



# Smart Choice

**Existing Buildings** : Optimize management and efficiency for energy savings and carbon reduction.

**New Buildings** : Provide design, planning, and construction for sustainable energy efficiency.

## Display and Control of HVAC System Operation

- Digital twin controls HVAC equipment performance
- 3D visualization of temperature distribution on each floor for management
- Digital twin simulates equipment for operation and energy consumption

## Upgrade Lighting with Smart Controls

- Control lighting circuits remotely by zone
- Utilize circuit switching for energy saving and carbon reduction

## Water Usage Disclosure

- Visualizing water tank information
- Alarm notification for water level limitation

## Energy Management

- Uploading the data of electricity and water usage
- Real-time monitoring energy consumption on site
- Analysis of water and electricity usage for energy saving
- Visualization of equipment energy consumption

## Upgrade Emergency Security System Interface

- 3D user interface
- Analysis and statistics events

## Surveillance System Integration

- Customization of array screen layout
- Sync with diverse systems

## Analyzing of Elevator Operation

- Integrating elevator operation data
- Analyzing elevator pedestrian flow
- Analysis and statistics carrying frequency

## Maximizing Energy Benefits in IoT-Enabled Smart Buildings

## Awards & Certification



2023 3<sup>rd</sup> APIGBA Awards Excellent IGB System Award and Renovation Award-**Platinum Award**



Taiwan Architecture Center  
Taiwan Smart Building  
**Excellent System Integrator**



Smart Building Materials Mark Certification  
Device & System



2019 Taiwan Excellent Smart Green Building and System Product Award  
**System Product Category - Platinum Award**

## Proven Cases

- > Chiayi County Machouhou Industrial Park of Development Plan
- > Nangan Depot Public Housing
- > New Taipei City Government Administration Building Monitoring and Energy Control System Integration
- > Taipei Municipal Building Central control protection system integration
- > New Taipei City Government Second Administration Center
- > Taichung City Government Construction of Smart Energy Management Center



Seamless Integration of Existing Software and Hardware



Intelligent Linkage Alarm System



Real-Time Monitoring and Management



Equipment Performance Optimization



AI & Digital Twins for 10% Annual Energy and Carbon Savings.



Meets Global Carbon Management Standards  
ASHRAE 90.1 & CNS 14064-1.



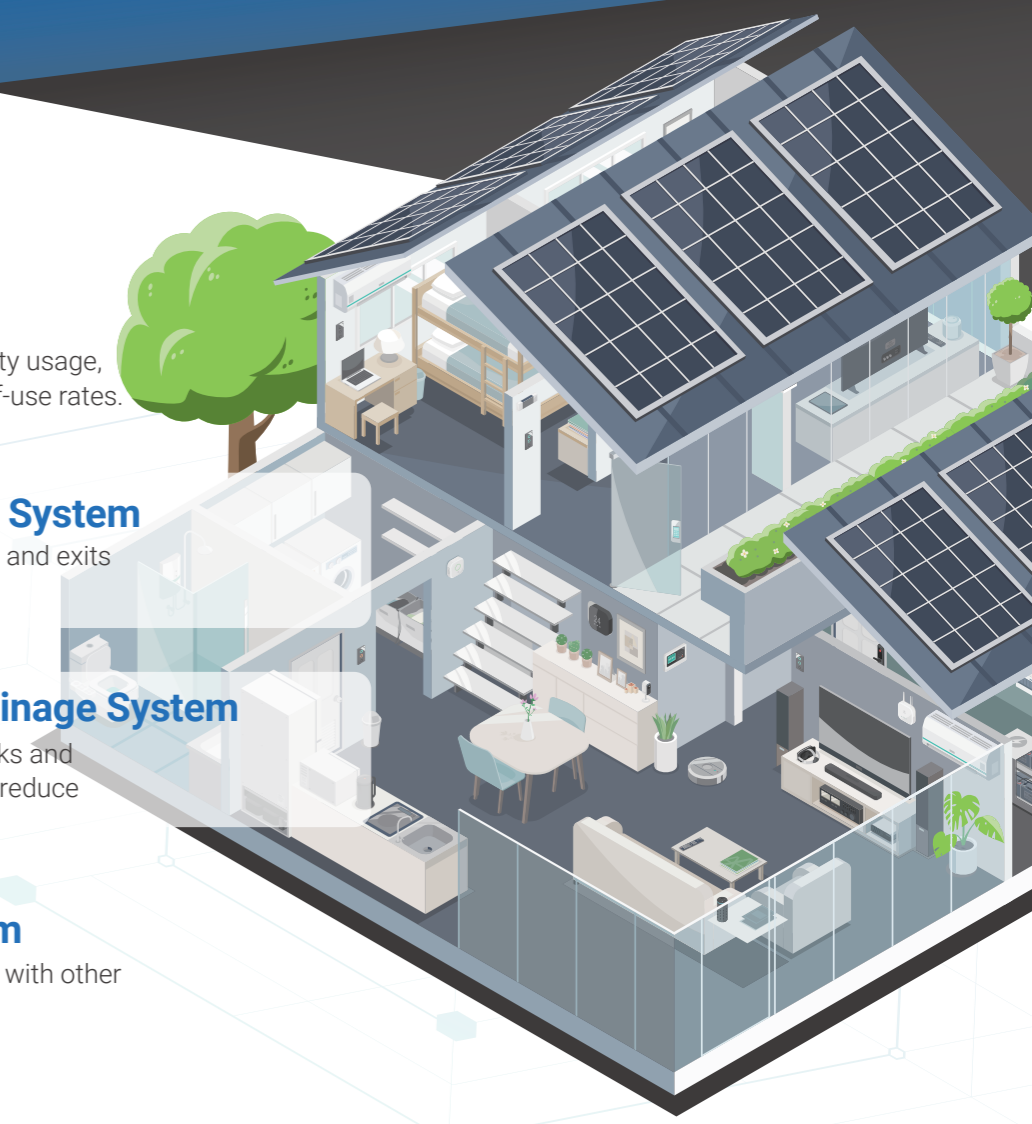


# Seamless integrated services for 12 subsystems

- HVAC System**  
Integrates and controls HVAC for comfort, energy-efficiency, and carbon savings.
- Elevator System**  
Predicts real-time traffic flow to reduce peak load
- Energy Efficiency System**  
Analyzes energy consumption to allocate energy more efficiently
- Lighting System**  
Automatically adjusts circuits based on environment and energy-saving needs

- Surveillance System**  
Custom surveillance video wall layout synced with diverse systems for emergency event monitoring.
- Access Control System**  
Records entry and exit activity and integrates with surveillance systems for enhanced security
- SmartSOS Emergency Security System**  
The comprehensive recording of alarm trigger time, locations, and status
- Ventilation System**  
Equipment can be activated or deactivated based on events detected by fire, HVAC, and air quality sensors.

- Power System**  
Provides information on electricity usage, consumption trends, and time-of-use rates.
- Parking Management System**  
Automatic passage at entrances and exits gates and parking guidance.
- Water Supply and Drainage System**  
Monitors the status of water tanks and pumps to avoid peak usage and reduce energy consumption
- Fire Protection System**  
Interconnects fire-related events with other subsystems



## System Structure | Smart Choice Platform

### Information Integration

- #### User Interface
- User Management
  - 3D & Dashboard Interface
  - Reporting and Prediction

- Data Mining Service
- MQTT Broker
- Interaction
- MQTT Client Agent
- Notification

### Device Control

