

# BEI LABELLING

- ❖ Aims to encourage government staff to improve the energy intensity of their buildings
- ❖ Suruhanjaya Tenaga (ST) as the implementing agency responsible in verifying a building's data and issuing the label
- ❖ Provides information on the energy performance of a building

For enquiries and clarification, please refer to:

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# NATIONAL BUILDING ENERGY INTENSITY (BEI) LABELLING FOR GOVERNMENT BUILDINGS

# WHAT IS BEI ?

- A benchmarking tool in monitoring building energy performance by indicating the intensity of energy used per meter square area of the building
- The Index is calculated by taking the ratio between annual energy consumption of a building (kWh/year) and nett floor area of the building (NFA)

$$BEI (kWh/m^2 /year) = \frac{\text{Annual Energy Consumption (kWh)}}{NFA (m^2)}$$

## BEI LABELLING BENEFITS



Ascertains energy performance of Government buildings



Accelerates efforts to make Government buildings energy efficient through Government Lead By Example



Provides and disseminates information to building occupants on energy usage performance of the building compared to energy efficient building



Creates healthy competition among building owners to improve energy use



Helps the Government achieve national commitment to reduce GHG emissions intensity of GDP by 45% by 2030

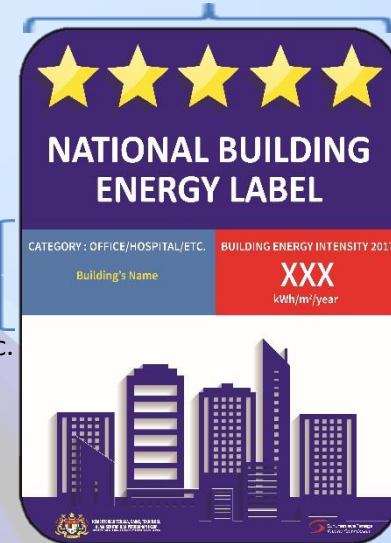
# LABEL CONCEPT

**Star range:**

1 Star: Highly inefficient

5 Star: Most efficient

**Building categories:**  
Office/  
Hospital/  
University/  
School & etc.



**Building Energy Intensity Unit:**  
kWh/m<sup>2</sup>/year

STAR	BEI Range*
5-Star	BEI ≤ 100
4- Star	100 < BEI ≤ 130
3- Star	130 < BEI ≤ 160
2- Star	160 < BEI ≤ 250
1- Star	BEI > 250

\*BEI range for office building