

SBS5421 Building Energy Efficiency cum Carbon Emission

<http://ibse.hk/SBS5421/>

Tutorial Exercise 01

1. Explain the meaning of investment grade audit and describe the four important tasks needed to complete such an energy audit.

Ans:

2. Explain the benefits of energy performance contracting for financing energy efficiency investments in existing buildings.

Ans:

3. The main target of the Energy Saving Plan for Hong Kong 2015-2025+ is to reduce the energy intensity (energy demand per unit of economic output) by 40% by 2025 using 2005 as the base. Given the following information, calculate the energy intensity in 2005, the economic output in 2025, the energy intensity in 2025 if the 40% target is achieved exactly, and the respective energy demand in 2025.

Energy demand in 2005 (final energy requirements) (TJ)	331,559
Economic output in 2005 (gross domestic product GDP at current market prices) (HK\$ million)	1,382,590
Annual growth rate of economic output GDP for 2005-2025	5.5%

Ans: