

## OVERVIEW

**Green and Smart City's Integrator**  
**Smart Factory and Smart Manufacturing's Integrator**

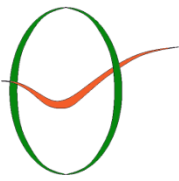
**Intelligence Makes the Dream Come True**

**Let's be more SMART, GREEN and HEALTH...**



Powered by GE





# COMPANY PROFILE

**YATRON** was established in 2006 with the technical support of **General Electric - GE** of the United States. It is a comprehensive holding group.

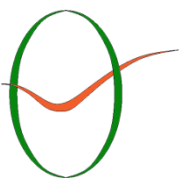
Its subsidiary "[\*\*YATRON Smart City and Energy Group\*\*](#)" is the world's leading Green and Smart City diversity organization. Its businesses include: **Green and Smart City Solutions, Smart factories and Smart manufacturing, Smart energy management, Smart agriculture, Smart buildings, Smart healthcare, Smart transportation, Smart education, Smart sports, new semiconductor materials, etc.** We are present in fields such as industrial manufacturing, energy, semiconductors, commerce, data centers, water treatment, transportation, sports facilities, medical systems, fishery and agriculture, education and culture, event planning and exhibitions, etc. YATRON utilizes its own core technologies and products and integrates various system resources.

We provide customers with comprehensive end products and service solutions to ensure the reliability and protection of production, power and energy infrastructure. And continue to implement Chinese and German TÜV SÜD ISO9001, ISO14001, ISO50001 and ERP systems.

Corporate social responsibility (CSR) and ESG are YATRON's long-term concepts for sustainable development.

\*\*\*

- Corporate Social Responsibility (CSR)
- ESG "Environment" (Environment), "Social Responsibility" (Social), "Corporate Governance" (Governance)



# SCOPE OF BUSINESS

## ■ Smart Systems

- ☐ Green and Smart City
- ☐ Smart Factory and Smart manufacturing
- ☐ Smart Big Data and AI
- ☐ Smart 3D Printing System
- ☐ Smart Energy Management System
- ☐ Smart Power System
- ☐ Smart Agriculture and Fisheries
- ☐ Smart Education
- ☐ Smart Sports
- ☐ Smart consultancy

## ■ Manufacturing and System Integration

- ☐ Smart Low-voltage switchgears and controlgear equipment
- ☐ Smart LV and MV Components
- ☐ Smart Lighting
- ☐ Smart Energy Management System
- ☐ Smart Power Quality
- ☐ Cable and Wire
- ☐ Custom made system, hardware and software

## ■ Energy

- ☐ Energy Consulting Service
- ☐ Energy Management System (EnMS)
- ☐ Renewable Energy
- ☐ Wind and Solar Energy System
- ☐ Electric Vehicle and Charger System
- ☐ Energy Storage System (ESS)
- ☐ Industrial and Building automation integration (BAS, SCADA, PLC)

## ■ Solutions

- ☐ Data Center
- ☐ Smart UPS and solutions
- ☐ Smart Lighting Solutions
- ☐ Electrical and Mechanical equipment
- ☐ Construction Material

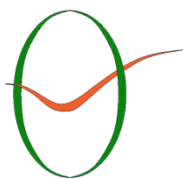
## ■ Construction and MEP Engineering

- ☐ EPC
- ☐ Turn-key

## ■ Facility Management

## ■ Investment and Management

- ☐ Contract energy management
- ☐ PPP, BOT, BT
- ☐ Mega Complex building and Infrastructure
  - ☐ Mega Shopping Mall
  - ☐ Resort, Hotel, Service apartment
  - ☐ Commercial building
  - ☐ High-end residential building
  - ☐ Industrial plant, Intelligence Warehouse
  - ☐ Power plant
  - ☐ Power substation and Water plant
  - ☐ Highway, Railway, Airport and Port
- ☐ Renewable Energy | Wind and Solar Energy
- ☐ Industry, infrastructure, Energy Investment Consulting Service



# HISTORY

## YEAR/MONTH

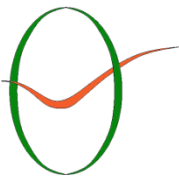
## CASE

2022/07/01	Establish YATRON Pacific Rim Center in Hainan, China
2021/07/01	Establish YATRON Technology Center in Guangzhou, China
2019/10/01	Establish YATRON Europe
2018/11/02	Reorganized into YATRON Group in UK
2018/09/20	TÜV SÜD/ISO 14001 Environmental Management
2018/08/20	Establish YATRON Thailand
2017/10/04	TÜV SÜD/ISO 50001 Energy Management
2015/11/02	Establish YATRON International in Taiwan
2015/07/20	Establish YATRON International in Macau
2014/08/20	Establish YATRON Malaysia(Group HQ of ASEAN)
2014/07/20	Establish YATRON Taiwan and Indonesia
2013/07/20	Establish YATRON Hong Kong
2012/09/11	YATRON Group ERP Online
2010/09/29	TÜV SÜD/ISO 9001
2010/05/01	Authorized LV Equipment Manufacturer by <u>GE Energy</u>
2010/03/01	Establish YATRON Factory in Zhuhai, China
2009/04/08	<b>YATRON obtains the qualification of authorized partner of General Electric - GE Consumer and Industrial</b> in United States, started deep cooperating with the world's largest conglomerate – an global leader in energy and automation industry
2008/09/01	Establish YATRON Zhuhai, China
2006/07/20	Establish YATRON Macau
2006/07/20	Establish YATRON R&D and Manufacturing Center in Taiwan
	<b>[Technical support by General Electric - GE of the United States]</b>

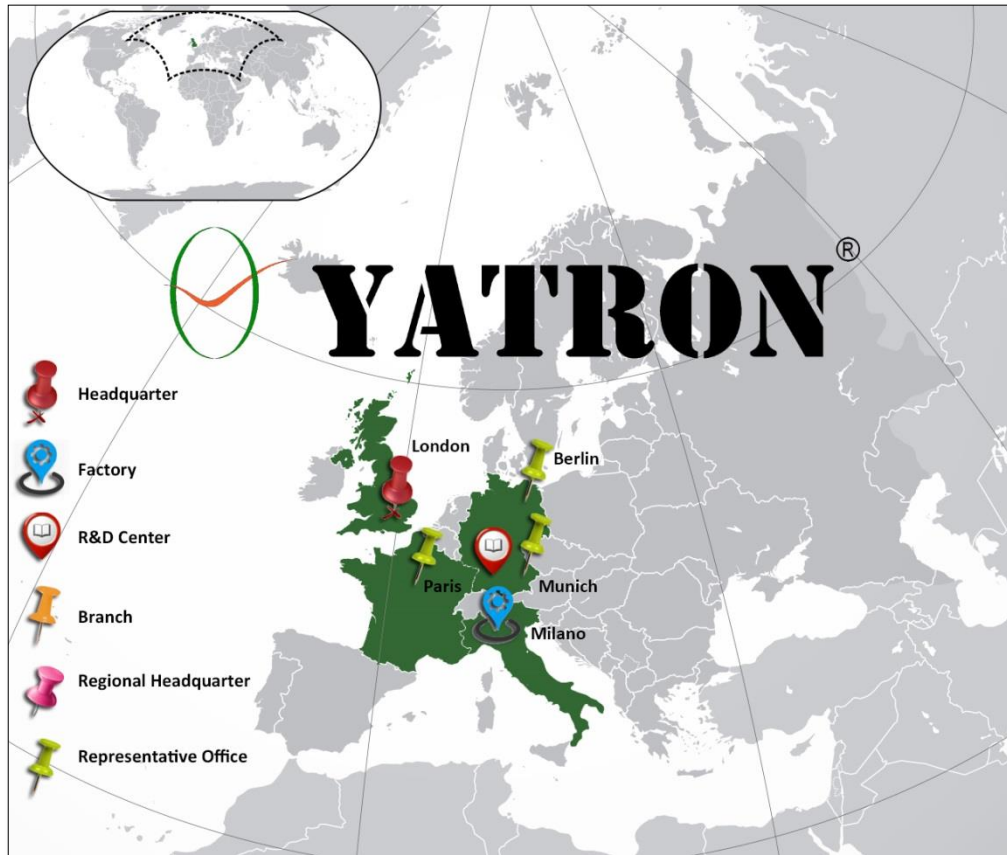


Powered by GE

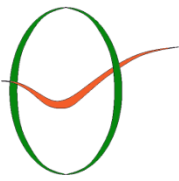




# GLOBAL FOOTPRINT - EUROPE



- **GROUP HQ:** London, UK
- **R&D CENTER:** Germany | Munich
- **MANUFACTURING CENTER:**
  - Germany | Munich
  - Italy | Milano
- **BRANCH / REP. / EXP. CENTER**
  - UK | London
  - Germany | Berlin, Munich
  - France | Paris



# GLOBAL FOOTPRINT - ASIA



■ **ASIA HQ:** Macau S.A.R

■ **OPERATION CENTER**

□ China | Guangdong | Zhuhai

■ **R&D CENTER:** Taiwan | New Taipei

■ **TECH. CENTER:** China | Guangzhou

■ **FINANCE CENTER:** Hong Kong S.A.R

■ **PACIFIC RIM CENTER**

□ China | Hainan | Qiongzong

■ **MANUFACTURING CENTER:**

■ China | Guangdong | Zhuhai, Jiangman

■ Taiwan | New Taipei city

■ **BRANCH / REP. / EXP. CENTER**

□ Hong Kong SAR, Macau SAR

□ Taiwan | Taipei, Kaohsiung, Taichung

□ China | Guangdong | Zhuhai, Guangzhou

□ China | Hainan | Haikou, Qiongzong

□ Singapore (HQ of ASEAN)

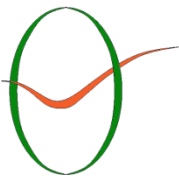
□ Malaysia | Kuala Lumpur

□ Thailand | Bangkok

□ Indonesia | Jakarta

□ Philippines | Manila

□ Vietnam | Ho Chin Minh

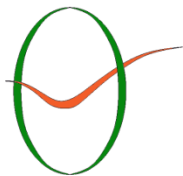


# GLOBAL FOOTPRINT - AFRICA

- **BRANCH / REP. / EXP. CENTER**
  - ▣ South Africa | Johannesburg
  - ▣ South Africa | Newcastle



**YATRON®**

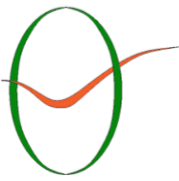


# CERTIFICATES

Complies with	Certificates
ISO 9001, ISO 14001	TÜV SÜD (Germany)
ISO 50001	TÜV SÜD (Germany)
IEC 62208	TÜV SÜD (Germany)
IEC 60439, IEC 61439	KEMA, ASEFA, CEBEC, ASTA, TUV
GB 7251	CCC (China)
IEC 60331	TICW
BS 6387	TICW
UL94	SGS







# TOTAL SOLUTIONS



 **KenerMUS**



 **KenerPV**

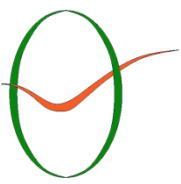


 **KenerPower**

 **KenerCITY**



 **KenerSys**



# CORE BUSINESS

## Manufacture and Solutions



**KenerCITY**

■ Smart City



**KenerSys**

■ Smart Factory and Manufacturing

□ Smart Production Line

□ Smart Robot, AGV, ARM, UAV(UAS)

□ Smart Conveyer

□ Smart 3D Printing

□ Smart Energy Management

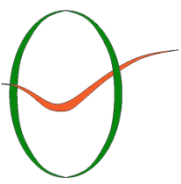
□ Smart Building

□ Smart Fisheries and agriculture



**KenerMUS**

■ Smart Museum



# CORE BUSINESS

## Manufacture and Solutions



**KenerPower** ■

### Smart Industrial Solutions

- Switchgears and Controlgears
- Busway (Busbar Trunking)
- LV and MV Components
- Power Quality and UPS
- EV Charging System
- Cable and Wire
- Lighting Solutions

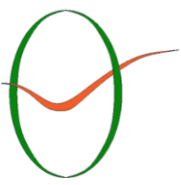
 **KenerPV**

### ■ Smart Renewable Energy (Solar Photovoltaics)

- PV panel
- Inverter
- Energy Storage Solution

 **KenerAIR**

### ■ Smart Pneumatic system



# SMART CITY - SUSTAINABLE

## Smart City

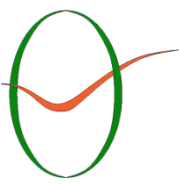
AUTOMATION | IOT | BIG DATA | MACHINE LEARNING | AI



Smart City need Smart Energy and IoT  
Let's be SMART ...







SMART CITY - SUSTAINABLE

KenerCITY

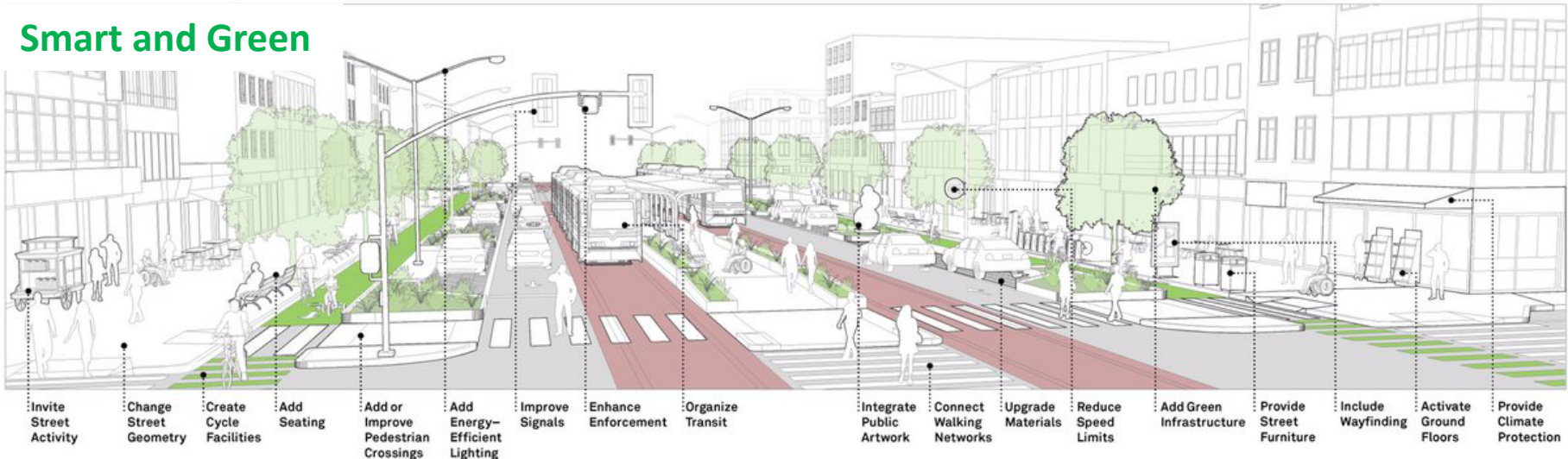
# Smart City

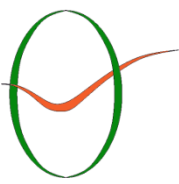
AUTOMATION | IOT | BIG DATA | MACHINE LEARNING | AI

## Existing



## Smart and Green



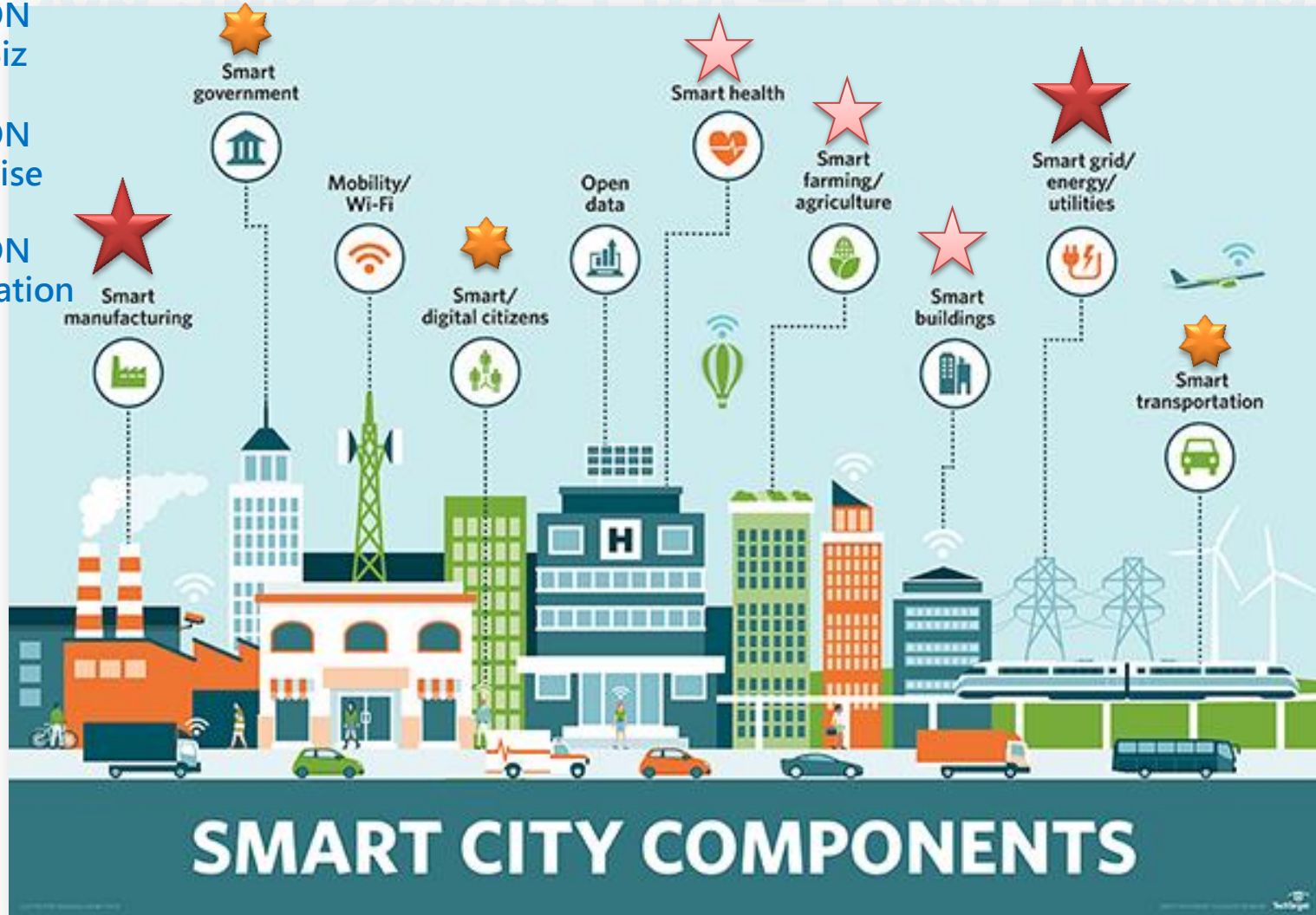


SMART CITY - SUSTAINABLE

KenerCITY

# Green and Smart City – Core Elements

- ★ YATRON Core Biz
- ★ YATRON Expertise
- ★ YATRON Integration

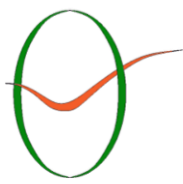




# SMART CITY



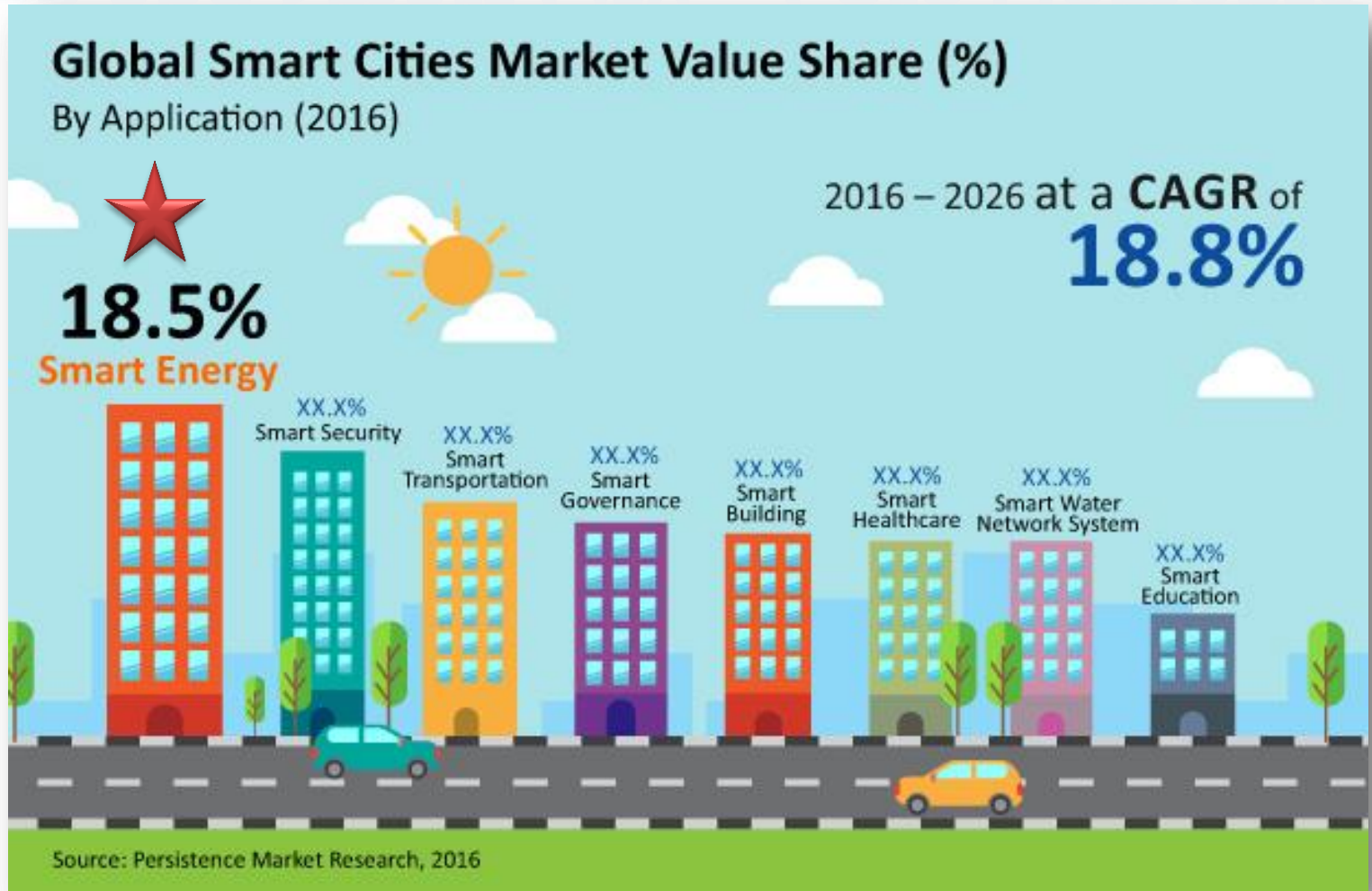




SMART CITY - SUSTAINABLE

KenerCITY

# Green and Smart City – Core Elements



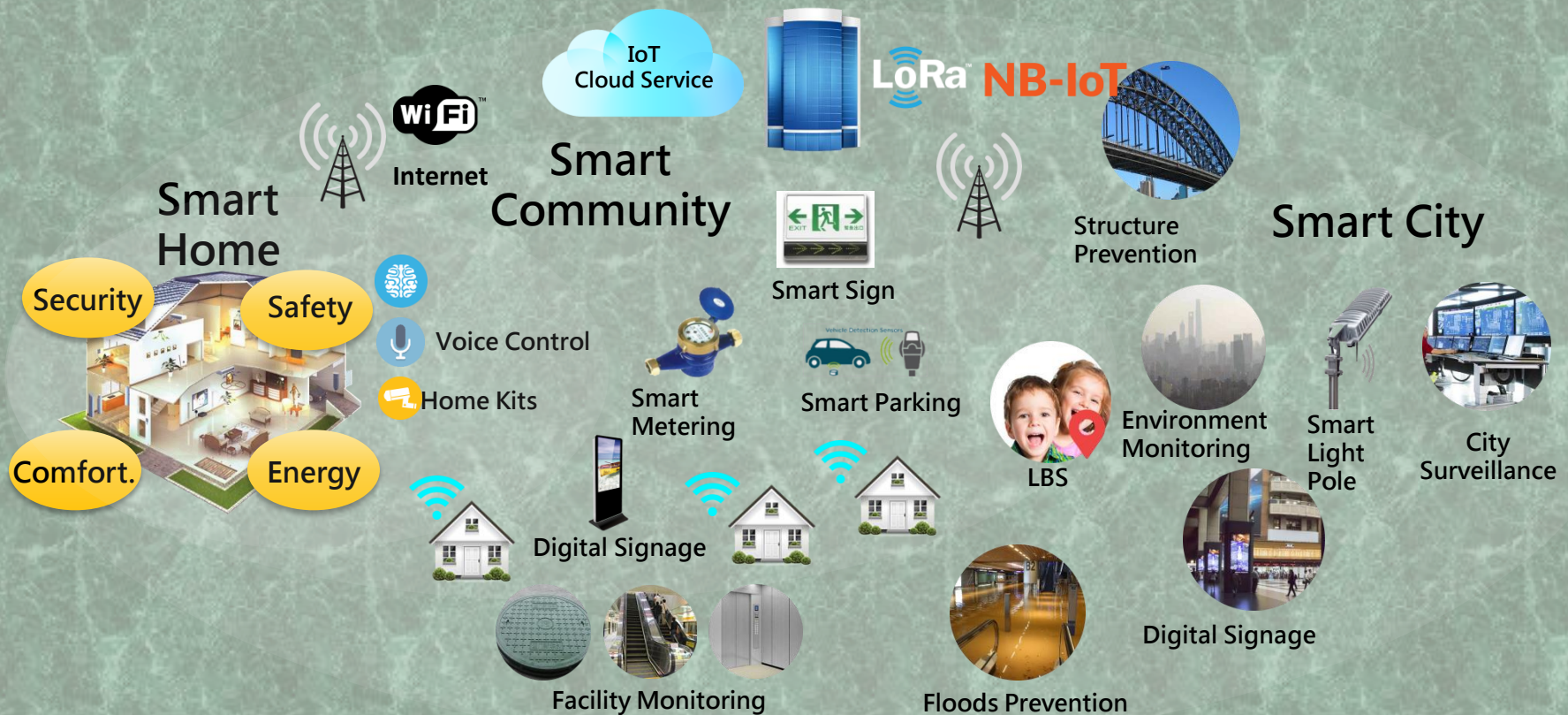
- ★ YATRON Core Biz
- ★ YATRON Expertise
- ★ YATRON Integration

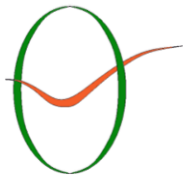




# Smart City

IOT | BIG DATA | MACHINE LEARNING | AI

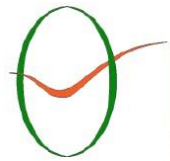




# ENERGY MANAGEMENT SYSTEM

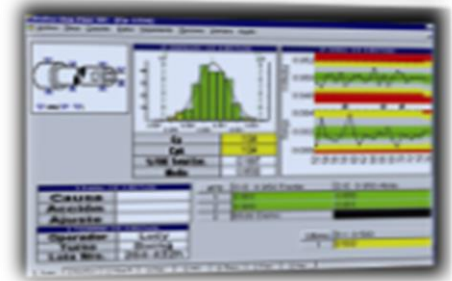
## Smart Energy Management System

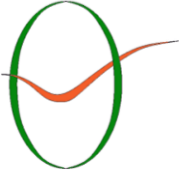
IOT | BIG DATA | MACHINE LEARNING | AI



### KenerSys

EnMS | Sustainability | ISO 50001



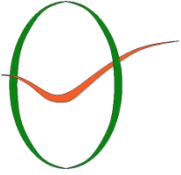


# BENEFIT



## BENEFIT of YATRON Energy

- Authorized Business Partner | Powered by **GE**
  - Global Technical Support, Technical Transfer and Experience.
- Authorized Business Partner | Powered by **ITRI Taiwan**
  - Top ONE Technical Support, Technical Transfer and Experience of High Technology and Traditional Industry in Taiwan
  - 6,000 R&D employees.
  - 400 R&D employees in Green Energy and Environment Research Laboratories.
  - Support the BIG DATA Analysis and System improvement for end users.
- YATRON Energy's Technical and Service team **by Global teams**
  - Headquarter of Europe in London, UK → Best service for Europe and Africa.
  - R&D Center in Taiwan, Munich, Milano → High Quality R&D and production team.
  - EMS products Made in Taiwan and Europe → High Quality.
  - Headquarter of Asia in Macau, teams in Macau, Hong Kong, Taiwan and mainland China → Best service for Greater China.
  - Headquarter of ASEAN in Singapore → Best service for ASEAN.
  - Branch Company and Service Center cover each regions → Fast response time.
  - Strong team background and experience about Owner, Consultancy, Contractor, Manufacturer and S.I → Well known all parties' mindset and requirement.

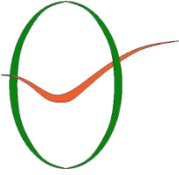


# KEY TOPIC

- **ENERGY MANAGEMENT**
  - ENERGY SAVING
  - ENERGY CONTROL AND MONITORING
- **SYSTEM IMPROVEMENT**
- **SUSTAINABILITY**
- **CSR (CORPORATE SOCIAL RESPONSIBILITY)**
- **ESG**
  - E = ENVIRONMENT
  - S = SOCIAL RESPONSIBILITY
  - G = CORPORATE GOVERNANCE
- **CARBON NEUTRAL**







# KEY TOPIC

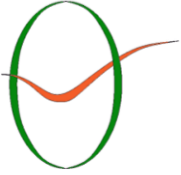
## THE PROBLEMS WITHOUT BAS/EMS

Without BAS and EMS in the factory or building, the equipment and systems will be some issues...

- Control issue
- Management issue
- Maintenance issue
- Risk issue
- Energy loss issue

➔ Cost increasing...





# ENERGY CONSULTING

## WHY YOU NEED ENERGY CONSULTANT?

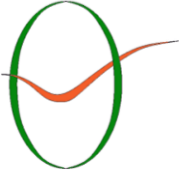
### ■ CARBON NEUTRAL AND ESG

- ISO 50001 / ISO 14064 / ISO 14067 / ISO 14044

- Product selling prices getting lower and lower? → Enhance corporate image and enhance the additional value
- Increase cost of the production → Reduce costs of production, improve efficiency
- Facing difficulty in cost control / reduce? “Bottleneck” → Creativity and assist by advance technology
- Competitiveness of price, market and service decreasing? → Utilize advance technology to reduce manpower
- Decline of competitive advantages → Innovation in management practices
- Plan of the corporate sustainable development direction and pace? → Advisory from international professional consultant

- Global client request for the Corporate Social Responsibility Report and ESG report? → ISO 50001 / ISO 14064 / ISO 14067 / ISO 14044 → Improve corporate image
- Compliance with legal requirements in the local markets? → Energy saving → Improve corporate image
- How to improve the corporate culture? → Improve working environment and corporate image



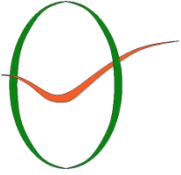


# ENERGY CONSULTING

## WHY YOU NEED ENERGY CONSULTANT?

- Compliance with industry best practices or standards → ISO 50001
- Improve the company's reputation among customers → ISO 50001 → Improve corporate image
- Employee lack of energy? ISO 50001 → Improve the work environment
- Low efficiency in production and yield? ISO 50001 → Improve working environment
- Saving technological transformation projects have been done (Frequency conversion, LED, Heat recovery etc.), How to economize more energy and electricity? → ISO 50001 → It should be done to manage energy and the establishment of efficient energy management software platform
- Employee lack of energy saving concept? → ISO 50001 → Apply high-tech Energy management systems
- Do not have any method to link Energy Saving and KPI together? → ISO 50001 → Apply high-tech Energy management systems and software, it show Monthly, or real-time each sector performance, especially in energy performance.



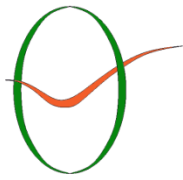


# KEY TOPIC

## ENERGY MANAGEMENT, SAVING, CONTROL AND MONITORING

- ❑ **Build up the EnMS** (Energy Management System): Hardware + Software
- ❑ **Power Quality:** Money saving.
- ❑ **Air conditioning:** Process and environment requirement, temperature of rooms (Control and Monitoring).
- ❑ **Ventilation Fans:** Air flow in the areas (Control and Monitoring).
- ❑ **Elevator and Escalator:** Operation control, time control.
- ❑ **Air Compressors:** Operation control, Pressure guarantee, Air leakage monitoring (Control and Monitoring).
- ❑ **Lightings:** lux management in the working and public areas (Management)
- ❑ **Roof:** Transparence and ventilation (Renovation).
- ❑ **Recycle of waste heat and cooling:** preheat for process, warm water necessary. Precool and cooling recycle.
- ❑ **Energy Management System:** electricity and cost monitoring and reports

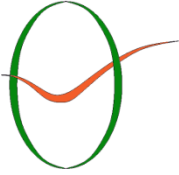




# KEY TOPIC – ENERGY MANAGEMENT CARBON NEUTRAL

Win the energy challenge with  
**ISO 50001**



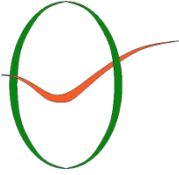


# KEY TOPIC – ENERGY MANAGEMENT CARBON NEUTRAL

## ISO 50001 — What is it ?

- ISO 50001:2011, *Energy management systems – Requirements with guidance for use*, is a voluntary International Standard developed by ISO (International Organization for Standardization).
- ISO 50001 gives organizations the requirements for energy management systems (EnMS).
- ISO 50001 provides benefits for organizations large and small, in both public and private sectors, in manufacturing and service, in all regions of the world.
- ISO 50001 will establish a framework for industrial plants ; commercial, institutional, and governmental facilities; and entire organizations to manage energy.
- Targeting broad applicability across national economic sectors, it is estimated that the standard could influence up to 60% of the world's energy use.

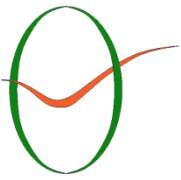




# KEY TOPIC – ENERGY MANAGEMENT CARBON NEUTRAL

## ISO 50001 — What will it do?

- ISO 50001 will provide public and private sector organizations with management strategies to increase energy efficiency, reduce costs and improve energy performance.
- The standard is intended to accomplish the following :
- **CARBON NEUTRAL AND ESG**
- Assist organizations in making better use of their existing energy consuming assets
- Create transparency and facilitate communication on the management of energy resources
- Promote energy management best practices and reinforce good energy management behaviors
- Assist facilities in evaluating and prioritizing the implementation of new energy efficient technologies
- Provide a framework for promoting energy efficiency throughout the supply chain

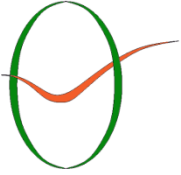


# KEY TOPIC – ENERGY MANAGEMENT CARBON NEUTRAL

## ISO 50001 — What will it do ?

- Facilitate energy management improvements for greenhouse gas emission reduction projects
- Allow integration with other organizational management systems such as environmental, and health and safety (ISO 9001, ISO 18000, ISO 14000)

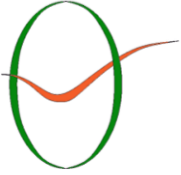




# KEY TOPIC – ENERGY MANAGEMENT CARBON NEUTRAL

## What are the top three reasons why your organization is interested in energy management?

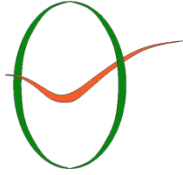
- CARBON NEUTRAL, ESG, CSR
- Reduce/control costs
- Comply with industry best practices or standards
- Improve the company's reputation among customers
- Align with the existing corporate culture
- Protect the global climate
- Get relevant ideas from key clients
- Corporate Social Responsibility Statement in the Annual Report
- Comply with the legal requirements of the local market



# SOLUTIONS

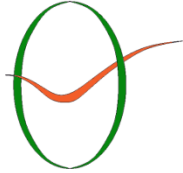
## ENERGY MANAGEMENT SYSTEM(EnMS)

- Power Monitoring and Control System (PMCS)
- Power Quality Management System (PQMS)
- Energy Metering System
- Transformer Monitoring and Control System (TMCS)
- Carbon Emission Management System
- Wind and Solar Energy System
- EV Charger station for Electric Vehicle



# MONITORING AND CONTROL

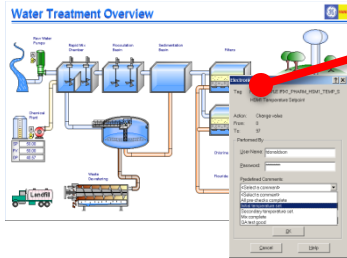




# MONITORING AND CONTROL



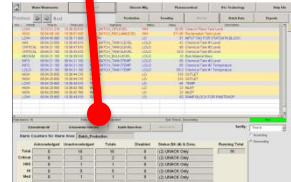
## WebSpace



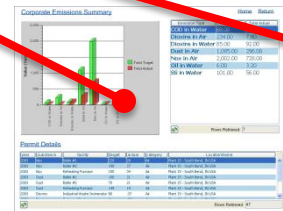
**SCADA Control**



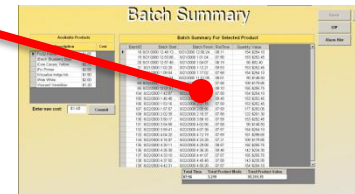
**Historical Analysis**



**Alarm**

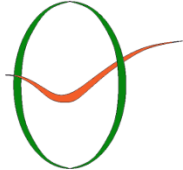


**KPI Monitoring**

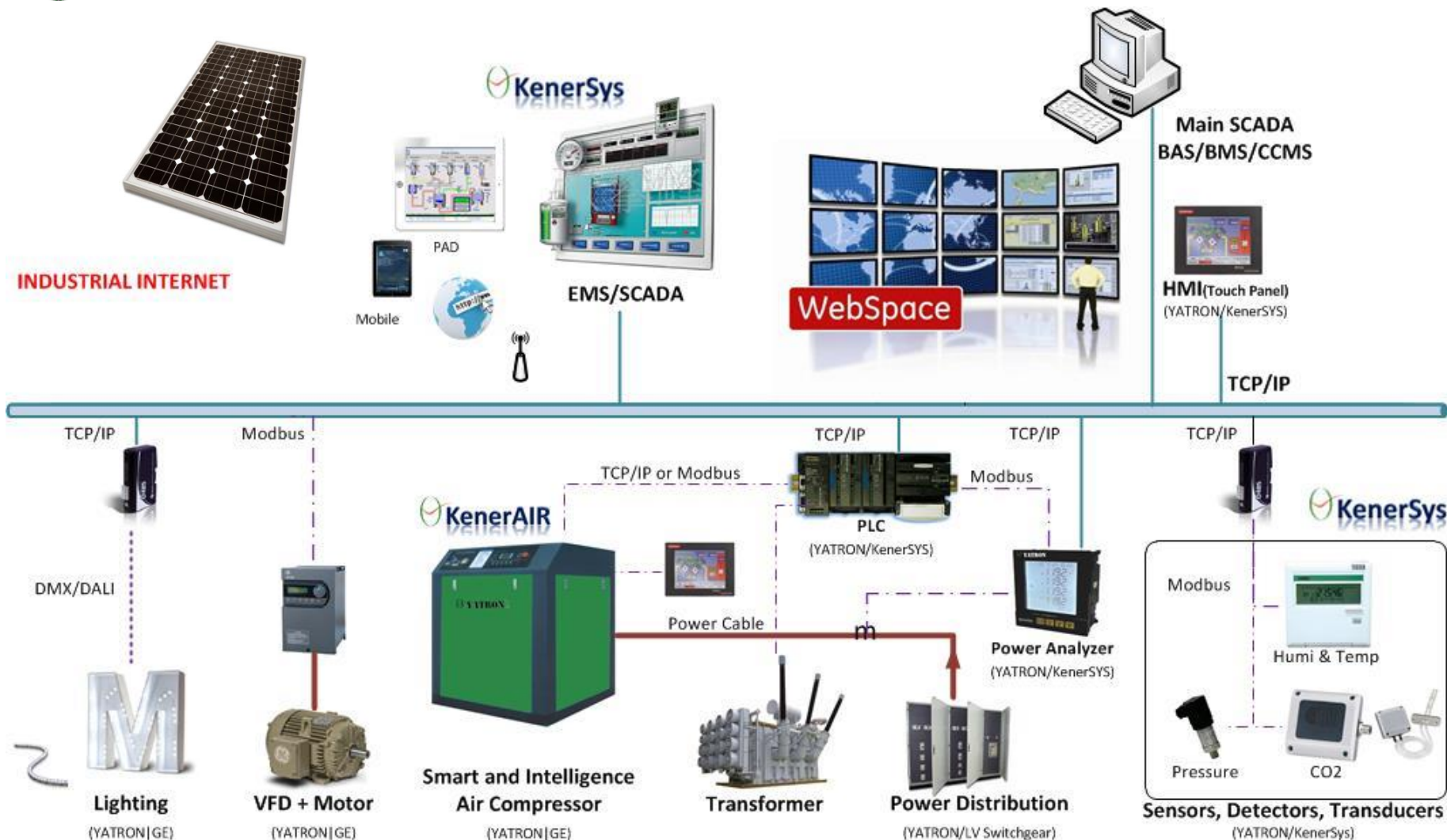


**Operation Report**

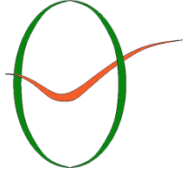




# MONITORING AND CONTROL



## SCHEMATIC系統架構圖



# MONITORING AND CONTROL



## Energy Management Systems

Allowing facility owners to shed some light on the unknowns of their power system, the fully integrated PMCS Energy Management System provides the tools to help control energy costs, minimize downtime and increase productivity.



