

Commercial HVAC with ice thermal storage



**Client: Techno-Mart 21
Multi-Use Commercial
Building, Seoul, Korea**

Project Description:

Slurry ice thermal energy storage system installed to provide 100% of air conditioning for new 39-story office tower, merchandise mart, theatre, and restaurants.

Project Scope:

- ▲ 10,313 RT peak air conditioning load
- ▲ 87,500 RT-HR 24-hour HVAC load
- ▲ 2.8 million sq. ft. (260,260 m²) building
- ▲ Daily cycle load shift strategy

Project Financial Summary:

- ▲ Total TES system cost **\$5,300,000**
- ▲ Utility cost savings/year **\$524,000**
- ▲ Simple payback on incremental cost over conventional chiller plant
1.1 Years



APPLYING INTELLIGENT ENERGY