



รายงานการประหยัดพลังงาน

INTRODUCTION

Empower your way



การแก้ปัญหาลงงาน

Energy solutions provider

Our highly energy-saving, cost-efficient energy solutions can help you cost down energy cost.



การเชื่อมโยงเทคโนโลยี

IoT technology integration

IoT platform allows user to monitor energy usage and control scheduling to achieve highest standard of energy efficiency.



การจัดการระบบพลังงาน

Energy management system

Just Light provides a energy-smart energy management system for building owners and property managers.

6 วิธีการประหยัดพลังงาน

PRIMARY ENERGY SOLUTIONS

ENERGY SAVING SOLUTIONS

Providing the Most Cost-efficient Energy Solutions



การจัดการ
ENERGY MANAGEMENT
SYSTEM



หลอดไฟอัจฉริยะ
LED SMART
LIGHTING



เพาเวอร์แอร์
HVAC
POWER



ฟิล์มหน้าต่าง
WINDOW
FILM



จัดเก็บพลังงาน
ENERGY STORAGE
SYSTEM



โซลาร์เซลล์
PV SYSTEM



Integrating with IoT Platform to achieve better energy management

แผนผังระบบพลังงานด้าน IoT ของ CHT

CHT Energy IoT FLOWCHART



ตลาดในกลุ่มเป้าหมาย

TARGETED MARKETS



Commercial buildings
ตึกพาณิชย์



Industrial buildings
นิคม
อุตสาหกรรม



Government
สำนักงาน
ราชการ