## Featured Products

**Energy Management Systems**  
Complete automation solution customized to your power management needs

[View Product Info](#)



**Advanced Power Quality Metering**  
Revenue grade power quality capabilities and waveform recording

[View Product Info](#)

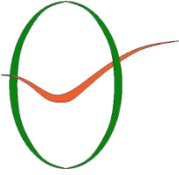


**Managed Ethernet Switches**  
Industrial hardened networking solutions

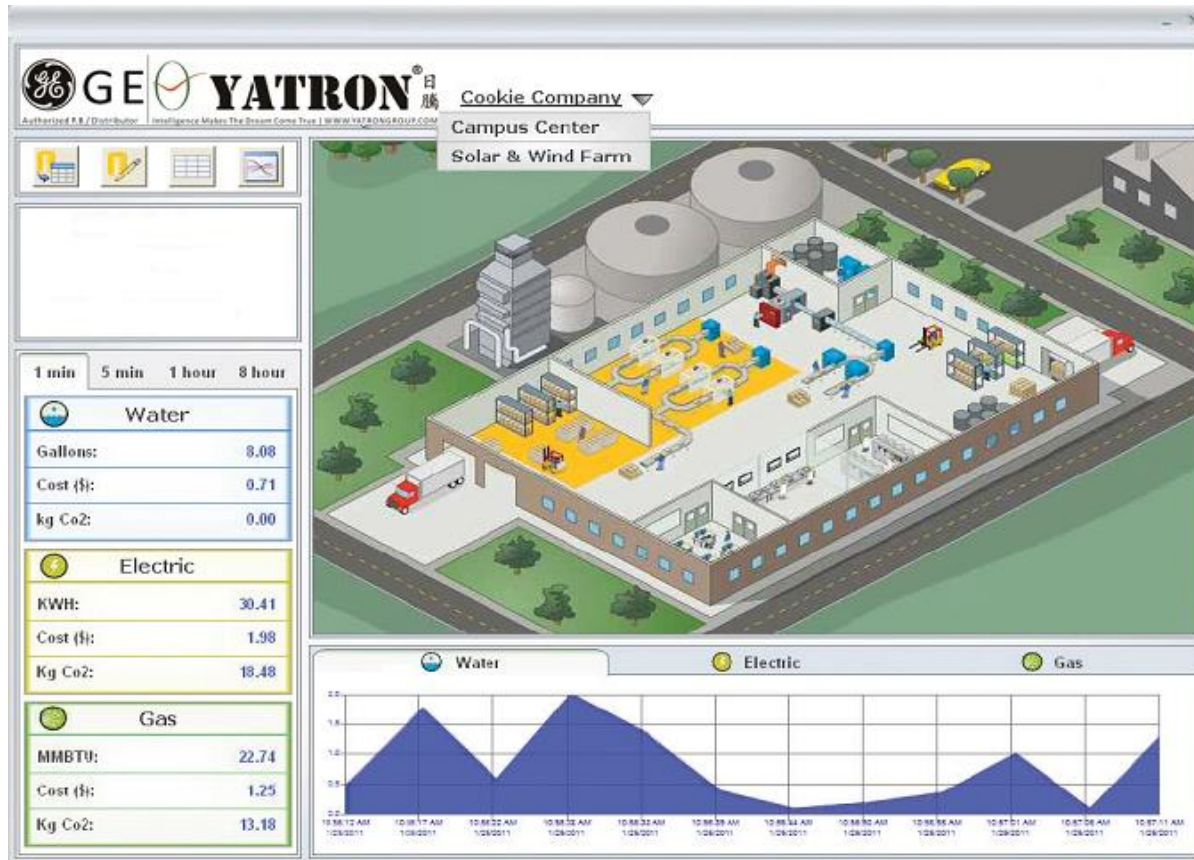
[View Product Info](#)







# MONITORING AND CONTROL

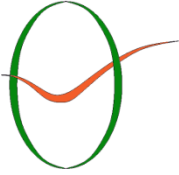


**Leverage automatic and manual data collection methods**

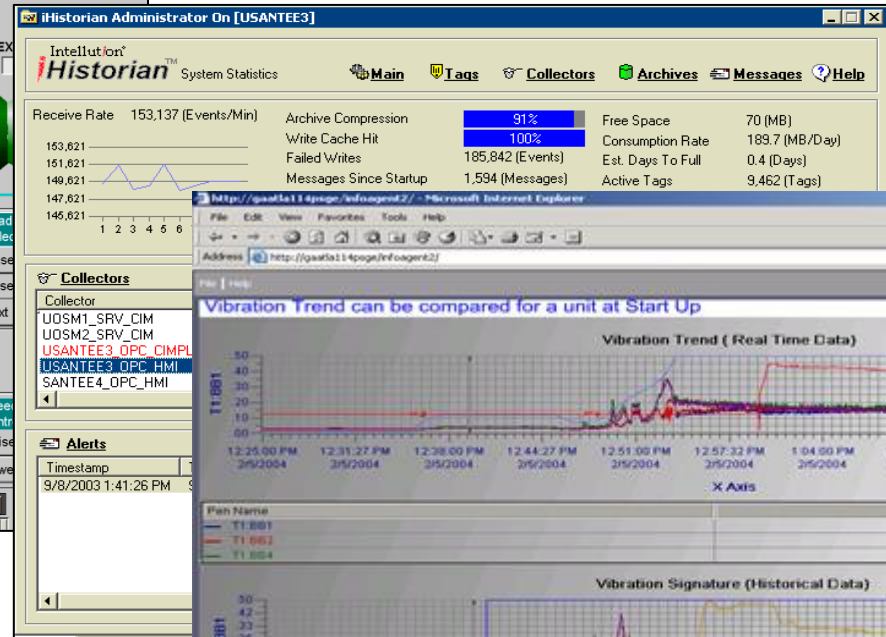
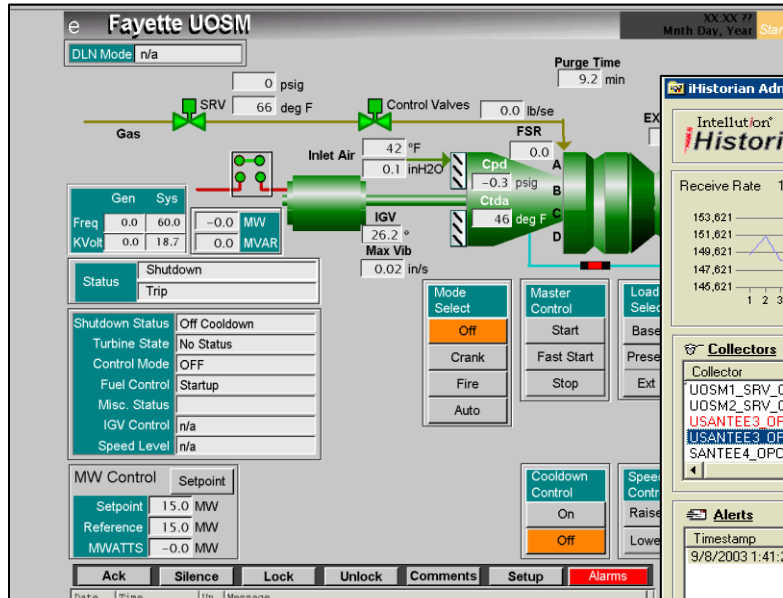
**Contextualize raw data quickly**  
With a configuration wizard that includes CO2 conversion and/or cost conversion factors, you can immediately turn raw consumption figures into cost and emission figures that illustrate the value of reduction initiatives over time.

**Use Proficy out of the box or build application-specific solutions**

- Capture any data stream
  - Water, gas, electricity, steam
  - View data by load type (HVAC, lighting) or building floor
- Base on Consumer type and Loading**

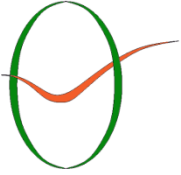


# MONITORING AND CONTROL



- Capture any data stream
  - Water, gas, electricity, steam
  - Base on the data by load type (HVAC, lighting) and building floor.
- Collect and Evaluate the data. And we use those **BIG DATA** analysis and improve the system. **Energy saving up to 40%.**





# MONEY SAVING

## ■ High Efficiency and High Quality EnMS

→ Energy saving up to 40%

→ Money saving up to 40%

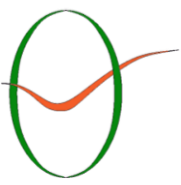


## ■ Earlier you establish EnMS

→ As early you save one more day...

→ To earn more money \$\$\$...





# SMART MUSEUM

## Smart Museum System

IOT | BIG DATA | MACHINE LEARNING | AI



**KenerMUS**



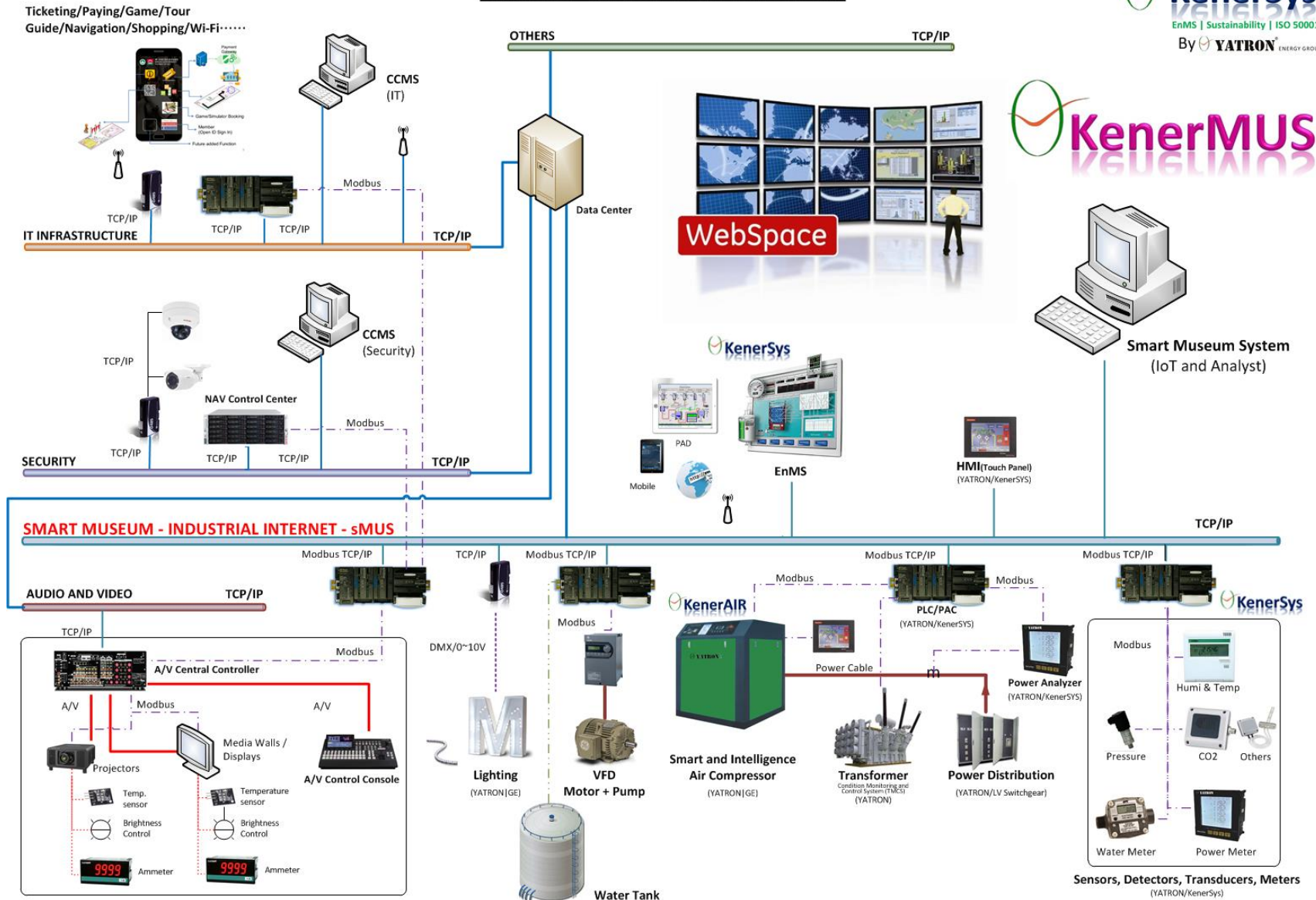
Smart City need SMART MUSEUM  
Let's be SMART ...



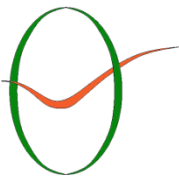


# SMART MUSEUM

## SMART MUSEUM SYSTEM







# RENEWABLE ENERGY



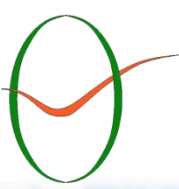
## KenerPV

KENERPV

RENEWABLE ENERGY  
WIND AND SOLAR







# RENEWABLE ENERGY



## RENEWABLE ENERGY

## WIND AND SOLAR ENERGY SYSTEM

## TECHNICAL COOPERATION | SUPPORT FROM

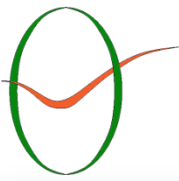


# GE



## 工業技術研究院

Industrial Technology  
Research Institute

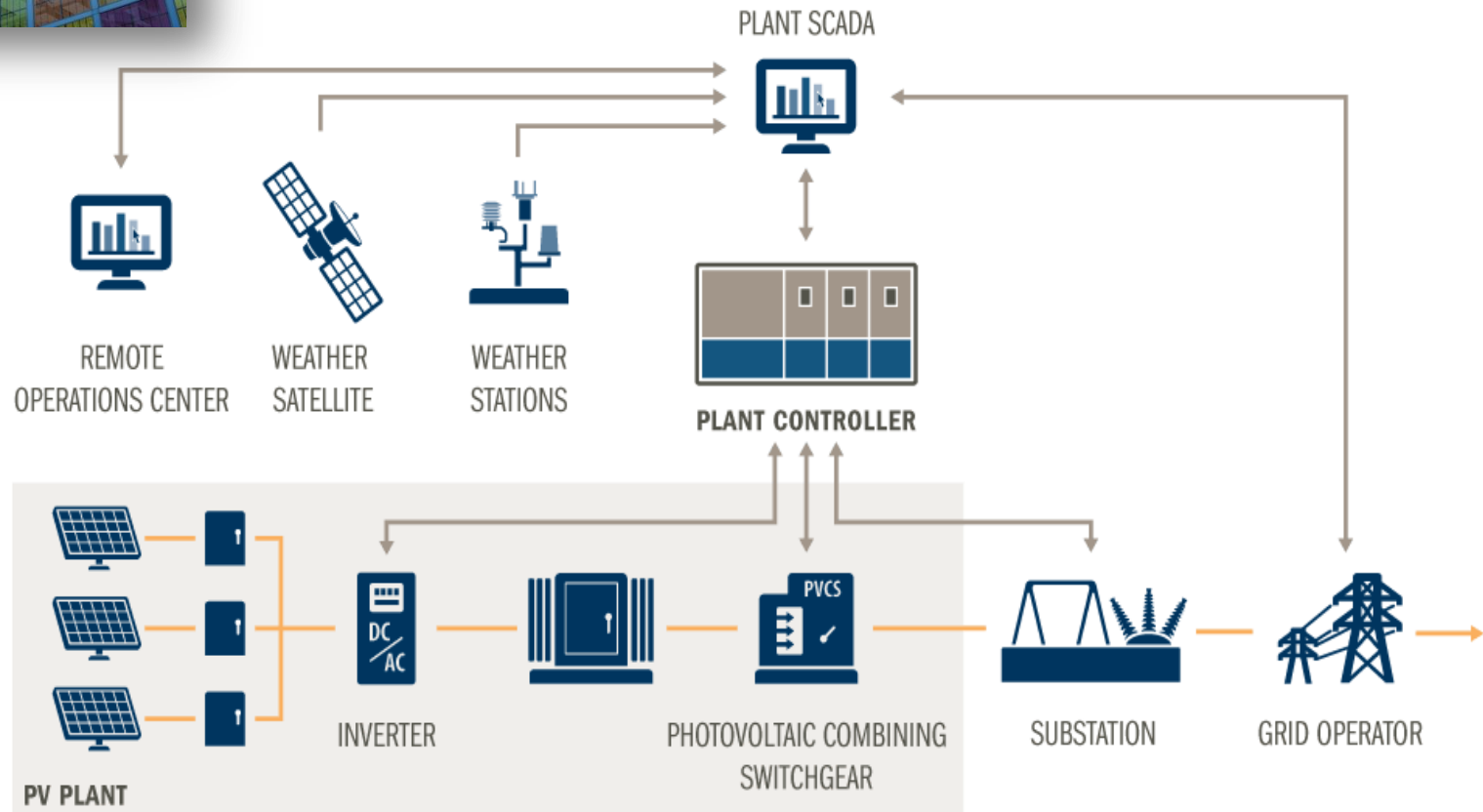


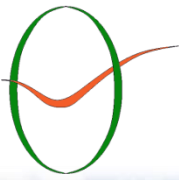
# RENEWABLE ENERGY - PV

## BIPV

### Building-integrated Photovoltaics

## BIPV (large scale) & Grid Scale Solar Power Plant





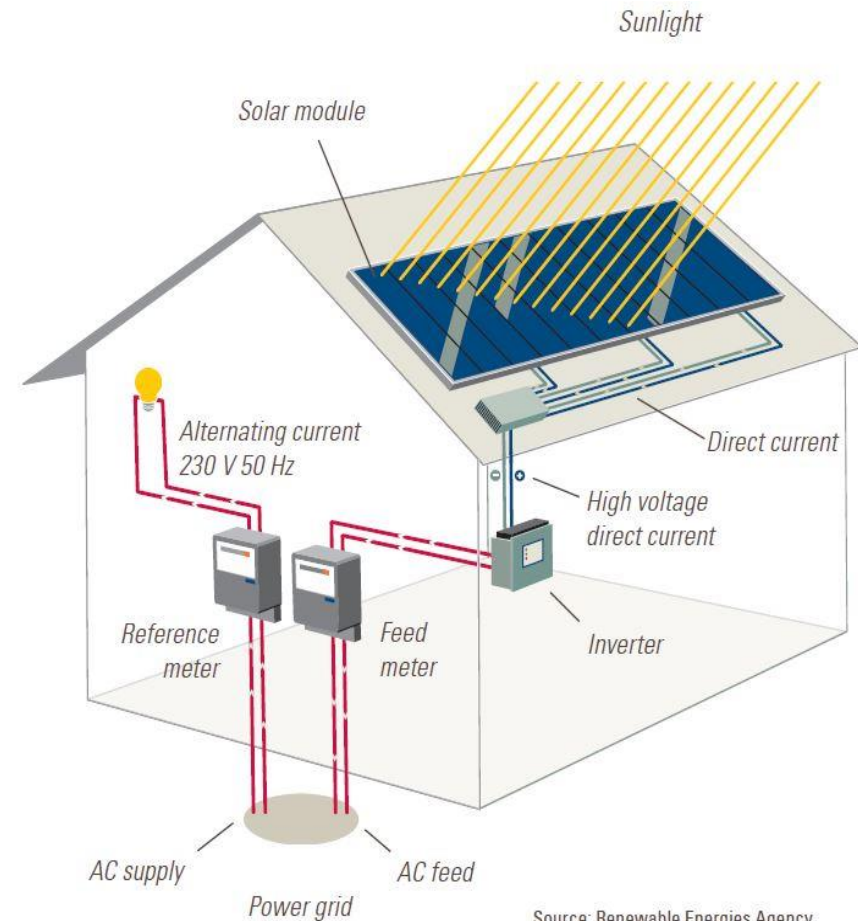
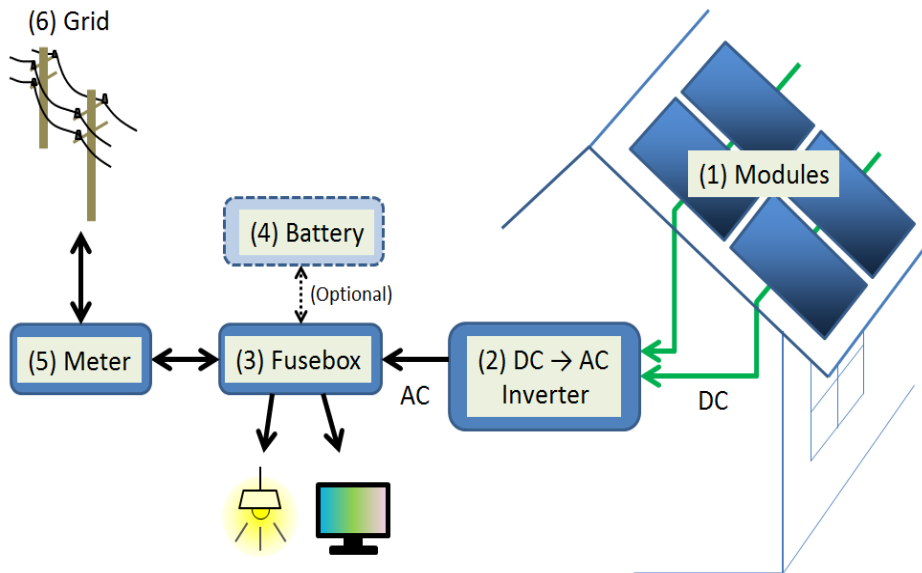
# RENEWABLE ENERGY - PV

## BIPV

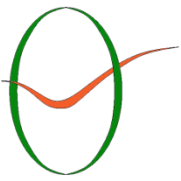
## Building-integrated Photovoltaics



## Home PV Solar Power Plant



Source: Renewable Energies Agency



# RENEWABLE ENERGY - PV

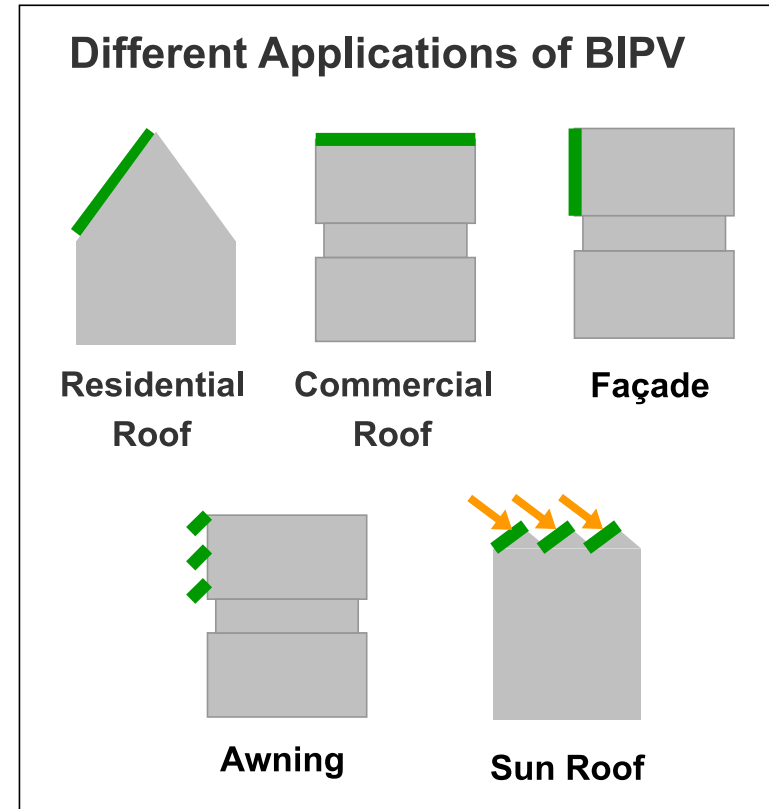


## BIPV Panel

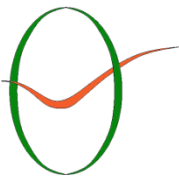
### Building-integrated photovoltaics Panel

#### What is our Solutions?

- Polycrystalline Solar PV panels
- Polycrystalline Solar PV panels (Transparency)
- CIGS Solar PV panels
- CIGS Solar PV panels (Transparency)
- Monocrystalline Solar PV panels
- EnMS (Energy Management System) – Integrate to YATRON's **KenerSys** EnMS...



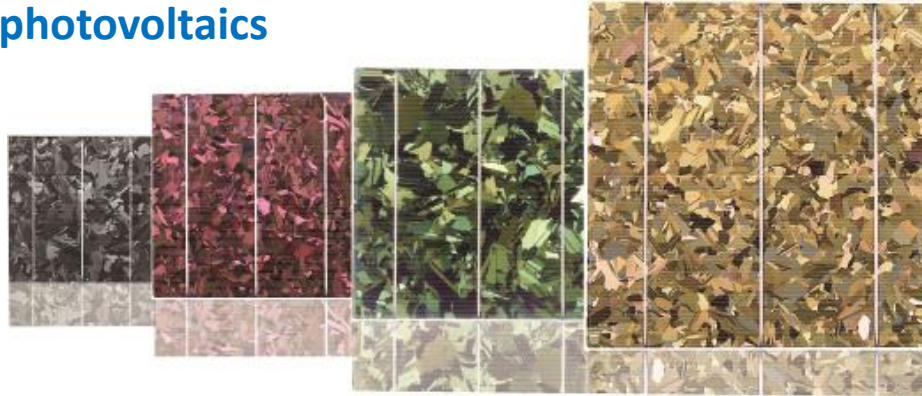




# RENEWABLE ENERGY - PV



## BIPV Panel Building-integrated photovoltaics Panel



**CRYSTAL** Polycrystalline Solar PV



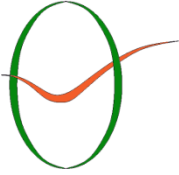
**BLACKSTONE**  
Monocrystalline Solar PV

## SYSTEM BENEFITS

- Global Level and Certificates
- 11 years long term operation.
- Comply with Most Exacting Standards
  - EN, TÜV SÜD/ISO , ITRI in the world.
- Transparency available.
- EnMS (Energy Management System) – Integrate to YATRON's **KenerSys** EnMS...



**BLACKKA** CIGS Solar PV



# RENEWABLE ENERGY - PV

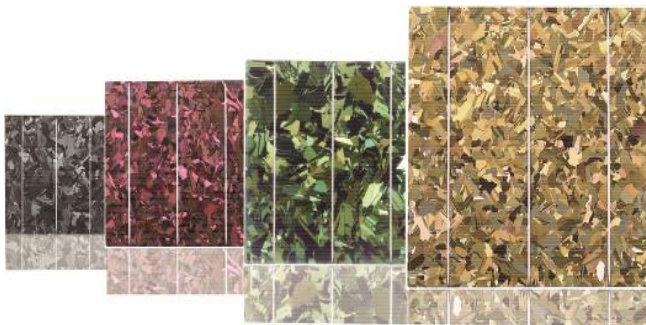


## APPLICATIONS

- Curtain Wall
- Canopy
- Rooftop

## BENEFITS

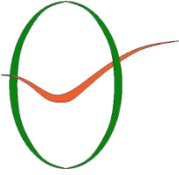
- Beauty and Integrate to Building Façade Curtain wall.
- **Transparency available.**
- 4 standard colors. Other colors are available.
- **Customer made available.**



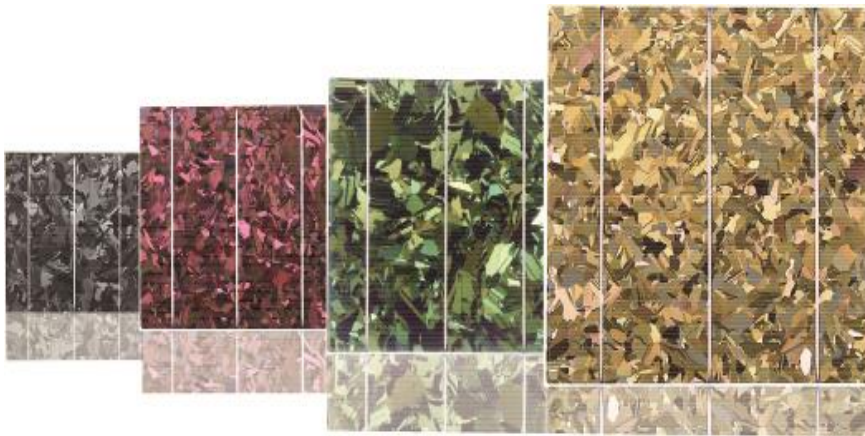
**CRYSTAL** Polycrystalline Solar PV





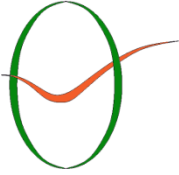


# RENEWABLE ENERGY - PV



**CRYSTAL** Polycrystalline Solar PV

- Crystal Black : 220W
- Crystal Red : 240W
- Crystal Green : 240W
- Crystal Amber : 235W
- Size : Customer made
- Cell Type : Poly crystalline cells
- Wind Load : 5,400Pa
- IP rating : IP67
- Standards : EN, TÜV SÜD/ISO , ITRI
- Transparency available



# RENEWABLE ENERGY - PV

## APPLICATIONS

- Curtain Wall
- Canopy
- Rooftop

## BENEFITS

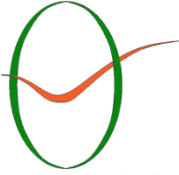
- Largest Size in the world
- Beauty and Integrate to Building Façade Curtain wall.
- Easy maintenance.
- Walkable
- Transparency available 5~20%.



**BLACKKA CIGS Solar PV**







# RENEWABLE ENERGY - PV

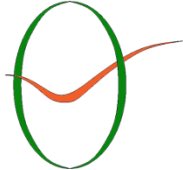
## ■ BENEFITS

- Beauty and Integrate to Building Façade Curtain wall.
- Easy maintenance.
- Walkable.
- **Transparency.**



**BLACKKA CIGS Solar PV**

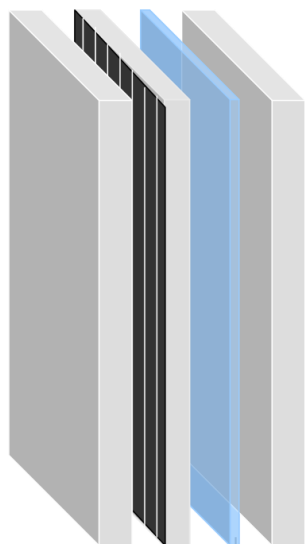




# RENEWABLE ENERGY - PV

## 隔熱及隔音型

Thermal and Sound Insulated



Tempered Glass 強化玻璃

Air 空氣層

CIGS "cell"  
CIGS "電池"

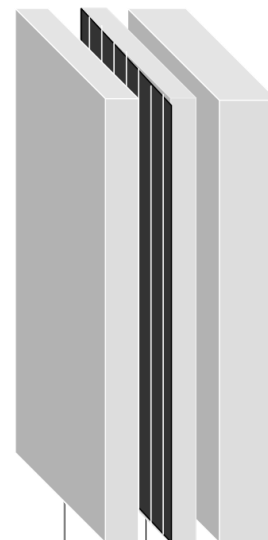


BLACKKA CIGS Solar PV



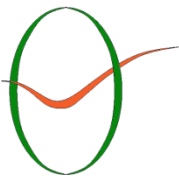
## 耐風壓型

Heavy-Duty



Tempered Glass  
強化玻璃

CIGS "cell"  
CIGS "電池"



# RENEWABLE ENERGY - PV

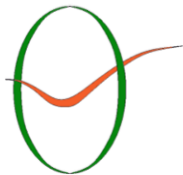


**BLACKKA CIGS Solar PV**

- Power : 130W ~ 160W
- Size : 1100 x 1400mm
- Cell Type : CIGS cells
- Front Cover: Tempered glass
- Back Cover : Tempered glass
- Wind Load : 5,400Pa
- IP rating : IP67
- Standards : EN, TÜV SÜD/ISO , ITRI
- Glass, EVA, Glass, EVA, Glass Transparency available
  - 5~20%







# RENEWABLE ENERGY - PV



## APPLICATIONS

- Curtain Wall
- Canopy
- Rooftop

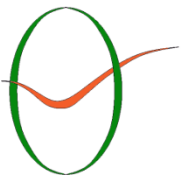
## BENEFITS

- Highest efficiency



**BLACKSTONE** Monocrystalline Solar PV



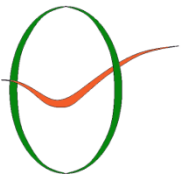


# RENEWABLE ENERGY - PV



**BLACKSTONE** Monocrystalline Solar PV

- Power : 285W ~ 310W
- Size : 1100 x 1400mm
- Cell Type : Mono crystalline cells
- Front Cover : Tempered glass
- Back Cover : Tempered glass
- Wind Load : 5,400Pa
- IP rating : IP67
- Structure : Glass, EVA, Glass, EVA, Glass
- Standards : EN 62716, EN 61701
- TÜV SÜD/ISO, ITRI

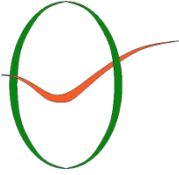


# CONTROL SYSTEM



- Industrial Type
- BS EN, IEC, GB (EU, UK, China)
  - TÜV SÜD/ISO Certificate
  - IEC, BS EN 62208
- Excellent performances
  - IP66
  - Outdoor type Powder coating, 15 years warranty.

**YT-WM Industrial Enclosure**

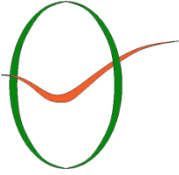


# POWER ANALYZER AND METERING



**KenerSys Power Analyser**

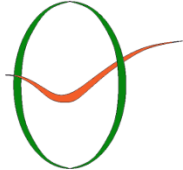
- Industrial Type
- BS EN, IEC, GB (EU, UK, China)
  - TÜV SÜD/ISO Certificate
  - IEC, BS EN, EMC
- Excellent performances and accuracy
- Power consumption and CO rating.
- Long distance RS485 communication (Modbus RTU Mode)



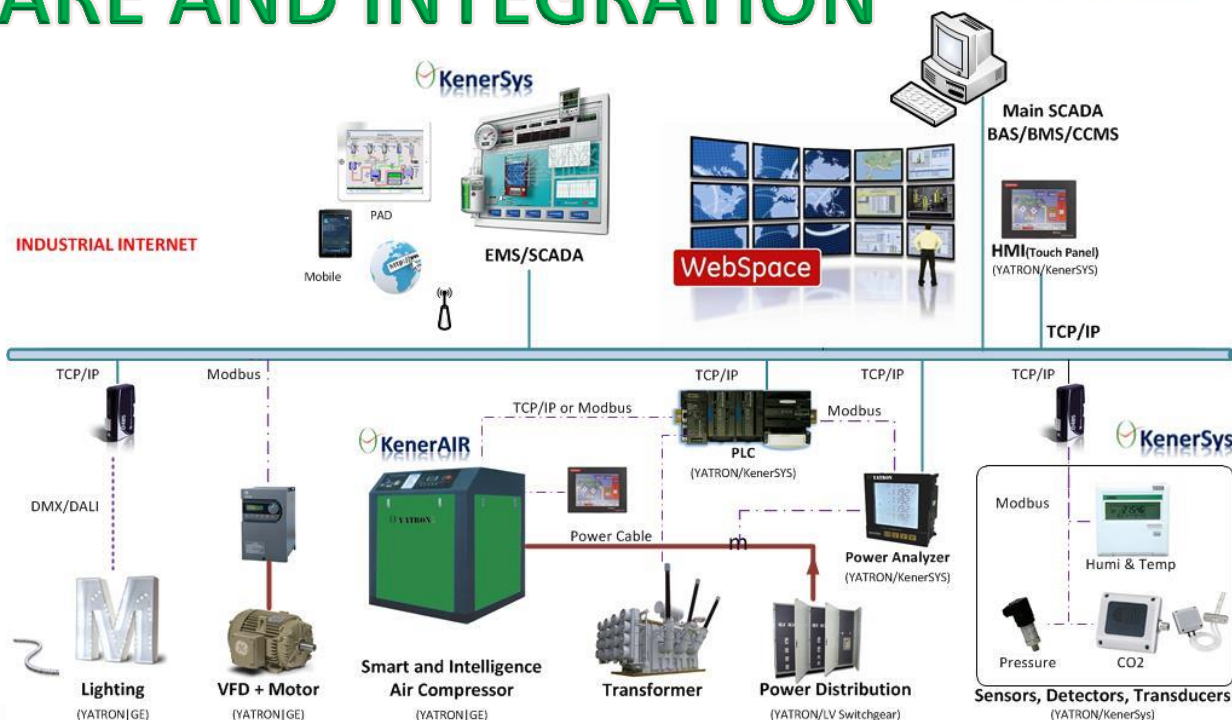
# SOFTWARE AND INTEGRATION







# SOFTWARE AND INTEGRATION

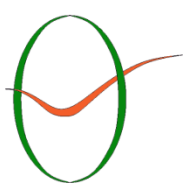


**KenerSys Energy Management System**

## Integrate KenerPV to KenerSys Energy Management System

- International Level and Certificates
- Industrial Grade
- BS EN, IEC, GB (EU, UK, China)
  - TÜV SÜD/ISO Certificate
  - IEC, BS EN, EMC
- Excellent performances and accuracy

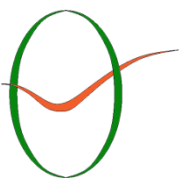




# POWER DISTRIBUTION



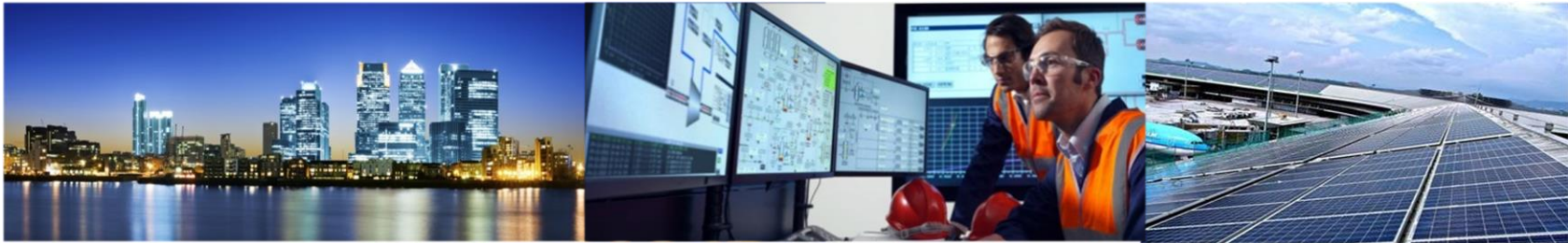
Modula Plus - Modula 630



# POWER DISTRIBUTION



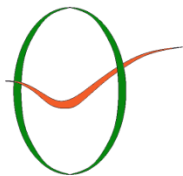
- Power Distribution, Renewable and Green Energy
  - HV, MV, LV Switchgear and Controlgear, Component, RMU, Busway
  - UPS, ATS, PLC, SCADA, Power Analyzer, Transformer
  - Solar and Wind System | EV Charger Station



## ■ Lighting Solutions







# GLOBAL PARTNERS AND RESOURCES

OSRAM



NEC

SICK

MOTION & CONTROL™  
NSK



MEC



FESTO



ALSTOM OMRON

Schneider  
Electric

EATON



ABB



mci



phrozen

htc

SIEMENS



Panasonic



formlabs

intertek



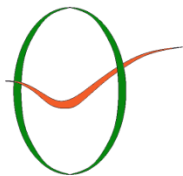
Mobil



Technip














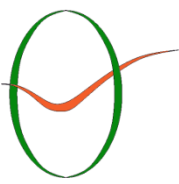


# POWER DISTRIBUTION



## ■ Low voltage Switchgears and Controlgears Assemblies


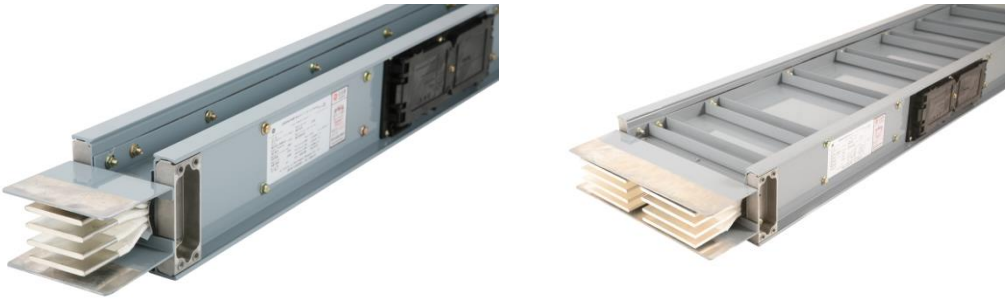
Brand:	  <b>YATRON®</b>	  <b>YATRON®</b>	 <b>YATRON®</b>
Series:	<b>Modula Plus</b>	<b>Modula 630</b>	<b>YT-M</b>
Standard:	BS EN / IEC 61439		
Nominal Current:	Up to 4000A	Up to 630A	Up to 125A
Nominal Voltage:	690AC-50/60Hz	690AC-50/60Hz	690AC-50/60Hz
Degrees of protection:	IP30, IP41, IP43, IP55	IP30, IP41, IP43, IP55	IP40, IP43
Size and Units:	H: 2000mm W: 400, 650, 900mm D: 500, 700, 1000mm	H: 545~1910mm W: 600, 900mm D: 250, 300mm	4~60 Units
			

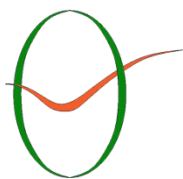


# POWER DISTRIBUTION



## ■ Busway (Busbar Trunking System)








Brand:	 <b>YATRON®</b>
Series:	<b>KenerBuss</b>
Standard:	BS EN / IEC 61439
Nominal Current:	100 to 5000A
Nominal Voltage:	690AC-50/60Hz
Degrees of protection:	IP40, IP54, IP66
Plugin Units:	25 to 400A
Options:	Temperature and Vibration Monitoring, IoT
	

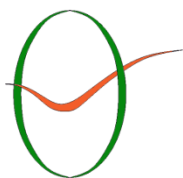


# POWER DISTRIBUTION



## ■ Industrial Enclosure and Rack System






Brand:	 <b>YATRON®</b>	 <b>YATRON®</b>	 <b>YATRON®</b>
Product name:	Industrial Enclosure	Weather proof Encl.	Computer Rack
Standard:	BS EN / IEC 62208		
Series:	YT-WM	YT-SMB	YT-R
Nominal Current:	Up to 630A	Up to 125A	24, 42, 48U
Nominal Voltage:	690AC-50/60Hz	690AC-50/60Hz	400AC-50/60Hz
Degrees of protection:	IP41, IP43, IP55, IP66	IP55, IP66, IP67	IP20
Size and Units:	H: 300~2000mm W: 300~1000mm D: 200~300mm	H: 30~1910mm W: 50~900mm D: 50~300mm	H: 1200~2250mm W: 600, 800mm D: 1100, 1200mm
			



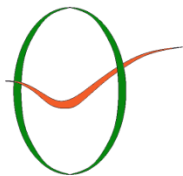
# POWER DISTRIBUTION



## ■ Low voltage and Medium Voltage Components

Brand:	 <b>EAT•N</b>	 <b>EAT•N</b>	 <b>YATRON®</b>
Product name:	ACB	ACB	ACB
Series:	M-Pact	Entellguard G	KenerPMP
Nominal Current:	400~4000A	400~6400A	400~6300A
Nominal Voltage:	690AC-50/60Hz	690AC-50/60Hz	690AC-50/60Hz
Breaking capacity:	50~80kA	50~150kA	50~80kA
   			













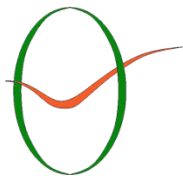


# POWER DISTRIBUTION



## ■ Low voltage and Medium Voltage Components











Brand:	 <b>EAT•N</b>	 <b>EAT•N</b>	 <b>YATRON®</b>
Product name:	MCCB	MCCB	MCCB
Series:	Record Plus	Record MC	KenerPMC
Nominal Current:	Up to 1600A	Up to 1600A	Up to 1600A
Nominal Voltage:	690AC-50/60Hz	690AC-50/60Hz	690AC-50/60Hz
Breaking capacity:	25~150kA	25~35kA	25~35kA
   			

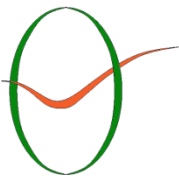


# POWER DISTRIBUTION



## ■ Low voltage and Medium Voltage Components










Brand:	 <b>EAT•N</b>	 <b>YATRON®</b>	 <b>YATRON®</b>
Product name:	<b>MCB Surge Arrester</b>	<b>MCB</b>	<b>Surge Arrester</b>
Series:	<b>Redline</b>	<b>KenerPGL</b>	<b>KenerPGL</b>
Nominal Current:	Up to 125A	Up to 125A	limp 15~100kA
Nominal Voltage:	400AC-50/60Hz		
Breaking capacity:	6~125kA	6~10kA	---
   			

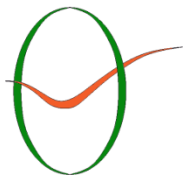


# POWER DISTRIBUTION



## ■ Low voltage and Medium Voltage Components



















Brand:	 <b>EATON</b>	 <b>YATRON</b> <sup>®</sup>	<b>EATON</b>
Product name:	Isolator Loadbreak Disconnecter	Isolator Loadbreak Disconnecter	Fuse Link Fuse Holder
Series:	Dilos Fulos	KenerPD	Bussmann
Nominal Current:	20 ~ 2500A	20 ~ 2500A	2 ~ 1250A
Nominal Voltage:	Up to 690AC-50/60Hz	Up to 690AC-50/60Hz	Up to 690AC-50/60Hz
   			



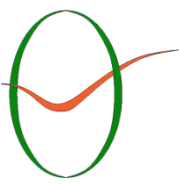
# AUTOMATION AND CONTROLS



## ■ Automation and Control Components

Brand:	 	     	
Product name:	Contactor	PLC, PAC, Contactor, Relay, Controls	Power Analyzer Sensors
Series:	M, CL, CK, CB Line	---	KenerSys-xx
Nominal Current:	9~1250A	---	---
Nominal Voltage:	690AC-50/60Hz	690AC-50/60Hz	---
    			 



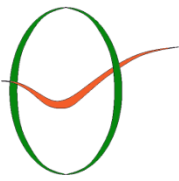


# POWER QUALITY



## ■ Low voltage and Medium Voltage Components and System




Brand:	 <b>YATRON®</b>	 <b>YATRON®</b>	 <b>YATRON®</b>
Product name:	Capacitor bank	Reactor	Harmonic Filter System
Series:	KenerCAP	KenerRA	KenerHAR
Nominal Current:	---	---	---
Nominal Voltage:	240V, 480V, 525V, 600V, 900V		
Capacity:	10kVar ~ 100kVar	0.6kVar ~ 20kVar	---
   			



# POWER QUALITY



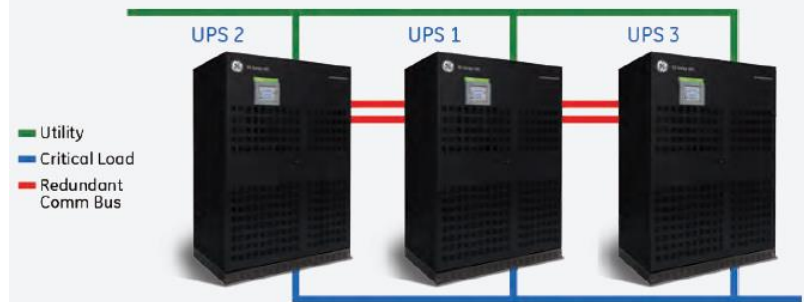
## ■ UPS (Uninterruptible Power Supply)

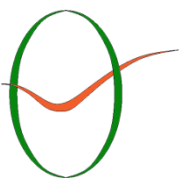
Brand:			
Series:	Tower Rack Mount		
Output power rating:	1 to 600kVA		
Nominal Voltage:	380/400/415VAC-50/60Hz		
Efficiency:	Up to 99%		



### Standard RPA™ Configuration:

True Redundancy with Distributed Control & Bypass





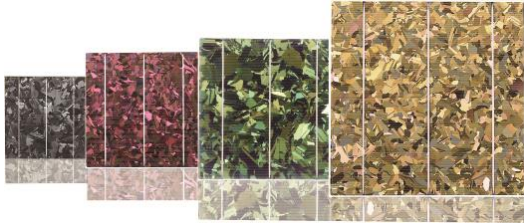


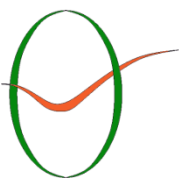


# RENEWABLE ENERGY



## ■ Solar Photovoltaics (PV)




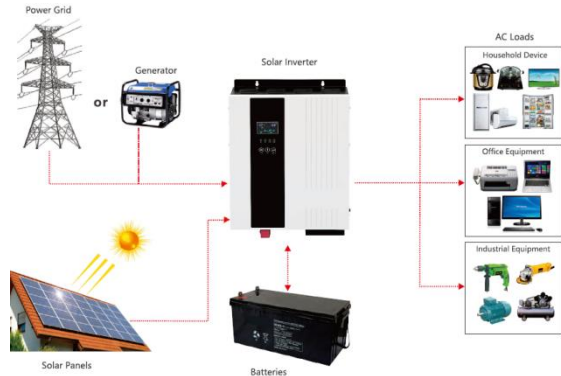
Brand:	 <b>YATRON®</b>	 <b>YATRON®</b>
Product name:	PV Panel	PV Panel
Series:	KenerPV - BLACKSTONE	KenerPV - CRYSTAL
Cell type:	Mono crystalline	Polycrystalline
Power:	285W ~ 510W	220W ~ 240W
Size:	1100 x 1400mm	Customer made
Standards:	EN 62716, EN 61701	EN 62716, EN 61701
		



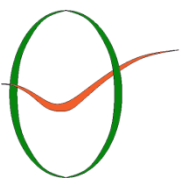
# RENEWABLE ENERGY



## ■ Solar Inverter

Brand:		
Product name:	Inverter	
Series:	KenerPV	
Application:	Solar PV	
Power:	1000 ~ 7200W	
Battery voltage:	12, 24, 48VDC	
Standards:	BS EN / IEC	
		







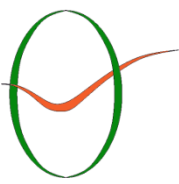


# RENEWABLE ENERGY









## ■ ESS (Energy Storage System)

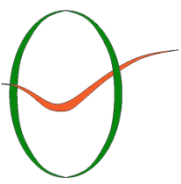
Brand:		
Product name:	ESS (Energy Storage System)	
Series:	KenerPV	
Application:	Solar PV	EV Charging Station
Power:	3 ~ 350kW	
Size:	Customer made	
Standards:	BS EN / IEC	
		



# CABLE AND WIRE



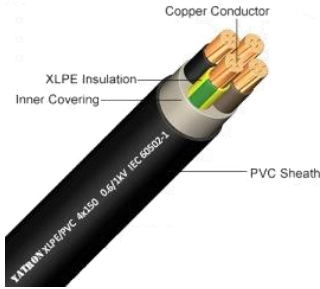
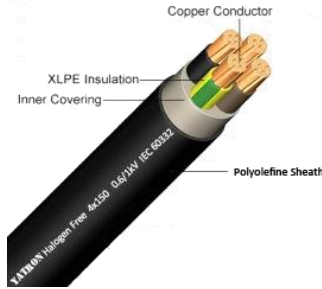
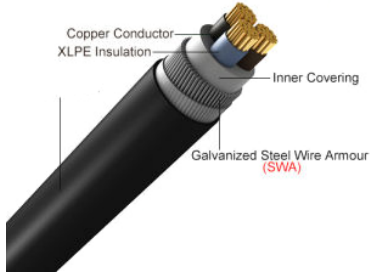


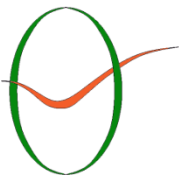
<b>Brand:</b>	 <b>YATRON®</b>	 <b>YATRON®</b>	 <b>YATRON®</b>
<b>Product name:</b>	<b>H07V-U (Solid, Class 1)</b>	<b>H07V-R (Stranded, Class 2)</b>	<b>H07V-K (Flexiable, Class 5)</b>
<b>Series:</b>	---	---	---
<b>Nominal Cross Section Area:</b>	0.5 ~ 4mm <sup>2</sup>	1.5 ~ 240mm <sup>2</sup>	1.5 ~ 240mm <sup>2</sup>
<b>Standards:</b>	IEC 60227-3 EN 50525-2-31	IEC 60227-3 EN 50525-2-31	IEC 60227-3 EN 50525-2-31
<b>Rated Voltage:</b>	300/500V, 450/750V	450/750V	450/750V
<b>Temperature:</b>	70°C / 90°C	70°C / 90°C	70°C / 90°C
			






# CABLE AND WIRE



<b>Brand:</b>	 <b>YATRON<sup>®</sup></b>	 <b>YATRON<sup>®</sup></b>	 <b>YATRON<sup>®</sup></b>
<b>Product name:</b>	<b>XLPE/PVC</b>	<b>Halogen Free (LSOH)</b>	<b>SWA or AWA</b>
<b>Series:</b>	---	---	---
<b>Nominal Cross Section Area:</b>	1.5 ~ 800mm <sup>2</sup>	1.5 ~ 800mm <sup>2</sup>	1.5 ~ 800mm <sup>2</sup>
<b>Standards:</b>	IEC 60502-1	IEC 60332-1 & 3 IEC 60754, IEC 61034	IEC 60502-1
<b>Rated Voltage:</b>	0.6/1kV	0.6/1kV	0.6/1kV
<b>Temperature:</b>	90°C	90°C	90°C
			

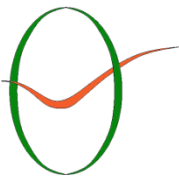


# LIGHTING SOLUTIONS




Brand:			
Application:	Commercial Industrial	Commercial Industrial	Commercial Industrial Custom made
Lamps:	Traditional LED	Traditional LED	Traditional LED
Color temperature:	2700K / 3000K / 4000K / 6500K / RGB		
Working time (hours):	50,000 (standard) and up to 100,000 (options)		
Degrees of protection:	IP30, IP41, IP43, IP55, IP66, IP67		



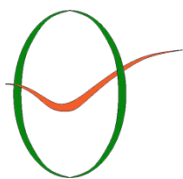




# LIGHTING SOLUTIONS













<b>Brand:</b>			
<b>Application:</b>	Commercial Industrial	Commercial Industrial	Commercial Industrial Custom made
<b>Fixtures:</b>	Traditional LED	Traditional LED	Traditional LED
<b>Color temperature:</b>	2700K / 3000K / 4000K / 6500K / RGB		
<b>Working time (hours):</b>	50,000 (standard) and up to 100,000 (options)		
<b>Degrees of protection:</b>	IP30, IP41, IP43, IP55, IP66, IP67		

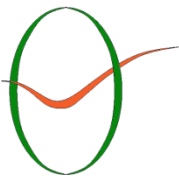




# AUTOMATION AND ROBOTICS









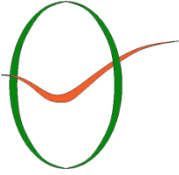
Brand:	  <b>YATRON®</b>	  <b>YATRON®</b>	 <b>YATRON®</b>
Product name:	Robot	AGV, ARM	UAV
Series:	IRB / KenerBOT	KenerBOT	KenerBOT
Payload:	1.5 ~ 800kg	Up to 10,000kg	Up to 5kg
Reach, Speed: Time:	0.37 ~ 4.2m	Up to 2m/sec Up to 60 mins	Up to 80km/hr Up to 60 mins
Standards:	BS / EN / IEC / UL / ASTM		
		  MOUSE LINE 鼠标式牵引AGV T403(IRB-M100) T702(BidibOT 2000)  TRACTOR LINE 牵引式AGV T901(TriBOT 5000) T901(TriBOT 10000)	  PLATFORM LINE 源升平台式AGV Differ 600 Differ 800 PB04(Differ 1500)  FORKLIFT LINE 叉车式AGV F602(C16000) F702(CB2000)



# 3D PRINTING



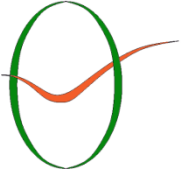
Brand:			
Product name:	3D Printer	3D Printer	3D Printing System
Application:	Commercial	Commercial Industrial	Commercial Industrial Custom made
Series:	Sonic	Form	KenerSys
Standards:	BS / EN / IEC / UL / ASTM		
Grade:	Player	Professional	Professional
			



# MONITORING AND CONTROL



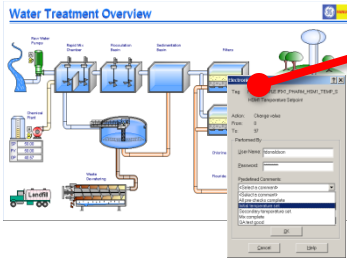




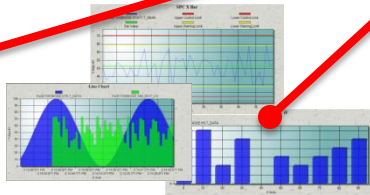
# MONITORING AND CONTROL



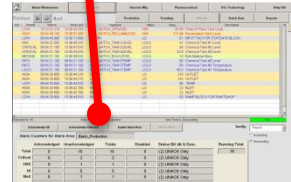
## WebSpace



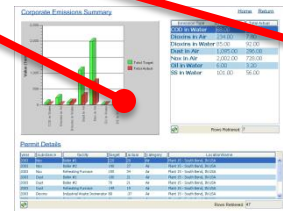
**SCADA Control**



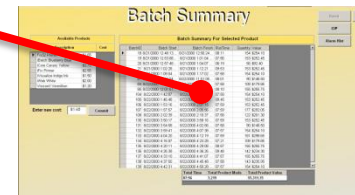
**Historical Analysis**



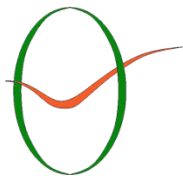
**Alarm**



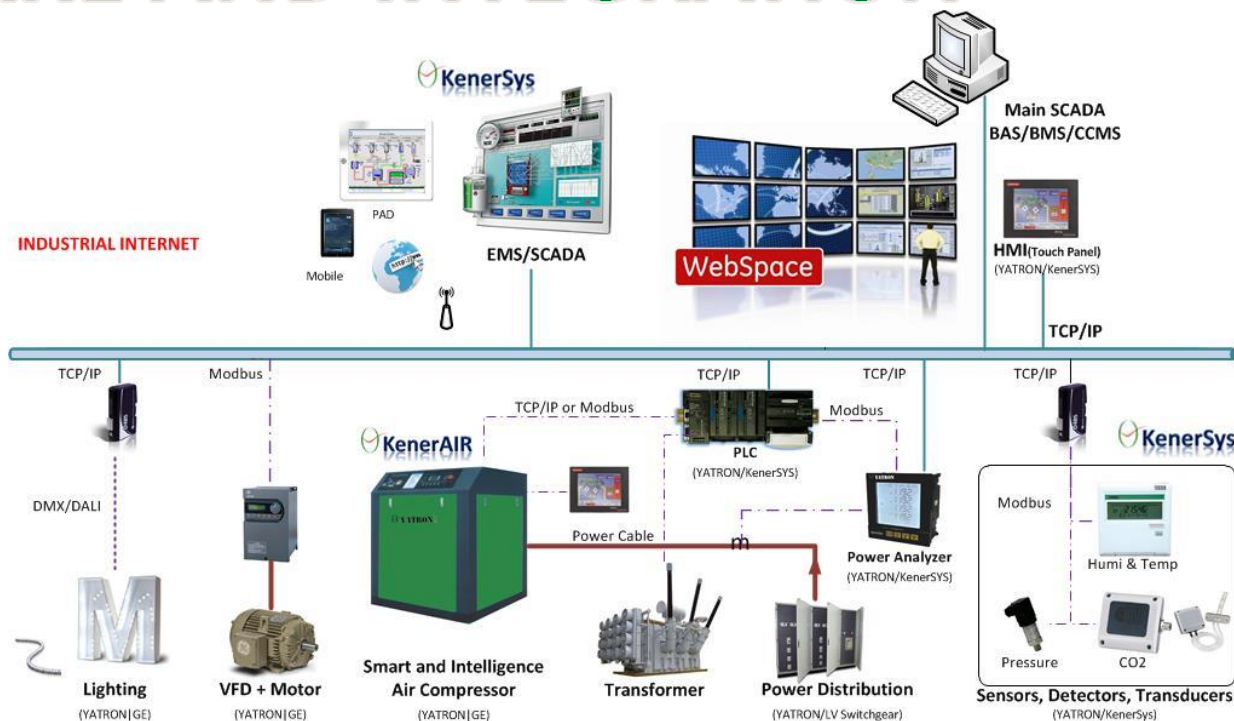
**KPI Monitoring**



**Operation Report**



# SOFTWARE AND INTEGRATION



**KenerSys Energy Management System**

## Integrate KenerPV to KenerSys Energy Management System

- International Level and Certificates
- Industrial Grade
- BS EN, IEC, GB (EU, UK, China)
  - TÜV SÜD/ISO Certificate
  - IEC, BS EN, EMC
- Excellent performances and accuracy



# POWER QUALITY MANAGEMENT SYSTEM (PQMS)



## RPC&HF equipment



- Capacitor units
- Reactors
- Electronic products
- Capacitor banks
- Active filters

## Special applications

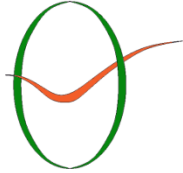


- FACTS solutions
- HVDC projects
- AC/DC rectifier substations

## Services

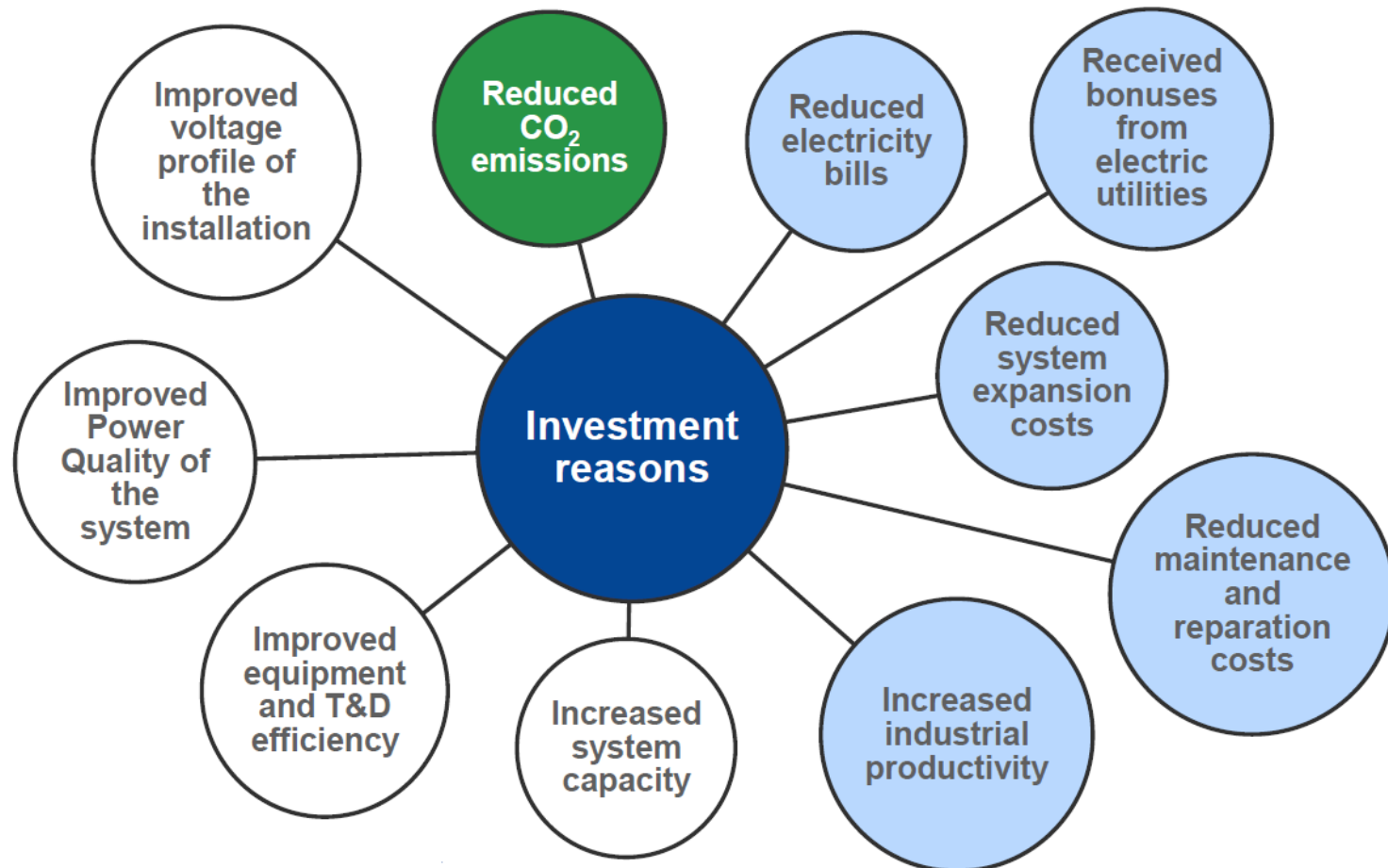


- Network consulting
- Project support
- After sales

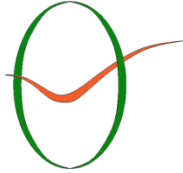


# POWER QUALITY MANAGEMENT SYSTEM (PQMS)

## INVESTMENT REASONS







# POWER QUALITY MANAGEMENT SYSTEM (PQMS)



## INVESTMENT REASONS

### ■ REDUCED ELECTRICITY BILLS

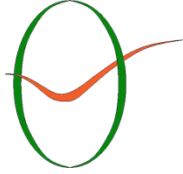
- ❑ Power consumption reduced
- ❑ Low power factor penalties avoided

