Taiwan's system for "ecology, energy saving, waste reduction, and health" (EEWH) and Ecotect. These included the "efficiency of lighting" (EL), "efficiency of air-conditioning" (EAC), and "building enclosure energy-efficient value" (EEV). Buildings must pass these three items in order to pass the energy conservation assessment.

Keyword : Energy conservation; building information modeling; Ecotect; energy efficiency; lighting energy conservation