

<http://www.siemens.com.tw/buildingtechnologies/>

## TAIPEI 101 LEED Certification

LEED Consulting Services, Energy Audit Level I & II

101 stories above ground and 5 stories below, TAIPEI 101 is strategically located at the heart of Taipei, the center of commerce in Taiwan. In July 2011, TAIPEI 101 received Platinum level certification under the LEED for Existing Buildings: Operations and Maintenance\* rating system, making it not only a world-class commercial landmark, but also the world's tallest Green Building.

### The Action Plan

As one of TAIPEI 101's primary LEED consultants, Siemens I BT draws from its reputable expertise in building operations in analyzing, recommending and implementing critical green solutions that have helped TAIPEI 101 attain LEED. Our longstanding role as TAIPEI 101's building automation, lighting, security and HVAC systems supplier has allowed us to help TAIPEI 101 meet and exceed the guidelines laid out in LEED's two largest credit categories: "Energy & Atmosphere" and "Indoor Environmental Quality."

### The Result

By achieving LEED Platinum certification, TAIPEI 101 automatically becomes 30% more efficient than the average building. We take pride in TAIPEI 101's LEED achievement, not only because we have successfully helped our customer reach their goal, but also because we have been integrally involved in a project that reflects the corporate responsibility that we at Siemens fundamentally believe will lead the world towards a sustainable and greener future.



### Customer Requirements

- Become a globally recognized Green Building through LEED certification
- Identify areas for reducing energy costs
- Enhance building performance through building optimization

### Reasons for Success

- Key supplier for TAIPEI 101's building automation system, security system and continued service agreement
- Strategic collaboration with TAIPEI 101's other LEED consultants
- Siemens' reputation as a Green Infrastructure Giant and solutions-oriented service provider
- Long-term partnership with TAIPEI 101

### Siemens Value Added

Through Siemens Building Technologies' expertise in building optimization, green building certification and indoor air quality management and control, TAIPEI 101 was able to achieve:

- Global recognition as the "World's Tallest Green Building" by successfully attaining LEED Platinum certification
- Approximately 700,000 USD in annual energy cost savings
- 10% annual reduction from each of the following areas:
  - Electricity consumption (4.8 million kwh saved)
  - Water use (28,000 metric tons of water saved)
  - Garbage production (1261 metric tons of garbage saved)
- Highest level of indoor air quality throughout TAIPEI 101 premises for occupants

### Solution

Siemens is TAIPEI 101's major contributor for the "Energy and Atmosphere" and "Indoor Environment Quality" credit categories in LEED-EBOM. We provide the consultancy, strategy implementation and engineering capabilities necessary to achieve energy saving as well as indoor air quality improvement.

#### Solution/Service:

- LEED Prerequisite Items:
  - EAp2 (Energy and Atmosphere prerequisite)
  - IEQp1 (Indoor Environmental Quality prerequisite)
- LEED Credit Items
  - EAc2.1 Level II Energy Audit
  - EAc2.2 Audit Implementation
  - EAc2.3 On-going Commissioning
  - IEQc2.3 Thermal Comfort Monitoring