### ■ REDUCED SYSTEM EXPANSION COSTS

- ❑ Reduction in demand allows increase the loads in the installation without needing more contracted power

### ■ REDUCED MAINTENANCE AND REPAIR COSTS

- ❑ The lifetime of switchgear and cables increases due to reduction of current passing through them (which leads also to decreasing the operating temperature)
- ❑ Avoided blown fuses and blown distribution boards



# POWER QUALITY MANAGEMENT SYSTEM (PQMS)



## INVESTMENT REASONS

### ■ INCREASED SYSTEM CAPACITY

- ❑ Extra kVA availability from the existing supply allow the connection of new loads
- ❑ Overloaded transformers are avoided

### ■ IMPROVED EQUIPMENT AND T&D EFFICIENCY

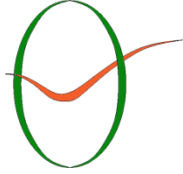
- ❑ Increased active power output from power transformers
- ❑ Decreased power losses (decreased of total current flow)

### ■ IMPROVED POWER QUALITY OF THE SYSTEM

- ❑ Improved power factor
- ❑ Improved system stability
- ❑ Reduced harmonic content

### ■ IMPROVED VOLTAGE PROFILE OF THE INSTALLATION

- ❑ Rise of installation voltage
- ❑ Reduced voltage drop in cables



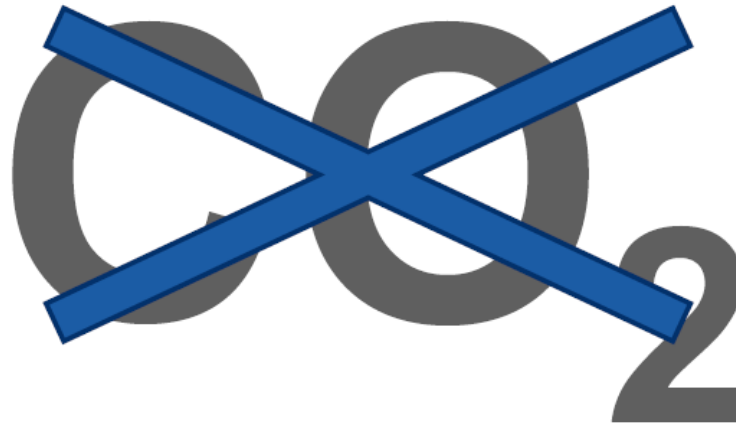
# POWER QUALITY MANAGEMENT SYSTEM (PQMS)



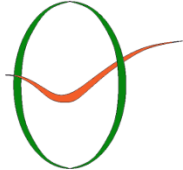
## INVESTMENT REASONS

### ■ ENVIRONMENTAL

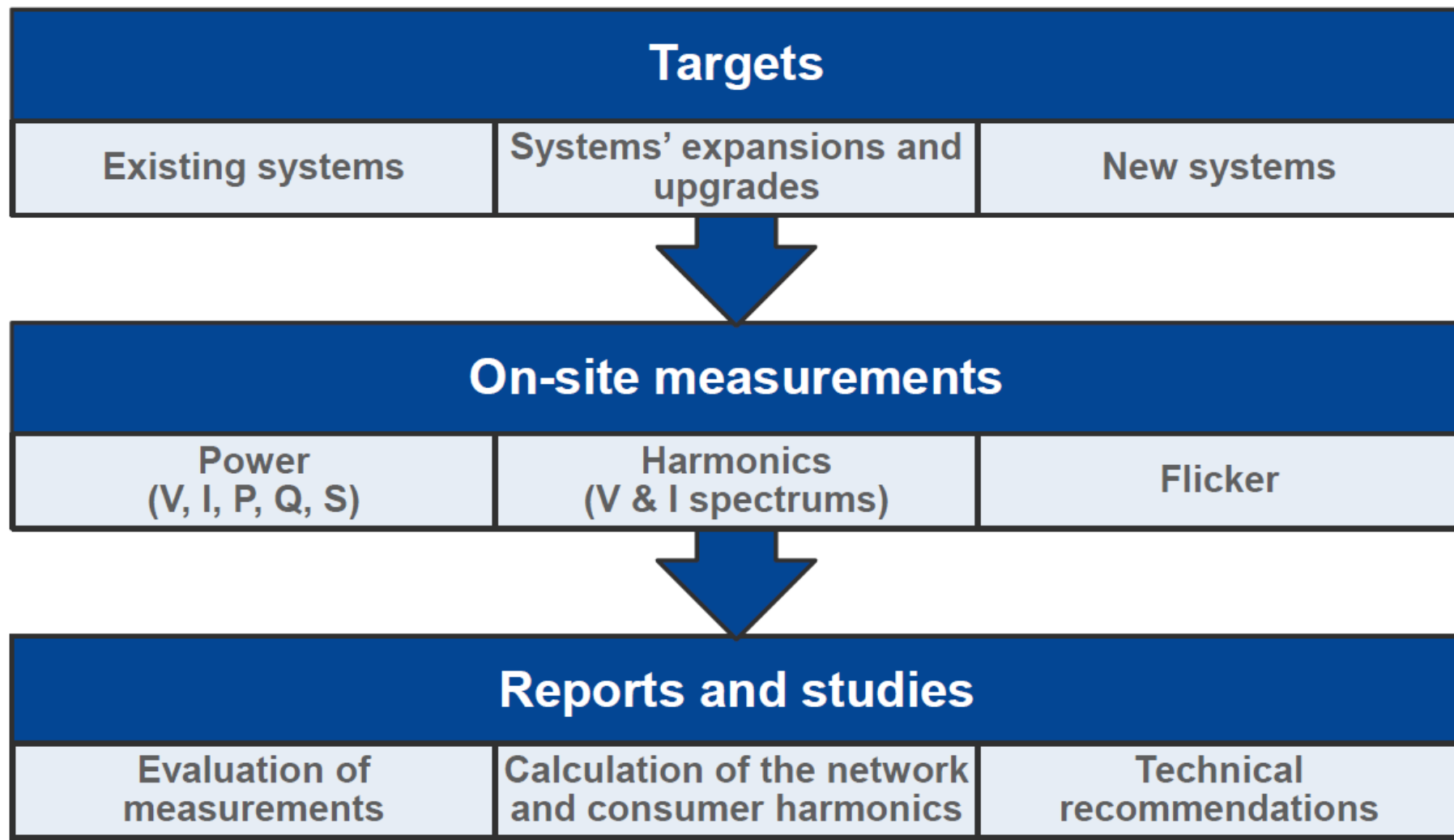
- Use of PQ&EE equipment reduces the amount of carbon emissions released into the atmosphere



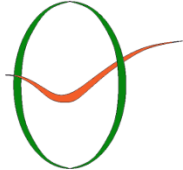
**PQ&EE = Money savings + Better installation efficiency +  
Reduced CO2 emissions**



# Power Quality Management System (PQMS)







# Power Quality Management System (PQMS)

## Solution configuration

Dimensioning and  
product selection

Technical support

Product and system  
engineering



## Erection works

Civil works

Mechanical  
installation

Electrical  
installation

Supervision

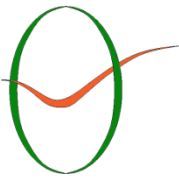


## Commissioning

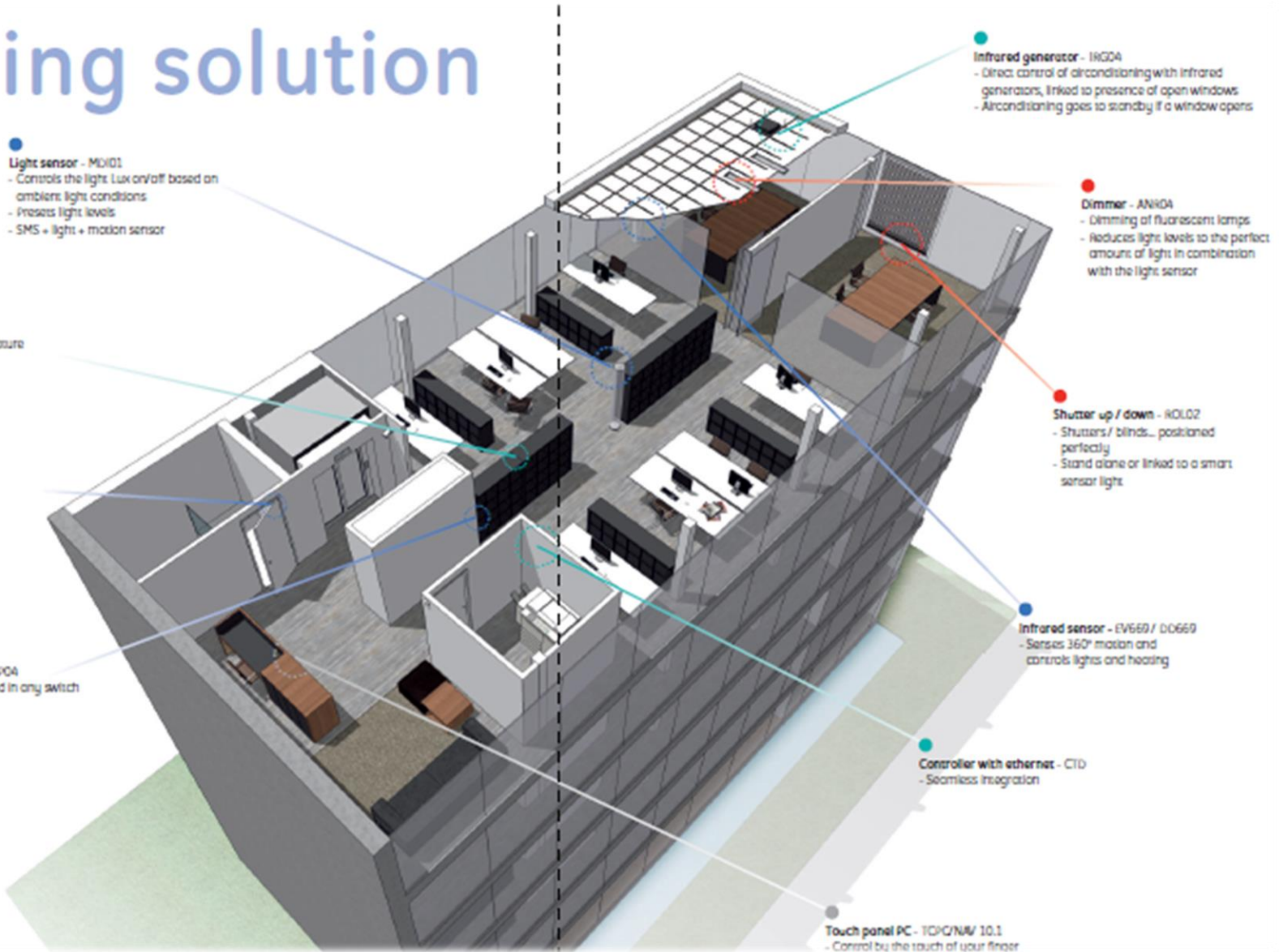
Performance and functional  
conformity measurements

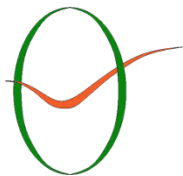
Training of operating  
personnel

Commissioning reports



## Building solution

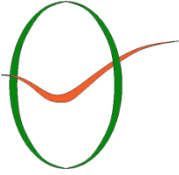




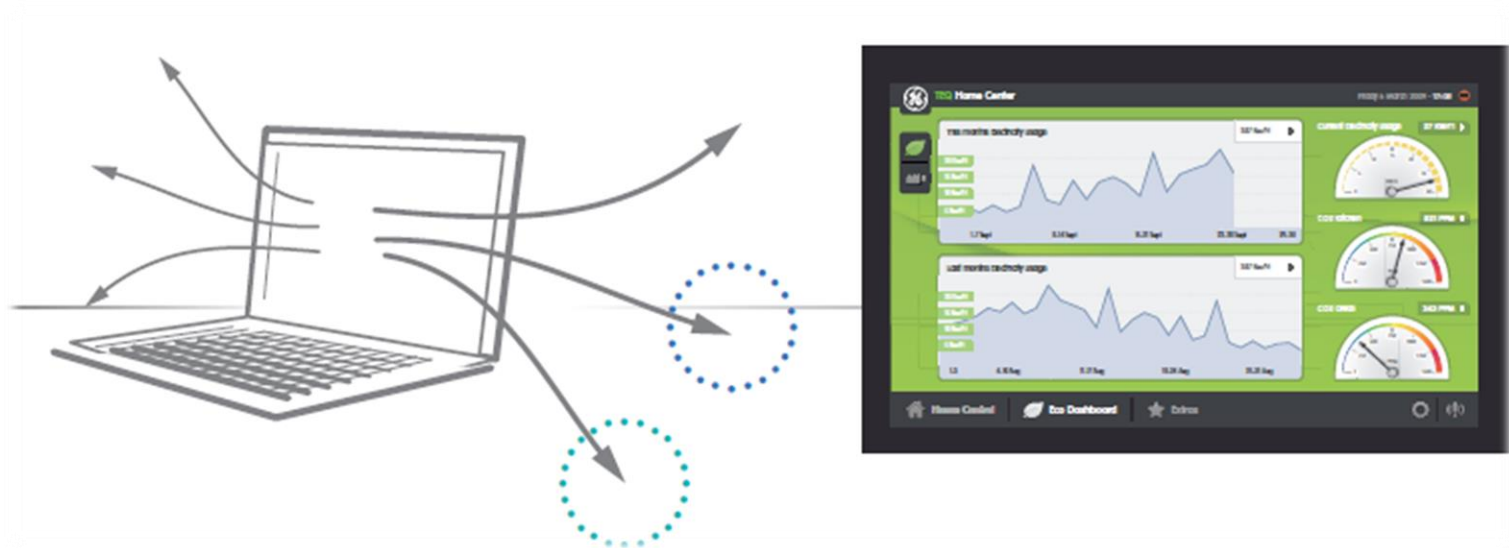
# HOTEL, HOME AUTOMATION

## Home solution

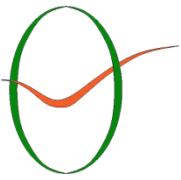




- **Home and Building Automation**
  - Lighting Control System



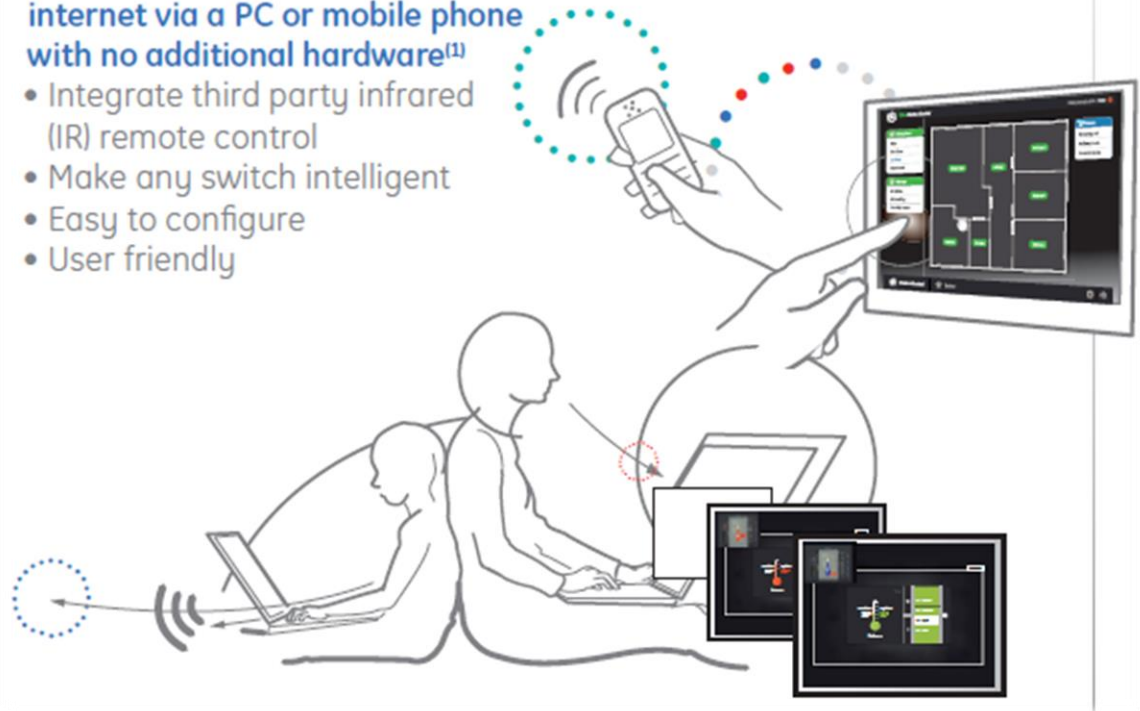




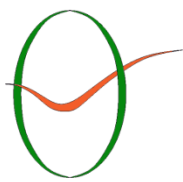
## Flexibility

Visualize and control through the internet via a PC or mobile phone with no additional hardware<sup>(1)</sup>

- Integrate third party infrared (IR) remote control
- Make any switch intelligent
- Easy to configure
- User friendly



- **Home and Building Automation**
  - Lighting Control System



# GLOBAL KEY PARTNERS

## High Tech R&D

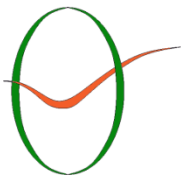


WORLDWIDE PARTNER



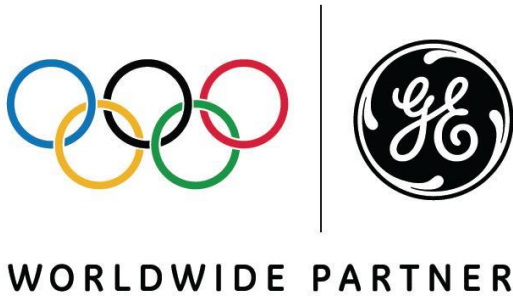
工業技術研究院

Industrial Technology  
Research Institute

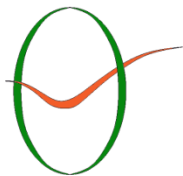


# GLOBAL KEY PARTNERS

Energy (Power, Solar etc...)

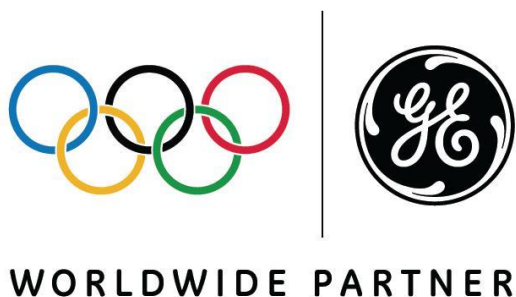


**ALSTOM**



# GLOBAL KEY PARTNERS

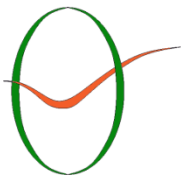
## Lighting Solutions



**PHILIPS**  
Lighting







# GLOBAL KEY PARTNERS

## Smart City



**GE**

**Predix**



**ptc**

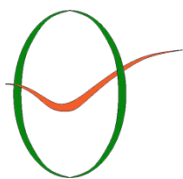


**Microsoft**



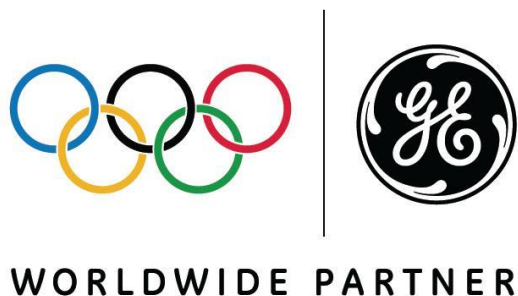
**FOXCONN**  
鴻海科技集團

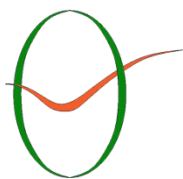




# GLOBAL KEY PARTNERS

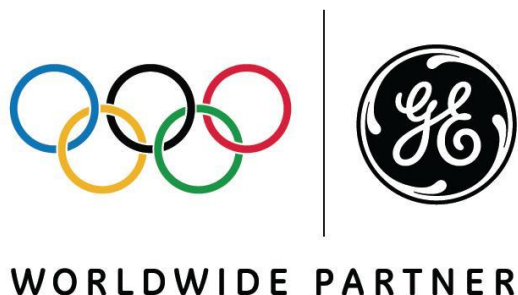
## Big Data and Analytics

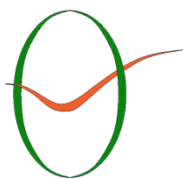




# GLOBAL KEY PARTNERS

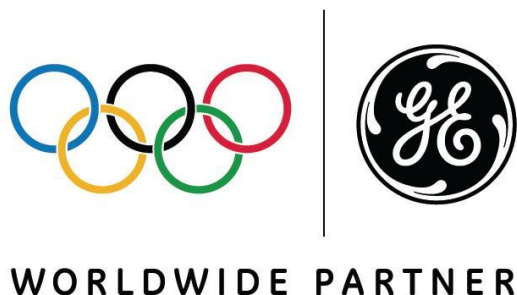
## IoT – Internet of Things



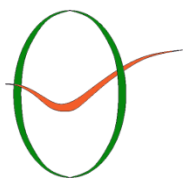


# GLOBAL KEY PARTNERS

## Machine Learning





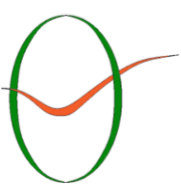


# GLOBAL KEY PARTNERS

## 3<sup>rd</sup> Inspection and Test



工業技術研究院  
Industrial Technology  
Research Institute



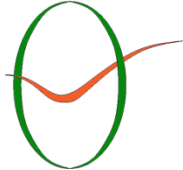
# CORE BUSINESS



POWER PLANT  
POWER SUBSTATION

GE provides the control and automation that utilities need to build a smarter more reliable power grid.