Educational Institutions
สถาบันการศึกษา



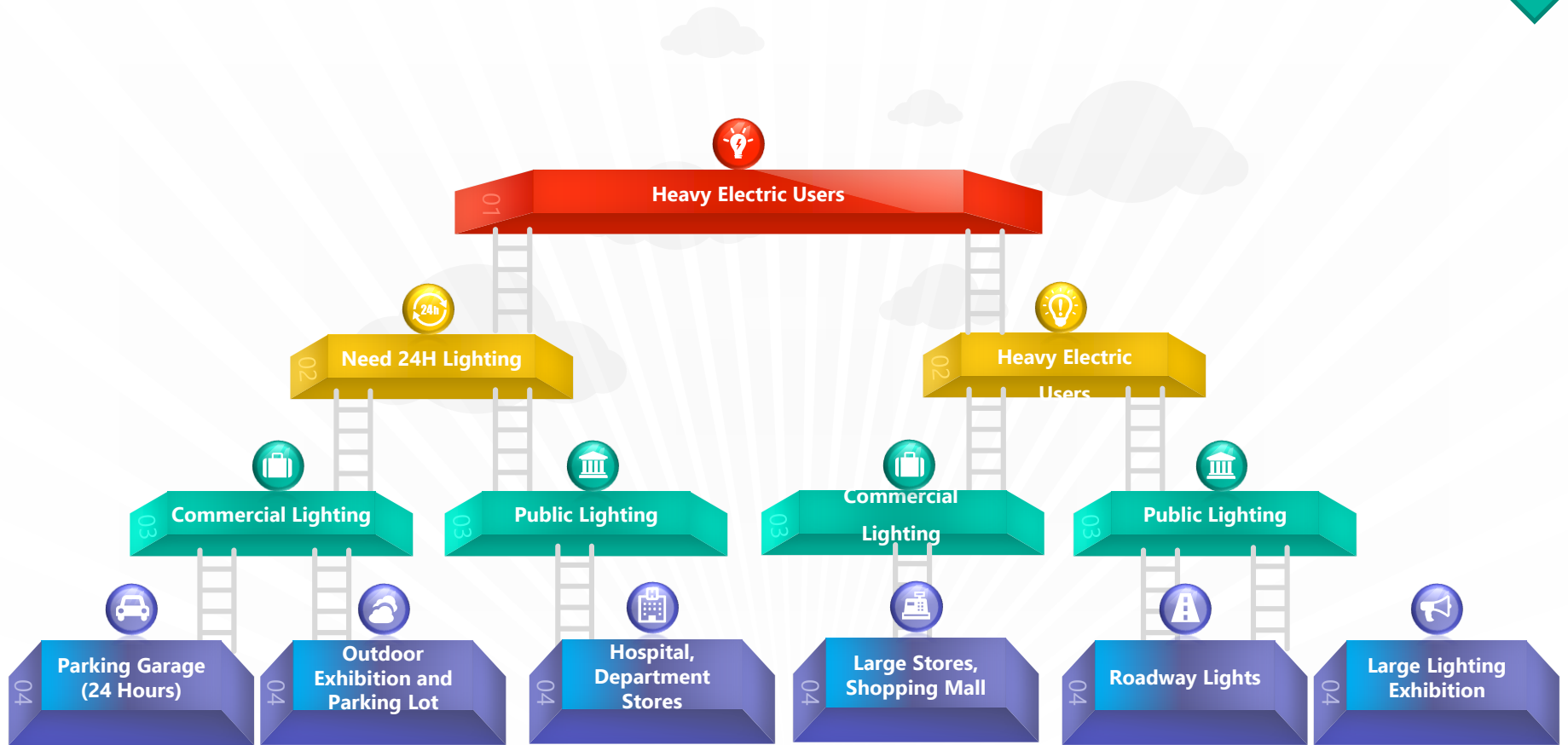
Parking
ที่จอดรถ



Hospitality Industry
อุตสาหกรรมบริการ



Sports & Entertainment
กีฬาและความบันเทิง





กรณีศึกษา

CASE STUDY

REFERENCE



No. **1** Hilton San Gabriel,
Los Angeles



No. **5** Golden Pacific Center,
San Jose



No. **2** Maxim Supermarket, San
Jose



No. **6** Fremont Tech Center,
Fremont



No. **3** Wellex Corporation,
Fremont



No. **7** Photo USA Corp,
Fremont

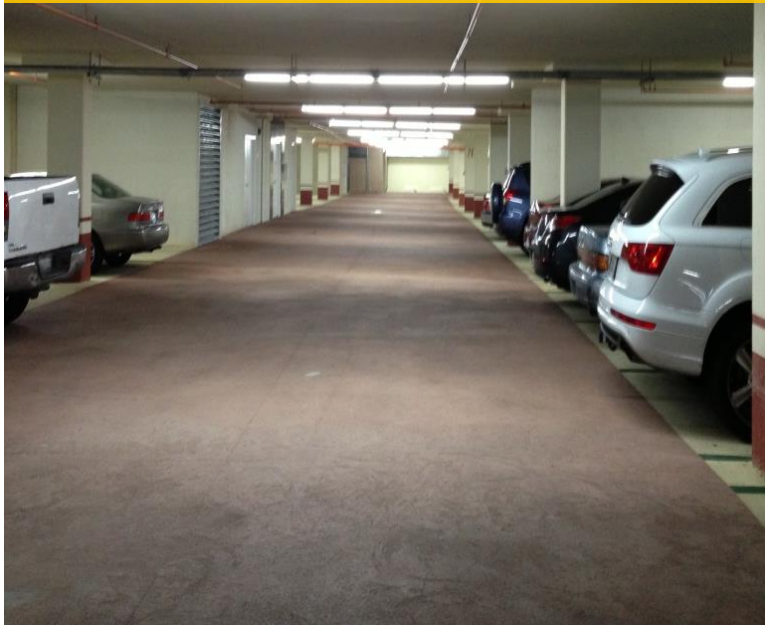


No. **4** Sunny Plaza,
San Gabriel



No. **8** GSI Technology,
Sunnyvale

ESPC Example HILTON SAN GABRIEL



Commercial / Indoor Parking Lot

LED lights integration, Motion Sensors

146k 

SQUARE FOOTAGE



288,000 kWh

ESTIMATED ANNUAL EXISTING



73,000 kWh

ESTIMATED ANNUAL PROPOSED

75% 

ENERGY SAVING EFFICIENCY

\$30.6K 

ANNUAL SAVINGS

Industrial / Manufacturing

LED Lights Integration, Motion Sensor

100k

SQUARE FOOTAGE



386,916 kWh

ESTIMATED ANNUAL EXISTING



131,724 kWh

ESTIMATED ANNUAL PROPOSED

66%



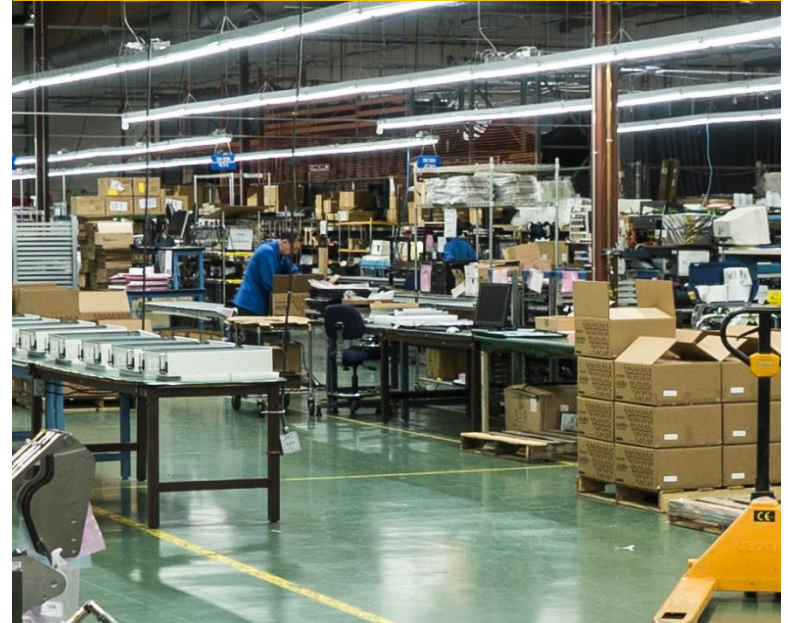
ENERGY SAVING EFFICIENCY

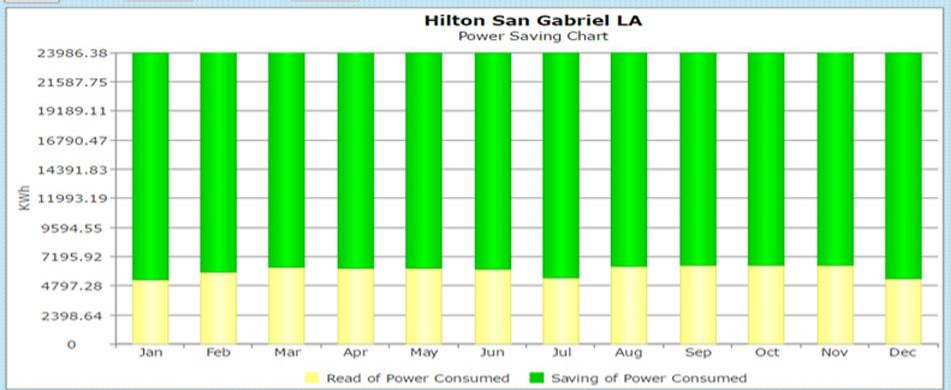
