

# CHAPTER 5 - ENERGY DEMAND

500

## 505.01 REDUCTION OF ENERGY DEMAND



### INTENT

To encourage project team to implement innovative energy reduction strategies.

### REQUIREMENT

For Golden and Platinum Sa'fa and for all new buildings, innovative ideas and new mechanisms shall be provided that would contribute for at least 5% reduction in energy demand. These ideas or new mechanisms shall not be from the requirements listed in the regulations.

### SIGNIFICANCE

Increased energy consumption has a detrimental effect on natural resources. Countries worldwide are putting their efforts in energy efficiency measures. Prominently, technological development has been on cleaner, more efficient methods of generating electricity. However, the paradigm shift now is on technological advancements to reduce energy demand, itself.

The Dubai Supreme Council of Energy as part of the Dubai Integrated Energy Strategy (DIES) 2030, has developed Demand Side Management (DSM) strategy for the Emirate of Dubai. DSM strategy targets 30% reduction in energy consumption by 2030, putting Dubai at the forefront of global energy efficiency efforts.

Optimising energy demand in buildings not only contributes to this DSM strategy, but also reaps the following benefits:

- Moderates the need for bigger equipment sizing, thereby reducing costs.
- Improves operating efficiencies.
- Reduces carbon emissions and environmental degradation.
- Use of innovative and efficient technologies provides wider visual reach.
- Helps make Dubai one of the most sustainable cities in the world.

### APPLICABILITY

This regulation is applicable to all building types. Refer to Table 101.07(2) in Section One - Administration for detailed applicability levels.