# GLOBAL KEY ACCOUNTS (ENERGY, POWER UTILITY AND INFRASTRUCTURE)



WORLDWIDE PARTNER



Macau Electric

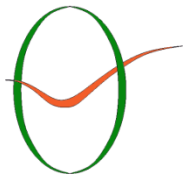


Hong Kong-CLP Power



YUDEAN

China 粵電-珠海電廠



# GLOBAL KEY ACCOUNTS (ENERGY, POWER UTILITY AND INFRASTRUCTURE)



Malaysia National Energy



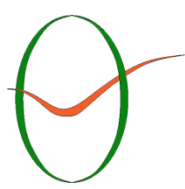
Taiwan Power



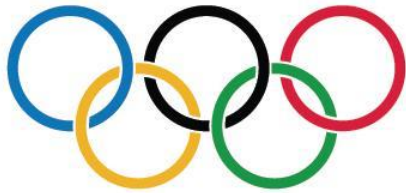
Philippines National Power







# GLOBAL KEY ACCOUNTS (OIL & GAS)

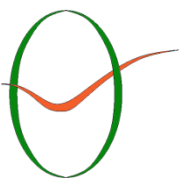


WORLDWIDE PARTNER



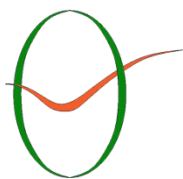
**Mobil**





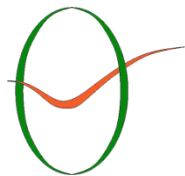
# GLOBAL KEY ACCOUNTS (HOTEL, RETAIL, BANK)





# GLOBAL KEY ACCOUNTS (DEVELOPER, HOTEL & RESORT)





# GLOBAL KEY ACCOUNTS (INDUSTRIAL AND INFRASTRUCTURE)

The Mobil logo features the word "Mobil" in a bold, sans-serif font. The "M" and "bil" are blue, while the "o" is red.

美孚  
USA

The Panasonic logo features the word "Panasonic" in a bold, blue, sans-serif font.

日本-松下集團  
Japan

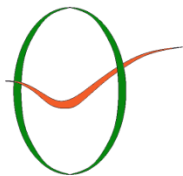


印尼-Standard Pen  
Indonesia



台灣-復盛集團  
Fuseng Group  
Taiwan





# GLOBAL KEY ACCOUNTS (GOVERNMENT, UNIVERSITY)



澳門民政總署

IACM - Civic and Municipal Affairs Bureau, Macau

澳門土地工務運輸局

DSSOPT- Land services, Public Works and Transport Bureau of Macau



澳門建設發展辦公室

GDI - Office for the development of infrastructure, Macau

澳門交通事務局

DSAT - Services for the affairs of traffic Bureau, Macau

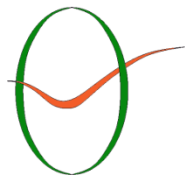


澳門教育暨青年局

DSEJ - Education and Youth Services Bureau, Macau

澳門旅遊局

DST - Tourism services Bureau, Macau



# GLOBAL KEY ACCOUNTS (TRANSPORTATION)

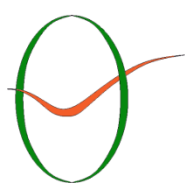


澳門國際機場  
Macau International Airport



香港-港鐵  
Hong Kong-Metro





# GLOBAL KEY ACCOUNTS (EPC)



澳門-中國建築  
China Construction



中国交通建设  
CHINA COMMUNICATIONS CONSTRUCTION  
China Communications  
Construction



中国铁建  
中國鐵建  
China Railway Construction



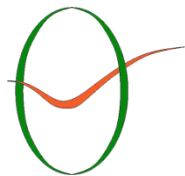
廣東建工  
Guangdong Construction  
Engineering Group Co., Ltd  
China



廣東省工業設備安裝公司  
Guangdong Industrial  
Equipment Inst. Corp.  
China



French Corporation



# GLOBAL KEY ACCOUNTS (EPC)



台灣-中鼎工程  
CTCI Engineering  
Taiwan



台灣-鼎台營造  
TingTai Construction  
Taiwan

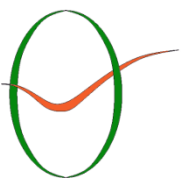


澳門-豪進建築  
Hou Chun Construction  
Macau



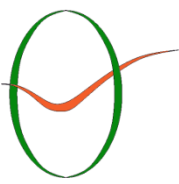
香港-高雅  
Krueger Engineering  
Hong Kong





# BUSINESS CONCEPT

- **Intelligence Makes the Dream Come True**
- **Efficiency | Quality | Service**
- **Sincerity | Commitment | Success**



# COMPETITION/ADVANTAGE

## Customer support and service

Customer satisfaction and recognition is our eternal pursuit!

### ■ *GE Global technical support*

- YATRON is the Core Business partner of GE Energy in Macau, HK, Taiwan, China and Asia

### ■ *Service hotline*

- 24/7 hrs hotline and within 2 hrs respond

### ■ *Emergency service(Pay)*

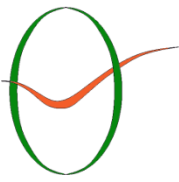
- 24/7 hours Emergency On site service

### ■ *On site service(Free)*

- According to customer's requirement to provide the site service

### ■ *Technical update*

- Update the newest and leading Products & technology of Energy, Power distribution, Industrial and Building Automation



# AWARD | HONG KONG



《鏡報》月刊主辦

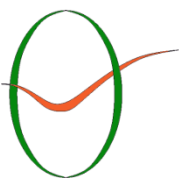
## 傑出企業社會責任獎

CSR (Corporate Social Responsibility) by MIRROR POST

Chief Executive of Hong Kong, CY Leung

27<sup>th</sup> March, 2015 Year





# AWARD | HONG KONG

**積極參與企業社會責任獎評選活動，獲「企業社會責任大使」稱號**  
**Participating in Corporate Social Responsibility Award (CSR)**  
**Selection Activities, Became One of the CSR Ambassador**

日騰是一家以能源管理和建設可持續發展為發展目標的企業。社會的發展與企業的發展息息相關。社會發展得好，為企業提供良好經濟的環境。企業發展得好了，力所能及地回饋社會，創造更好的經濟環境。如此良性循環。日騰能源集團就是在這個理念經營下才有今天的成績。

於2014年11月24日，日騰獲選「企業社會責任大使」稱號。

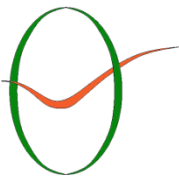


YATRON is an enterprises specializing on energy management and sustainably development as goals. The development of the society and the enterprise is closely related to each other. Provide a good economic environment for enterprises, so that enterprises development better; Serving society the best, Society will create a better economic environment for enterprises. This is such a virtuous cycle. YATRON energy group knows this business philosophy and practice it personally. Thus, we get the achievement today.

On 24th Nov 2014, YATRON was awarded "Corporate Social Responsibility Ambassador" title.







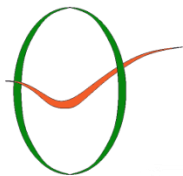
# AWARD | MACAU



**YATRON Energy Group**  
**BUSINESS AWARDS OF MACAU**  
Environmental Performance  
**26<sup>th</sup> November, 2015 Year**



[awardsmacau.com](http://awardsmacau.com)



# RECOMMENDATION



Macau Electric

From: Companhia de Electricidade de Macau - CEM, S.A.

To: Wynn Resorts (Macau) S.A.  
Rua Cidade de Sintra  
NAPE, Macau

Attention: Ms. Kimberly Tan, Director of Purchasing  
Email: Kimberly.Tan@wynnmacau.com  
Tel: (853) 8986 5401

Subject: Trade Reference Check

This is to certify that the service of YATRON Engineering Co., Ltd. has been exceptional.  
We would have no hesitation in recommending them as a supplier to you.

From: Four Seasons Hotel Macao, Cotai Strip®

To: Wynn Resorts (Macau) S.A.  
Rua Cidade de Sintra  
NAPE, Macau

Attention: Ms. Kimberly Tan, Director of Purchasing  
Email: Kimberly.Tan@wynnmacau.com  
Tel: (853) 8986 5401

Authorized Signatory:

(Cheong Chi Fai)

Designation of the signatory: Manager/Procurement and Logistics Department.

Date: 02<sup>nd</sup> Jan, 2014

Tel: +853 28339933

Company Chop:

Email address: ccf.cheung@cem-macau.com



Subject: Trade Reference Check

This is to certify that the service of YATRON Engineering Co., Ltd. has been exceptional.  
We would have no hesitation in recommending them as a supplier to you.

Authorized Signatory:

(Kennix Pak)

Designation of the signatory: Engineering Coordinator

Date: 02<sup>nd</sup> Jan, 2014

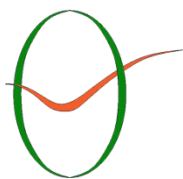
Tel: +853 81128506

Company Chop:

Email address: Kennix.Pak@fourseasons.com



**FOUR SEASONS**  
*Hotels and Resorts*



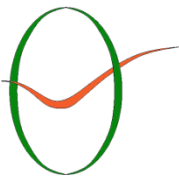
## INTERVIEW | MACAU, HONG KONG

# Chairman and CEO - Kenneth Chan Interviewed by Macau Asia Satellite Television

On 2014/10/28, Chairman and CEO Kenneth Chan was interviewed by MASTV and attended "Moved Macau" TV programs. YATRON Energy Group CEO Mr. Kenneth Chan was such a practical person, with their diligence and wisdom to achieve his dreams. After he finished his University in Taiwan, he return Macau for hometown's construction as a special zone identity of the owner with other community. Contributing for the motherland's prosperity and stability and set a good example for the majority of adolescents in Macau.







BUSINESS



## At light speed

A local energy management and lighting solutions company will roll out a second factory after six successful years of operation

BY ALEXANDRA LAGES

**A**fter just six years, Yatron Energy Group, a local company providing energy management services and lighting solutions, is about to open a new factory in mainland China. It will triple its current manufacturing unit capacity as the business expands from Greater China to Southeast Asia.

In an exclusive interview, Kenneth Chan Chio Hong, chairman and chief executive officer of the firm, tells Macau Business how he started a business with MOP10,000 (US\$1,250) and grew it into a US\$15 million-revenue conglomerate.

Yatron is a diversified organisation providing energy management and lightning solutions to utilities and energy-intensive industries, including commercial, healthcare, data centres and transportation. The company uses General Elec-

tric Company (GE) technology.

GE is an American multinational technology and financial services company, with products and services ranging from aircraft engines, power generation, water processing, and household appliances to medical imaging, business and consumer financing and industrial products. It serves customers in more than 100 countries.

Yatron is GE's sole authorised switchgear panel builder and distributor here, opening its factory in Zhuhai in 2010.

### Targeting millions

It has branches in Macau, Hong Kong, Taiwan and, more recently in Malaysia, which is overseen by Mr. Chan's French partner, who is in charge of tapping the Southeast Asian market.

Let there be a new light  
[www.macaubusiness.com](http://www.macaubusiness.com)

Newsdesk | 18/12/2014 | in [BUSINESS](#)

**A local energy management and lighting solutions company will roll out a second factory after six successful years of operation**

After just six years, Yatron Energy Group, a local company providing energy management services and lighting solutions, is about to open a new factory in mainland China. It will triple its current manufacturing unit capacity as the business expands from Greater China to Southeast Asia.

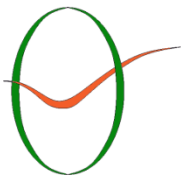
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(Page 1/2)

上圖：日騰能源集團CEO陳超雄  
接受《澳門商業雜誌Macau Business》採訪





Let there be a new light  
[www.macaubusiness.com](http://www.macaubusiness.com)

Newsdesk | 18/12/2014 | in [BUSINESS](#)

## A local energy management and lighting solutions company will roll out a second factory after six successful years of operation

"In November, we will move into a new plant and our capacity will triple. I had to increase our manufacturing unit's capacity in order to meet our clients' demands. With our business setting foot in Southeast Asia, the market is very big," Mr. Chan says, adding that "our aim for 2015 is for revenue to be around US\$25 million. This year, the target should be US\$15 million," the local businessman says.

The company's main clients are located in Macau, followed by Hong Kong and Taiwan. It also has clients in Southeast Asia now. "In Macau, our major client two years ago was the government. The government's requirements are very high and we are making high-end products and solutions. Then, fortunately, we started doing casino projects two years ago, like Sands China Ltd, Galaxy Entertainment Group and Melco Crown Entertainment Ltd," he says.

The full story can be read in this month's issue of Macau Business magazine, available at newsstands or online at [www.magzter.com](http://www.magzter.com)

(Page 2/2)



Mr Chan is expecting his company to rake in around US\$15 million in revenues this year; as of October, Yatron had made almost US\$13 million

"Yatron and GE are focused on energy management, which is one of the tools for sustainability. When the government or a client would like to bet on sustainability, we have to do energy management. I think the local market is a very big market for energy management," he says.

He adds that the company has been discussing with some existing casino projects how they can improve energy management systems; and also private and government schools, and other government departments. He says that most end-users are still in the "considering" stage.

"We're talking to some chairmen and top managers of companies and they would like to try energy management. We're still providing consultancy services," he says.

In what concerns environmental and energy conservation rules and laws, Macau also has a long way to go, he says. "In Macau, people are more relaxed. It will take three to five years for society to develop some mentality in this regard. In Taiwan and Southeast Asia, they accept our ideas.

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"We [aim for] our 2015 revenue to be around US\$25 million. This year, the target should be US\$15 million," the local businessman says.

The firm's major manufacturing products are switchgear and automatic components for energy management and lightning fixtures, and it has now started manufacturing air compressors for industrial use.

Yatron provides end-to-end products and service solutions that seek to ensure the reliability and protection of electrical infrastructure, from power plant, substations, to a facility's critical equipment, and all the power technology in-between. "The purpose of these systems is to increase the efficiency and reliability of operations and become more competitive," he says.

### Casino world

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"In Macau, our major client two years ago was the government. The government's requirements are very high and we are making high-end products and solutions. Then, fortunately, we started doing casino projects two years ago, like Sands China Ltd, Galaxy Entertainment Group and Melco Crown Entertainment Ltd," he says.

Yatron is providing air conditioning and ventilation systems for Melco Crown's new signature project in Cotai, Studio City, and energy management systems and low voltage switchgear for Sands Cotai Central.

"Two years ago, most of the casino business was controlled by Hong Kong consultants and end-users. We didn't have any connection there. That's why we established the Hong Kong branch and got Hong Kong clients step by step," he says.

When asked about his recipe for success, Mr. Chan laughs out loud. "We're growing now. I cannot say we are successful yet. We're studying the market. I established Yatron with MOP10,000. When I rented the office we didn't have any money [he laughs]. Up to now, we're focused on quality service.

"We have no secrets; just honesty, quality and service".

Energy management includes planning and operation of energy-related production and consumption units. It embraces resource conservation, climate protection and cost savings, while users have permanent access to the energy they need.

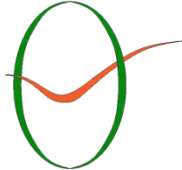
### Virgin lands

Mr. Chan believes that Macau is still at the beginning stage of environmental control and sustainability.

"For the last 10 years, economic growth has been very high and the government is arranging some departments in this area. The Environmental Protection Bureau was established only a few years ago.

上圖：日騰能源集團CEO陳超雄

接受《澳門商業雜誌Macau Business》採訪



# INTERVIEW | MACAU, HONG KONG

## Chairman and CEO interview by Mirror Post, Hong Kong | Nov, 2014



### 尋找GE的第二故鄉

——訪日騰能源集團董事長陳超雄

「智慧成就夢想」。日騰能源集團董事長陳超雄這樣說，日騰集團憑藉美國通用電氣(General Electric-GE)智慧化系統等的技術力量、管理思維、企業文化，把本地化企業帶起來，成就中國人偉大的夢想。

◎文/天樂

中國在過去20年的時間裡，基礎設施方面投資力度巨大，當中為能源管理的發展提供了必備的條件。今天，由年輕工程師陳超雄成立的日騰能源集團將如何把握亞洲這個能源市場的管理及發展機遇，使集團成為港澳能源管理企業的標桿？



▲日騰能源集團董事長陳超雄稱，日騰作為能源管理者，GE在中國的合作夥伴，將抓緊中國能源管理行業的機遇。

與GE一起把企業達致本地化

談起能源管理這一課題，日騰能源集團董事長陳超雄這樣說，自愛迪生發明電燈泡以及GE面世以來，人類開始使用電力，帶來科技的進步和便利，但同時也造成巨大的能源消耗，一直以來人們亦忽略能源管理這一概念。陳超雄稱，直至近5年來，能源管理才逐漸成為世界各地的重要議題，能源管理涉及天然氣、石油、頁岩氣、電力、煤炭等類別。能源管理是一種管理手法，但其操作模式不只是以人力去管理，而是以自動化系統、電氣組件、軟件以及人的經驗去作綜合管理。

成立於2006年的澳門日騰能源集團至今已發展成為一個多樣性組織企業，包括能源管理、能源全方位解決方案等，從事能源、數據中心、水處理、交通乃至醫療系統的業務。在業務進入快車道上，陳超雄如何帶領集團在促進能源發展的前提下擔當着一個重要的角色？陳超雄這樣回答，集團一直與美國通用電氣(GE)合作，GE目前主要為全球提供最新技術，例如電氣軟件、監察系統等進行生產整合。它雖然是全球最領先的設備和系統生產商，但它仍需要在本地球場擁有一個作系統整合及具生產能力的企業，與他們一起把企業達致本

地化，打造堅實的合作夥伴關係以實現共同發展和達致雙贏，日騰能源集團便是GE在大中華區其中一個主要的授權合作夥伴。也正因為這概念，GE可以130多年來屹立不倒，因為它深知再大的企業，當處在不同市場時，都需要適應當地的文化和溝通方式。

成就中國人偉大的夢想

「智慧成就夢想」是日騰的宗旨。陳超雄指出，集團為GE的授權生產商，由建廠、規劃到生產都得到GE很大的支持。日騰集團憑藉GE智慧化系統等的技術力量、管理思維、企業文化，把本地化企業帶起來，成就中國人偉大的夢想。

能源管理是一個資金密集型、人才技術密集型的行業，日騰在亞洲區域的戰略部署又是如何？陳超雄表示，集團除了一直在香港、澳門等地發展外，其亞洲重心將是大中華區，當然東南亞這全球市場的焦點亦不容

忽視，集團最近已在馬來西亞成立東南亞地區總部。集團將與GE和GE最新收購的法國阿爾斯通，共同發展亞洲市場。

為客戶提供全方位能源管理服務

國家發展能源邁起初步階段，這需要吸引世界專才和國際級企業來扶助當地企業及政府部門來發展能源企業事業。GE公司大中華區總裁兼首席執行官夏智誠(Mark Hutchinson)曾稱中國將成為GE第二故鄉，故每年會作大力度的投資項目，例如：在中國培訓管理人才、企業整合，以達致本地化；與此同時，GE履行企業社會責任，將中國的人才交流、技術增長帶動起來。

日騰作為能源管理者，GE在中國的合作夥伴，將抓緊中國能源管理行業的機遇。陳超雄稱，現在建造智能化大廈和工廠，一般企業成本會增加

3%，但3至5年內可回本。日騰為客戶提供全方位能源管理支援技術服務，集團會先與客戶作簡單的溝通，了解他們有什麼問題，怎可達致可持續發展。之後會給予顧客簡單的建議書，為對方提供能源顧問服務，評估在能源方面有什麼可改進空間。他續說，這個社會若不抓能源管理，會衍生很多問題，例如：空氣污染、員工質素下降、效能降低，這或令企業帶來更大的損失。所以，一系列能源管理措施不僅可改善企業自身，也可提升員工質素乃至實現社會的可持續發展。

把握粵港澳三地的合作契機

隨著港珠澳大橋的即將興建落成和橫琴新區開發項目的進一步落實，將深化粵港澳三地的合作。日騰又如何使澳門在能源管理的發展上得到提升，把握粵港澳三地的契機？陳超雄表示，澳門雖是個小城市，但集團立志朝著成為澳門輸配電及空調產品領導者角色邁進。他創立的日騰已有8年的時間，在澳門擔當着輸配電的重要角色。他認為，空調控制系統還有待改進空間，現時澳門的大型企業、工廠、酒店都設有樓宇自動化系統，然而，仍只是流於表面，沒有將

能源管理落到實處。他希望集團未來可把那些現有已實行樓宇自動化的企業、大樓再作改善，未有的則會幫他們建立樓宇自動化和能源管理系統。

陳超雄特別指出，日騰將借助橫琴、深圳前海、

泛珠三角9+2區域等周邊地區進行發展。現在集團先在橫琴、海南等地進行洽談發展項目，扶助當地企業發展能源管理，踏出第一步。他表示，要與世界接軌並不容易，他感謝GE給予他們平台和學習機會，特別是以其專業技術、財務等方面為集團作出援助，讓他們逐漸地成長壯大。

近年中國經濟正在急速增長，它有望成為全球最大經濟體。日騰將繼續紮根自己家鄉港澳，並密切配合GE在中國及亞太區的發展，將能源管理做深做大。我們有理由相信在像日騰這樣默默耕耘企業的努力下，他朝中國可成為GE的第二故鄉。

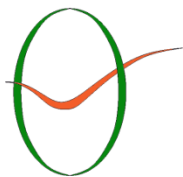


▲日騰能源集團工廠



▲日騰能源集團至今已發展成為一個多樣性組織企業，包括能源管理、能源全方位解決方案等，從事能源、數據中心、水處理、交通乃至醫療系統的業務。





# PRESS CONFERENCE | MACAU, HONG KONG

2014/08/19

## YATRON Energy Group Business Development in Asia Press Conference

2014/08/19 YATRON Energy Group Business Development in Asia Press Conference was held in Sands City Center Sheraton Hotel. Taking this opportunity for more Macau and Asian company have a in-depth understanding of YATRON business and products. In hope of provide assistance from different aspects so that to promote the enterprises to establish a set of efficient energy management systems and solutions.

