

CHAPTER 5 - ENERGY DEMAND

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505.02 SMART BUILDING



INTENT

To utilise latest intelligent technology in enhancing building performance, without affecting occupant comfort and safety.

REQUIREMENT

For Platinum Sa'fa and for all new buildings, various building equipment and systems shall be provided with intelligent techniques to control and reduce the energy and water consumption of the building. The intelligent techniques shall also ensure the safety and comfort of the building occupants.

SIGNIFICANCE

With technology enhancement and upgrades the newly constructed buildings are using latest techniques to reduce the energy and water consumption. Smart building technologies can help in optimising the building performance to a better level. Smart building are the ones which integrate the various components of building operation and use it for better performance, comfort and operation through data monitoring, real time analysis and internet integration.

Dubai being one of the front-runners in adapting the smart city concept, the smart buildings promises to improve efficiency by integrating the systems to reduce operating expenses and increase the safety, productivity and quality of life.

APPLICABILITY

This regulation is applicable to all building types. Refer to Table 101.07(3) in Section One - Administration for detailed applicability levels.

IMPLEMENTATION

Buildings using smart technologies should demonstrate that through use of technologies, energy and water consumption is controlled and reduced and provides improved building operation and occupant comfort. Additionally, the smart technologies should be used to create a better and safer building for occupants. Smart building technologies function using computerised and intelligent network of electronic devices, that monitors and controls the mechanical, electrical, lighting and other systems in a building. Building's operation, performance and management can be optimised, by proper integration of smart technologies with building systems.