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# TAIPEI 101 – a truly extraordinary building

TAIPEI 101 has received LEED Platinum Certification, the world's most important certification for green buildings.

TAIPEI 101 is the world's first building of its size to be awarded with LEED Platinum Certification (Leadership in Energy and Environmental Design). This certification is awarded to buildings which meet all requirements for energy efficiency and environmental compatibility.

## The building

The Taipei Financial Center, or TAIPEI 101 as it is commonly called, has 101 floors. With a height of 508 m, it is one of the tallest buildings in the world. The building is located in the heart of Taipei, the trade center of Taiwan. This multi-purpose complex houses a wide variety of shops, restaurants, and modern offices. Its architecture reflects the spirit of the times, cultural influences, and cutting-edge technologies, making TAIPEI 101 one of the most prestigious buildings of our times. As a result, TAIPEI 101 has been certified as a LEED Platinum green building, platinum being the highest level in the LEED rating system.

## The challenge

The customer wanted a solution that meets current green building standards and reduces operating costs. As an extraordinarily tall building, TAIPEI 101 also requires effective climate and lighting control, reliable security measures, and efficient control of visitor flows. In addition, its geological situation is a factor that cannot be underestimated. The area is known for strong earthquakes and typhoons, requiring special attention to architecture and building technology.

**Answers for infrastructure.**



### The solution

Requirements may vary from building to building. Thanks to many years of experience and comprehensive integration know-how, Siemens is able to fully meet these requirements and integrate systems with different disciplines. The resulting intelligent Total Building Solutions ensure smooth workflows and increase safety and security, energy efficiency, and flexibility while maximizing comfort. The integration and interoperability of all its disciplines has allowed TAIPEI 101 to achieve “green building” status and reduce its energy costs.

Siemens has equipped TAIPEI 101 with a comprehensive building automation and energy management system as well as an HVAC installation for a unique water distribution system. Other components include a sophisticated air volume system, an advanced lighting concept, and state-of-the-art security systems.

The Energy Monitoring & Controlling System (EMCS) from Siemens makes it easy to control the HVAC systems in the entire complex, thus optimizing energy consumption. Optimized building automation and energy efficiency increases have helped achieve an additional reduction in power consumption and water use. The air quality inside the building sets new standards and fully meets LEED requirements.

As LEED consultant and supplier of building technology with integrated disciplines such as building automation, fire safety, security, lighting, and low-voltage power distribution, Siemens played a vital role in the certification process. During the entire process, Siemens supported the operator of TAIPEI 101 with its expertise in all aspects of green buildings. The consulting services provided by Siemens, the subsequent implementation of the required strategies, and the installation of additional components helped TAIPEI 101 garner the LEED category.

### Highlights

- Green building standard with LEED Certification
- Cost-effective and environmentally sensitive cost management thanks to Total Building Solution
- Lower costs for future modifications
- Reliable support and service from Siemens