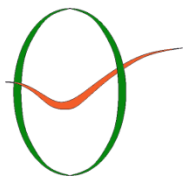
The conference invited the Chinese Liaison Office Ministry of economic management of Enterprise Department Mr. Yan, senior manager of Macao productivity and technology transfer center director office Mr. Zeng, General Manager of General Electric (GE) Group of Energy Industry system in North Asia and Greater China Mr. Liu Fang and representative Li Qing, Macao Electric Ltd power system Dispatching Department manager Mr. He and Purchasing Department manager Mr. Zhang, Macao the Chinese General Chamber of Commerce, Executive Director Mr. Chen, Vice President of the Macao small and Medium Enterprises Association General Chamber of Commerce Mr. Ye and over 150 overseas guests and business political representatives attended the activities, lively atmosphere.



Chairman and CEO of YATRON Energy Group  
Interview by TDM Macau



Press Conference



# PRESS CONFERENCE | MACAU, HONG KONG

YATRON Energy Group Chairman and CEO Mr. Kenneth Chan said, with the Hong Kong Zhuhai Macao Bridge Construction and Hengqin new area development project opportunity, make the development and demand of energy management, wisdom city building get the attention and promotion focus. YATRON was founded in 2006, now we are focusing on service in Macau. With the support of all parties, the group's business gradually extended to other regions, the realization of Macau enterprises to go out of the target. Provide solutions for customers. Then, respectively YATRON energy group held agreement signing ceremony with Macao Investment Development Company Limited cooperation for "Studio City Macau", "Venetian Resort 110kV substation" projects.

In this business development conference, hope that with the help of our Asia layout, and General Electric (GE) technology, financial support, to help enterprises to go out. There are a number of projects in Hengqin development, participate in some government infrastructure, commercial buildings, including the LED lighting technology, motor control.

Technical promotion will be actively facing to relevant departments in future. 8 years since YATRON was found, we kept training and had hired a number of local engineers, they are using GE technology and the new technology for the working.

GE Energy Group Industrial System in North Asia and greater China GM Mr. Liu Fang said YATRON energy group is a long-term partner in China, the future will support YATRON in the technology, finance and other aspects, hoped YATRON will develop in scale, or even go public.

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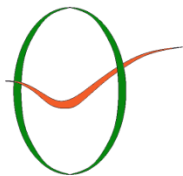
Left to Right:  
Chairman and CEO (Kenneth Chan) | Managing Director of Asia (Christophe Fliou) YATRON Energy Group



James Liu | General Manager, North Asia and Greater China  
GE Energy, Industrial Solutions

Ver.: 2023.10.25





# PRESS CONFERENCE | MACAU, HONG KONG



陳超雄 Kenneth Chan  
Chairman and CEO  
YATRON Energy Group



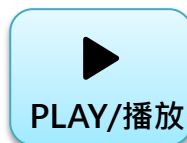
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柳方 James Liu  
General Manager  
North Asia and Greater China  
GE Energy, Industrial Solutions



李克賢 Christophe Fliou  
Managing Director, Asia  
YATRON Energy Group



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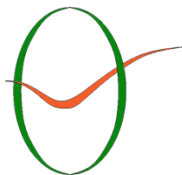
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Signing ceremony  
GE | Investment Institutions | YATRON  
Energy Group

## Business Development in Asia Press Conference

(第 3/4 頁)  
Ver.: 2023.10.25



Macao Daily

# PRESS CONFERENCE | MACAU, HONG KONG

2014/08/19

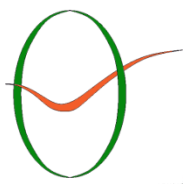


2014年08月20日: 澳門日報 Macao Daily



2014年09月: 香港鏡報 Mirror Post

(第4/4頁)  
Ver.: 2023.10.25



# MULTIMEDIA | EXHIBITION



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Macau Asia Satellite Television  
Macau



GUANGZHOU | CHINA



Mirror Post | Hong Kong



Macau

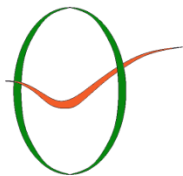
The Technology Showcase for the  
**Building, Electrical Engineering  
and Security Industries**

Hong Kong  
Convention and  
Exhibition Centre

Featuring







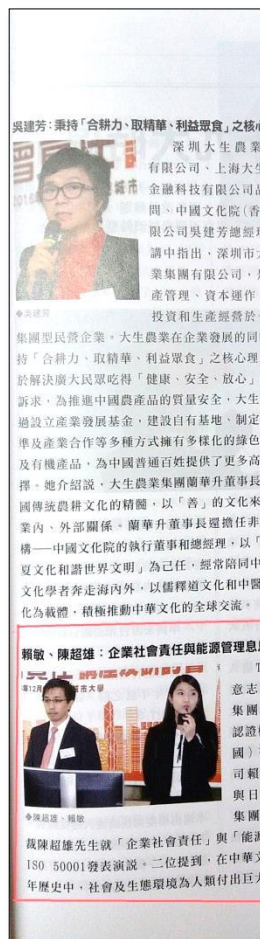
# MEDIA | SEMINAR | MACAU, HONG KONG

2017/01

CSR seminar

2017.01

Hong Kong Mirror – City University of Hong Kong



Energy Management System (EnMS)

能源管理系統-軟件及硬件一站式方案



- 節省能測電、熱、氣、水
- 環境及能源管理、監察和控制
- 系統和效率持續改善
- 高遠 50%
- 投資回報 ROI, 1~3 年
- 十年營運, 0 故障紀錄



- 可持續發展
- 室內環境質量
- 企業社會責任 CSR



ISO 9001, ISO 14001, ISO 50001 的一站式服務  
環境及能源管理課程、認證、取樣設備、分析、持續改善



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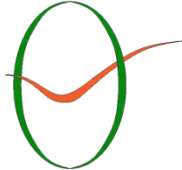


CSR seminar  
Hong Kong Mirror – City University of Hong Kong

2016年12月06日, 2017年1月號

## The 6th CSR Seminar and Seminar YATRON - CEO Kenneth Chan / TUV SUD – LAI MIN





特稿

### 為何要用最好的能源管理系統

——ISO 50001能源管理系統概論

◎文/本刊記者

西方工業革命使人類工業文明前進了一大步，能源效益提高了很多。伴隨着工業革命的開展，也給生態環境和城市發展帶來了破壞性影響。在二十一世紀的今天，我們應重新思考要否擁抱生态文明？我們與生俱來肩負着責任，不論是對家庭、朋友、社會、環境。ISO 50001令我們思考到我們要繼續造成能源消耗，還是應有效地管理能源？本刊將推出系列關於善用能源管理和對如何履行保護環境責任的文章，以饗讀者。

聯合國因應氣候變遷，多年來透過各國政府、民間和標準化組織的持續努力，制定了各種國際標準和協議(簡述如下)。希望各國和地區，在享受經濟成果之餘，對自己國家和國民以及全球生態平衡作出應有的回饋和責任。

■全球性協議：《京都協議書》，1997年12月在日本京都共有183個國家通過了該條約(超過全球排放量的61%)，條約於2005年2月16日開始強制生效。《巴黎協議書》取代將於2020年到期的《京都協議書》。2015年在巴黎，工業革命啟動近250年後，全球各國達成減少溫室氣體(二氧化碳為主)排放的協定，展開挽救人類免於氣候變遷帶來毀滅的第一步，也等於宣告了工業革命後即賴石化燃料帶來成長的時代終結，低碳與永續的時代正式展開。《巴黎協議書》目標是在二十一世紀後半，將全球氣溫上升限制在與工業革命前相比上升2°C以下，甚至希望能達到限制在1.5°C。《巴黎協議書》亦已於2016年11月4日正式生效啟動，並通過中國簽定，延伸至香港和澳門特區。

■國際標準化組織ISO及歐盟關於《可持續發展》之相關標準：ISO 26000社會責任指引、ISO

14001環境管理系統、ISO 50001 / EN 16001能源管理系統。

#### ■國際標準化組織ISO及歐盟標準詳細介紹

■ISO 26000社會責任指引簡稱(SR)：①SR中7大要素的《環境》要素着重於能源管理系統、環境管理系統、綠色產品管理系統、溫室氣體管理系統。②近年全球暖化造成氣候變遷的問題日趨嚴重，企業須承擔的企業社會責任亦隨之增加。目前國際間由投信機構發起的「碳揭露計劃」，以作為投資決策之考量因素。歐盟的整合性產品環保政策，已發展一系列與市場機制相結合的環保指令，只有符合相關規範之產品方能進入歐盟市場。

■ISO 14001環境管理系統：①ISO從1993年開始制定的一系列環境管理國際標準。②環境污染與公害事件的產生使人們從治理污染的過程中逐步認識到，要有有效的保護環境，人類社會必須對自身的經濟發展行為加強管理。

■ISO 50001/EN 16001能源管理系統：①人類從發展能源、使用能源、節約能源，現在必須提高其層次至管理能源。②EN 16001：歐盟於2009年7月發布，期望合理地管理能源。③ISO 50001：由ISO於2011年6月頒布，將能源效率納入管理辦法框架中；



更好地利用現有能源消耗資產制定標準、測量、記錄和報告能源強度，改進及其預計的對溫室氣體排放的影響；能源資料的透明管理和交流；能源管理的最佳做法和良好的能源管理行為；評估並確定新能效技術的實施和其優先順序；通過供應鏈促進能源效率的框架和溫室氣體排放計劃有關的能源管理改進。④ISO 50001/EN 16001包括：能源審查、能源基準、能源績效指標(EnPIs)、能源目標與能源指標等，最終達到管理能源。⑤ISO 50001遵循PDCA(Plan計劃-Do執行-Check檢查-Action行動)的原則，與ISO 9001品質管理和ISO 14001環境管理有最大的相容性。⑥在今天，有效能源管理的議題對任何企業的成功，比以往任何時候更具有重要性。除了提升能源效率外，能源管理系統可降低成本並減少溫室氣體排放和提升室內環境質量，讓員工和企業組織更具有國際競爭優勢。⑦ISO 50001適用於任何企業組織，不論其規模、所屬的產業部門或地理位置。如果企業組織屬於能源密集的產業，或面臨溫室氣體排放立法的產業，這項標準尤其重要。

⑧ISO 50001 能源管理的優點：  
(i) 降低成本：透過架構化的方法以確認、監測及管理能源消耗，降低能源支出。  
(ii) 改善企業績效：找出最高能源效率方案，影響員工行為模式以減少能源消耗，進而促進更高的生產力。

(iii) 符合法律法規：達到目前或未來的強制性能源效率目標及/或減少溫室氣體排放的法律要求。

(iv) 減少溫室氣體排放：於現在及未來達成利害關係人的期待/響應企業社會責任之義務。

(v) 整合管理系統：將您的能源管理系統與既有的管理系統(ISO 9001, ISO 14001, ISO 18001等)整合，提高管理效益，使利益倍增。

(vi) 國際調查機構BSI進行全球最大的能源管理調查，結果顯示：①78%資深經理人相信能源管理是重要或非常重要，其中能源管理代表有64%為董事會層級。②為何需要能源管理系統？79%表示成本控制是能源管理的主要原因，35%認為氣候變遷，28%

認為可以提高公司聲譽。

●先進技術YATRON KenerSys和TÜV SÜD

①ISO 50001能源管理認證，使企業組織可利用標準化流程，進行能源管理和程序架構。高效和實用的能源管理系統，需要使用大量傳感器、儀錶等收集大量數據作為系統分析和改善之用。這些資料和數據極其大量和複雜，用傳統方法，使用人力抄寫方式進行數據記錄實在是不可能，只有高效、穩定和智能化的自動化能源管理系統，才能協助用戶持續地作最有效的記錄、分析和改善。

②日德能源之能源管理系統KenerSys以ISO 9001, ISO 14001及ISO 50001為基礎和核心，透過與國際標準和工業巨頭如：GE美國通用電氣、Microsoft微軟、德國TÜV SÜD認證、ITRI台灣工業技術研究院的技術、課程和認證合作，結合《物聯網Internet of Things (IoT)》及《大數據Big Data》技術之應用和分析，長遠與用戶共同對系統持續改善，創造更高附加價值和收益。

③YATRON KenerSys是一套可持續性軟件和硬體解決方案，在現有的自動化和系統中解鎖數據，以及利用大量儀錶和傳感器，使其同時作大數據分析和消除過度使用的程序和設備。並可結合ERP系統和KPI整合使用。

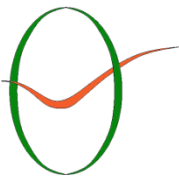
④KenerSys不只是節能系統，更其是一系列的高效能能源系統。

⑤適量減少和控制使用公用設施的投入，提升工作環境質量和員工動力，節省最高達50%的能源消耗，如：電力、鮮風冷氣系統、燃氣、水、壓縮空氣等。☑



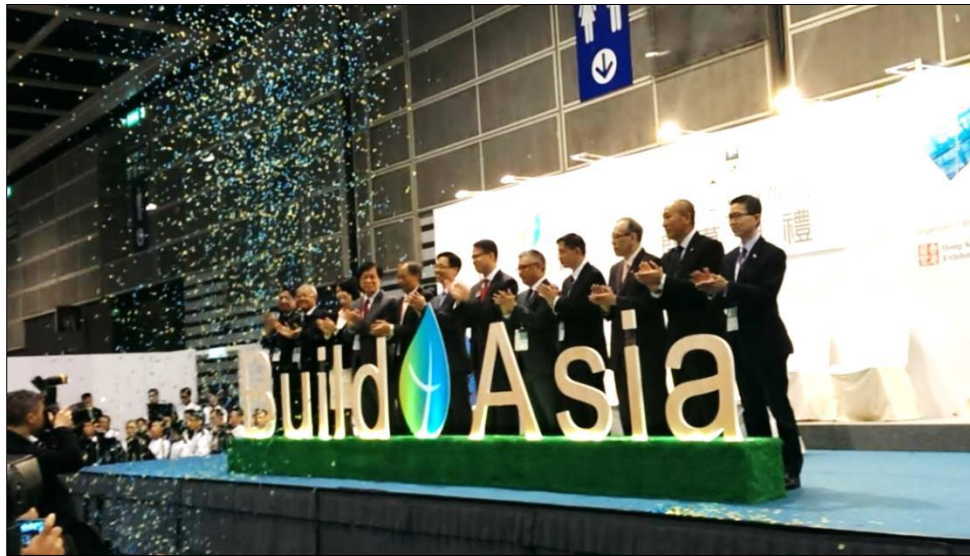
◆《物聯網Internet of Things (IoT)》及《大數據Big Data》記錄、統計、分析和改善



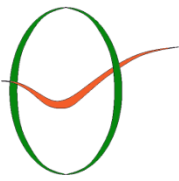


# EXHIBITION | HONG KONG

**YATRON exhibit the Build4Asia 2014 in Hong Kong**



**Build4Asia** is the largest building exhibition in Hong Kong and Macao for building equipment in Asia. 2014/05/07 grand opening at the Hong Kong Convention and Exhibition center. As an exhibitor, YATRON not only shown our high quality products to clients from all over the world, but also got a quite good beginning.



# MEDIA | EXHIBITION | GUANGZHOU

2010/03/08

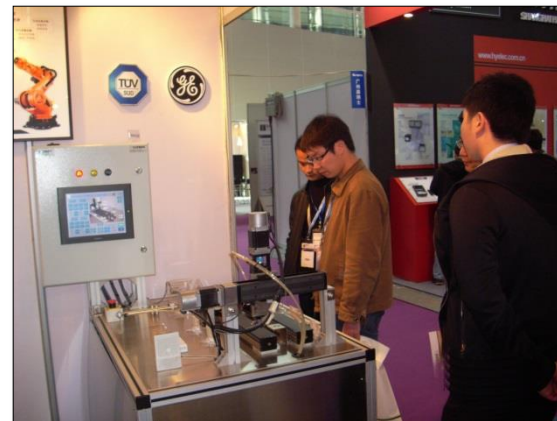
## CHIAF/SIAF 2010 - China (Guangzhou) International Industrial Control Automation and Instrumentation Exhibition

YATRON participated in CHIFA/SIAF 2010 - China Guangzhou International Industrial Automation Technology and Equipment Exhibition (SIAF) from March 8-11, 2010. SIAF exhibition is a perfect combination of SPS, the world's largest industrial automation exhibition, and CHIFA, the largest industrial automation exhibition in South China, in China.

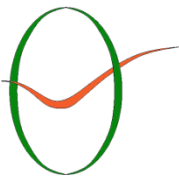
YATRON met a large number of industry partners and customers at the exhibition.



SIAF is the largest Automation exhibition in China.







# MEDIA | EXHIBITION | GUANGZHOU

2009/03/04

## 13th (CHIFA 2009) in Guangzhou

YATRON participated in CHIFA 2009 - The 13th China Guangzhou International Industrial Control Automation and Instrumentation Exhibition from March 4-7, 2009, which was rated as one of the "Top Ten Brand Exhibitions in Guangzhou" by Guangzhou.

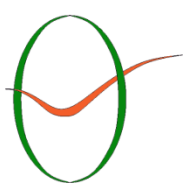
YATRON believes that as an exhibition with excellent brand value, it will provide an ideal business platform for exhibitors and visitors, where information meets and value is realized.



CHIAF is the largest Automation exhibition in China.







# DIRECTORY OF ENTERPRISES THAILAND, MYANMAR

## GE | YATRON Local Present



**2015 - 2016**  
(September Edition)  
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GE Energy  
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GE Lighting

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## YATRON 日騰 ENERGY GROUP

### 能源管理系統

Energy Management System



### CERTIFICATIONS

Complies with  
ISO 9001  
IEC 61308  
IEC 60439, IEC 61439  
GB 7251  
IEC 60181  
BS 6387  
UL94

Certificates  
TUV (Germany)  
TUV (Germany)  
REMA, ASFA,  
CEBEC, ASTA,  
TUV  
CCC (China)  
TUV  
TUV  
SGS

### LOCAL SERVICES

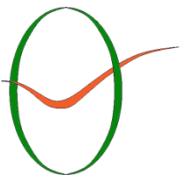
- Local Support
- Local Solutions
- Local Maintenance
- Local Pre-sales Services
- Local After sales Services

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# SERVICE CENTERS

## GREATER CHINA MACAU, HK, TAIWAN AND MAINLAND CHINA

**Macau S.A.R**

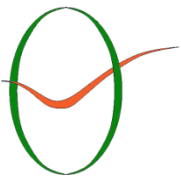
**Hong Kong S.A.R**

**Guangzhou**  
**Zhuhai**  
**Guangdong**

**Beijing**

**Taipei**  
**Kaohsiung, Taichung**  
**Taiwan**

**Haikou**  
**Qiongzong**  
**Hainan**



# SERVICE CENTERS

## ASIA PACIFIC | ASEAN | RCEP

Singapore  
**Singapore**

Kuala Lumpur, Penang  
**Malaysia**

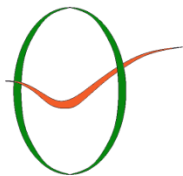
Bangkok  
**Thailand**

Jakarta  
**Indonesia**

Hanoi  
**Vietnam**

Manila  
**Philippines**





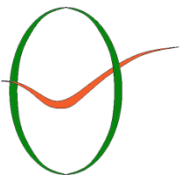
# SERVICE CENTERS

## EUROPE

London  
**United Kingdom**

Berlin, Munich  
**Germany**

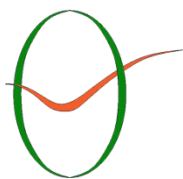
Paris  
**France**



# SERVICE CENTERS

## AFRICA

Johannesburg  
Newcastle  
**South Africa**



# CONTACTS



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# YATRON

The  equation

GE people = Unceasing curiosity + relentless drive  
+  $\frac{\text{imagination}}{\text{risk}} \times \text{sweat}^2 \longrightarrow$  Break through ideas

that make  go: "WOW "

"WHAT WE IMAGINE... WE CAN MAKE HAPPEN."

# Q & A?