FACT SHEET

Singapore Standard SS 715:2025 - Energy Efficiency of Data Centre IT Equipment

1. As outlined in the Green Data Centre Roadmap, IMDA is taking active steps to advance sustainable green data centre growth. The new Singapore Standard "SS 715:2025: Energy Efficiency of Data Centre IT Equipment" is targeted at data centre operators, consultants, customers, and sustainability officers looking to optimise IT equipment procurement and operations for energy efficiency.

2. To help users achieve at least 30% energy savings, the standard guides users on:

   i) Setting the Minimum energy efficiency performance level of IT equipment in data centres

   The energy efficiency performance of IT equipment is typically based on standardised testing methodologies. The standard defines the minimum level of energy efficiency performance that IT equipment, such as server, storage and network equipment used in data centres, should meet. The minimum level is aligned to those used by international certifications like US Energy Star and EU Ecodesign. This allows data centre users to select from a variety of IT equipment that meet or exceed international energy efficiency baselines.

   ii) Best practices and guidelines for selection and operation of IT equipment in data centres

   Beyond procuring energy efficient IT equipment, it is also important to ensure that such equipment are operated efficiently. The standard hence provides best practices and guidelines on the selection, deployment and operation of IT equipment to further reap energy savings. These include:

   - Reducing the number of IT equipment in data centre by replacing older IT equipment with fewer but newer IT equipment that can perform more work (such as more transactions) with the same amount of energy consumed.

- Regular monitoring of IT equipment utilisation rates to ensure that all IT equipment are well utilised, and eliminate low-utilised or idle equipment that cause energy wastage.

iii) Support for higher temperature data centre operations

The standard sets out that IT equipment in data centres should be able to operate safely at temperatures of up to 35°C. This helps data centre operators to operate cooling systems at higher temperatures in line with the Tropical Data Centre standard (SS697:2023) that Singapore launched in 2023. Doing so potentially brings about additional benefits of 2% to 5% energy saving on the cooling systems, with every 1°C increase in the data centre operating temperature.

3. Users may tap on the IMDA Energy Efficiency Grant to support the upgrade of IT equipment to meet the energy efficiency performance defined in this standard. More information on the Energy Efficiency Grant can be found at https://www.imda.gov.sg/how-we-can-help/energy-efficiency-grant.

4. To preview and/or purchase the standard, please visit the Singapore Standards website.

[##]