\$32.1k



ANNUAL SAVINGS

ESPC Example WELLEX CORPORATION





Energy Consumed of Original: 22077.5 | Energy Consumed not belong to Original: 1908.88
 Saving of Power Consumed = Energy Consumed of Original - (Read of Power Consumed - Energy Consumed not Original)

Energy Efficiency = Saving of Power Consumed / Energy Consumed of Original [Export to Excel](#)

| Monthly | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|------------------|---------|----------|----------|----------|----------|----------|---------|----------|----------|
| Read of Powe... | 5311.88 | 5913.82 | 6311.57 | 6238.01 | 6252 | 6169.82 | 5478.28 | 6440.34 | 6488.47 |
| Saving of Pow... | 18674.5 | 18072.56 | 17674.81 | 17748.37 | 17734.38 | 17816.56 | 18508.1 | 17546.04 | 17497.91 |
| The AVG of E... | 84.59% | 81.86% | 80.06% | 80.39% | 80.33% | 80.7% | 83.83% | 79.47% | 79.26% |
| -CO2(Kg) | 9729.41 | 9415.8 | 9208.58 | 9246.9 | 9239.61 | 9282.43 | 9642.72 | 9141.49 | 9116.41 |

ENERGY SAVING RECOGNIZED ON CLOUD



Take advantage of our IoT platform to integrate our solutions, achieving a total Energy Management System (EMS) for any buildings.

