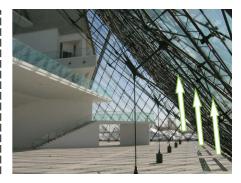
An Outline of The Green Power Air- Conditioning System of the Glass Pyramid in MOERENUMA Park, Sapporo

[Design concept: Harmony with the Environment]



Building Outline •Completion date: March in 2003 •Number of floors: 4floors •Total Floor area: 5,322m² •Principal Use: art gallery, restaurant, office •Snow Storage: Area: 635m²; Height: 5.3m



The Green Power Technologies based on Sapporo's climate and Energy Efficiency Technologies

Snow, Atmosphere, Solar energy

- Actual stored Snow for Cooling (Stored Snow from winter to summer ,when its cold is utilized)
- •Hybrid Ventilation Cooling (Natural Ventilation & Mechanical Ventilation)
- ·Floor Cooling (via cooling tower-based free cooling)
- ·Solar energy (upper atrium heat recovered and accumulated to the stone floor during winter)

Snow: for Cooling

•As a result of its operations from July to August in 2004.

•Approximately 1735t of snow was stored and 1427t of snow for cooling was consumed (478GJ), which is equivalent to a 368kW chiller running at full load for 360hours.

•The emissions avoided are estimated to be approximately 30,000kg/ CO2