Wellex Power Saving

Year : 2016 Total replacement count : 0

[Export to Excel](#)

| Month | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|------------------|---------|----------|------------|------------|------------|------------|------------|
| Saving of Po... | 1385.03 | 19457.2 | 18530.38 | 18793.77 | 20596.43 | 18069.1 | 2278.04 |
| The AVG of E... | 36.24% | 78.84% | 74.64% | 75.29% | 82.9% | 72.88% | 76.31% |
| -CO2(Kg) | 5034.07 | 10312.32 | 9821.1 | 9960.7 | 10916.11 | 9576.62 | 1207.36 |
| Saving Costs | 2277 | 3891 | 3706 | 3759 | 4119 | 3614 | 456 |
| Total of Savi... | 4793.43 | 84250.63 | 102781.... | 121574.... | 142171.... | 160240.... | 162518.... |
| Total of -CO2... | 4340.52 | 44652.83 | 54473.94 | 64434.63 | 75350.74 | 84927.36 | 86134.73 |



OVER 50%



ENERGY SAVING EFFICIENCY

SOLAR PANEL INSTALLATION



**Meritronics
Milpitas**



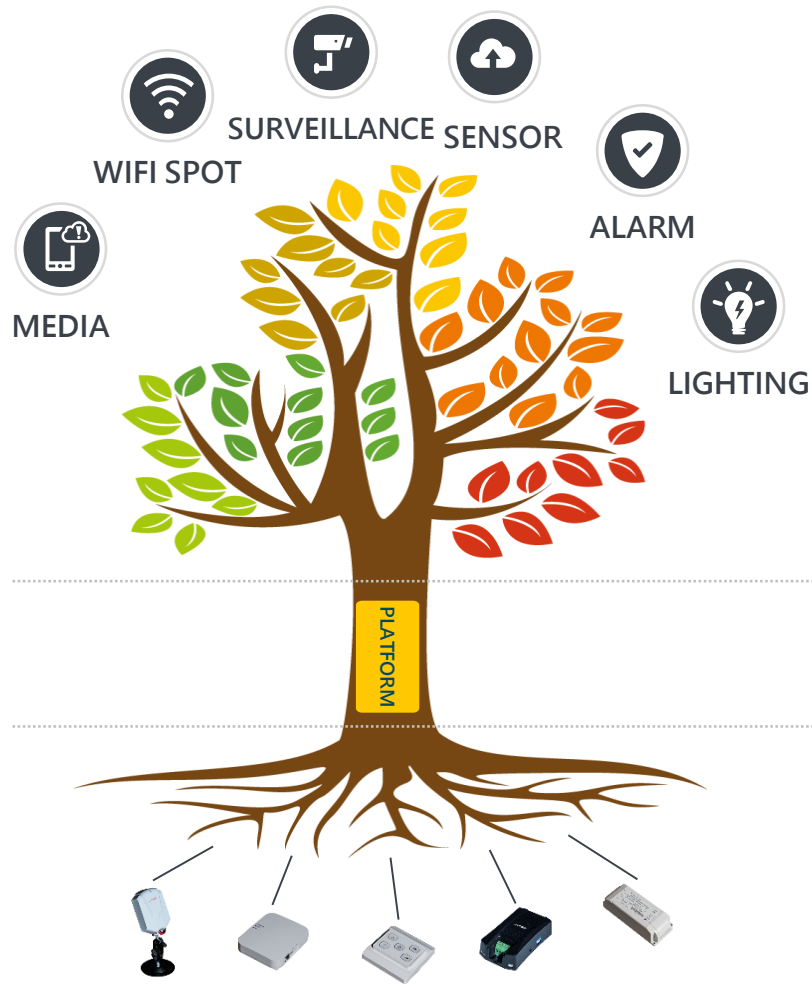
**St James Place
San Jose**



**Pucci Food
Hayward**



ENERGY IOT
MANAGEMENT/
BIG DATA PLATFORM



1. DATA CLOUD BASE

FRONT-UI · GATEWAY · END-DEVICES



FRONT-UI

APP-UI · BACKEND



GATEWAY

SECURITY · UP-LOAD KEY



END DEVICES MULTI SENSOR · APPLICATION

2. System Design



Application

SMART LIGHTING · SURVEILLANCE · SENSOR · ALARM · WIFI
SPOT · MEDIA



DATA BASE MANAGEMENT

DATA MANAGEMENT · DATA STORAGE · DATA REASCH ·
DATA MAP · DATA ANALYSIS



DATA CLOUD MANAGEMENT

SERVER MAINTENANCE · DATA BASE MANAGEMENT



END- DEVICES

SENSORS · SURVEILLANCE · WIFI · STATE CONTROL