

# Smart Lighting **Solutions**

Lighting System & Indoor & Outdoor

[www.morstar.com](http://www.morstar.com)

Illuminating the world, creating a  
smart, healthy life.

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# Our Vision - Lighting and Health

Life originates from light, and light has a significant effect on the human body. The ability to effectively create lighting environments that are healthy and energy efficient is one of the most active areas of human sciences.



## Increase Well-Being

Circadian rhythms keep us happy and healthy. Natural light has a significant impact on circadian rhythms because its full-spectrum and dynamic. An effective lighting system designed around natural circadian rhythms helps those in a given environment maintain a normal sleep schedule and feel much happier and healthier.



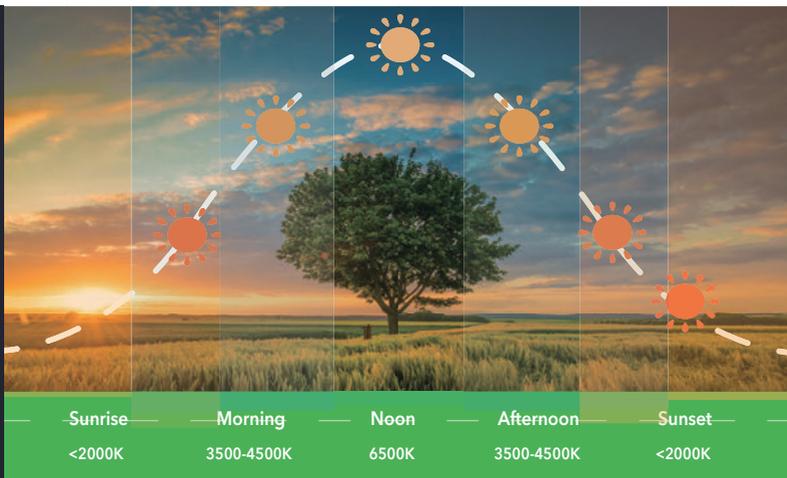
## Improve Productivity

The most appropriate lighting is an indispensable element of creating a comfortable and productive office environment for employees. Studies have shown that smart lighting systems, that closely align with natural circadian rhythms, have demonstrated an increase of productivity by an average of 12%. For that reason, more and more office lighting systems have embraced smart lighting, and in doing so, enabled a more comfortable environment for employees.



## Benefit of Human Health

The full spectrum of lighting achieved with our smart LED technology is very similar to the sun. The Morstar Lighting System can utilize the complete light spectrum, from cold color, through neutral, to warm. This enables our products to follow the rhythm of natural outdoor light for indoor applications.



*"We are passionate about lighting. We want to illuminate the world and create a smart, healthy life."*

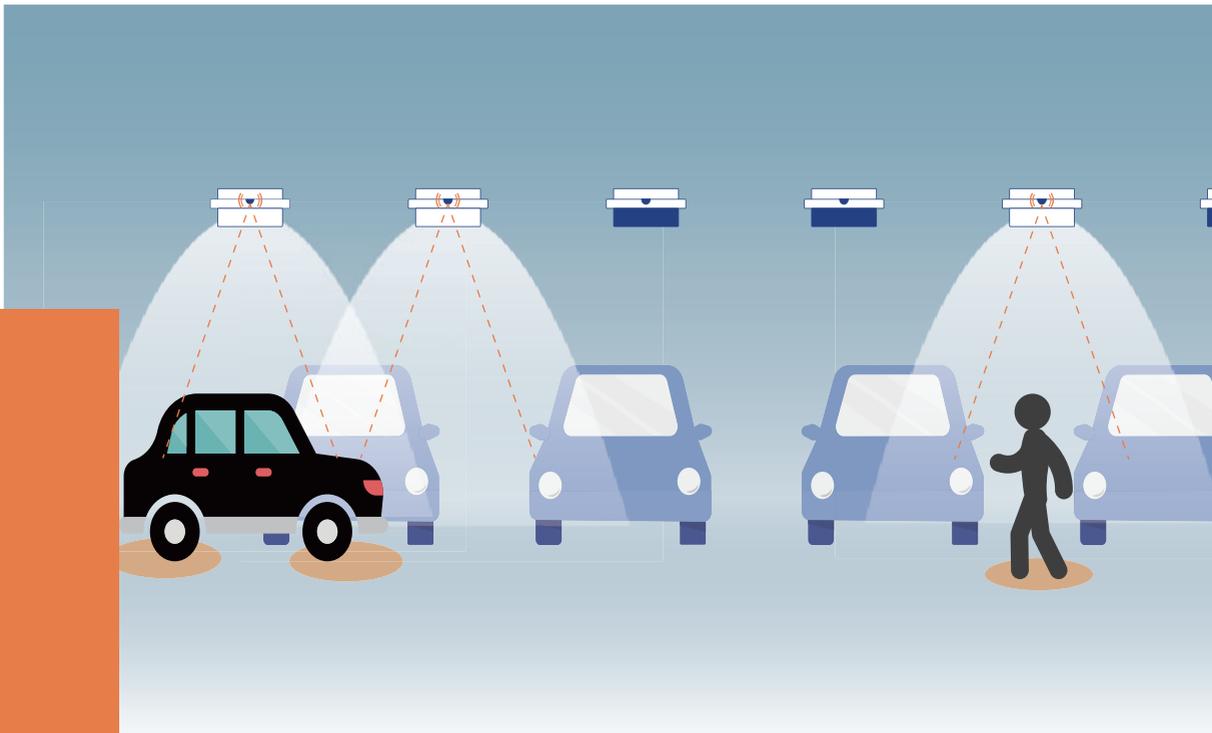
Catherine Su | President

Susanna Su | CEO

# Our Ability - Lighting Design

Richard is the owner of a large parking facility and has a garage and parking lot. He facilitates parking for people. But he's been plagued by huge problems. His parking garages require 24-hour lighting, 7 days a week, which leads to high energy costs. Richard wanted Morstar to come up with a lighting solution that help him to solve his headache.

Morstar's lighting design team decided to use a smart, efficient lighting system designed to improve lighting levels and achieve the greatest possible reduction in energy costs and achieve significant savings in CO<sup>2</sup> emissions.



(\*Parking Garage Lighting Case Study)

The professional lighting design team not only provides the lighting control system, but also provides lighting design schemes for free. This is a complete set of 400 series Vapor Tight Light with motion sensor control solution and for a whole area to eliminate scattered dark areas that existed while walking or driving through the garage.

"I would like to have a garage that can monitor and manage the lighting, by reducing energy consumption." Richard was pleased, "Apparently, the Morstar team did."

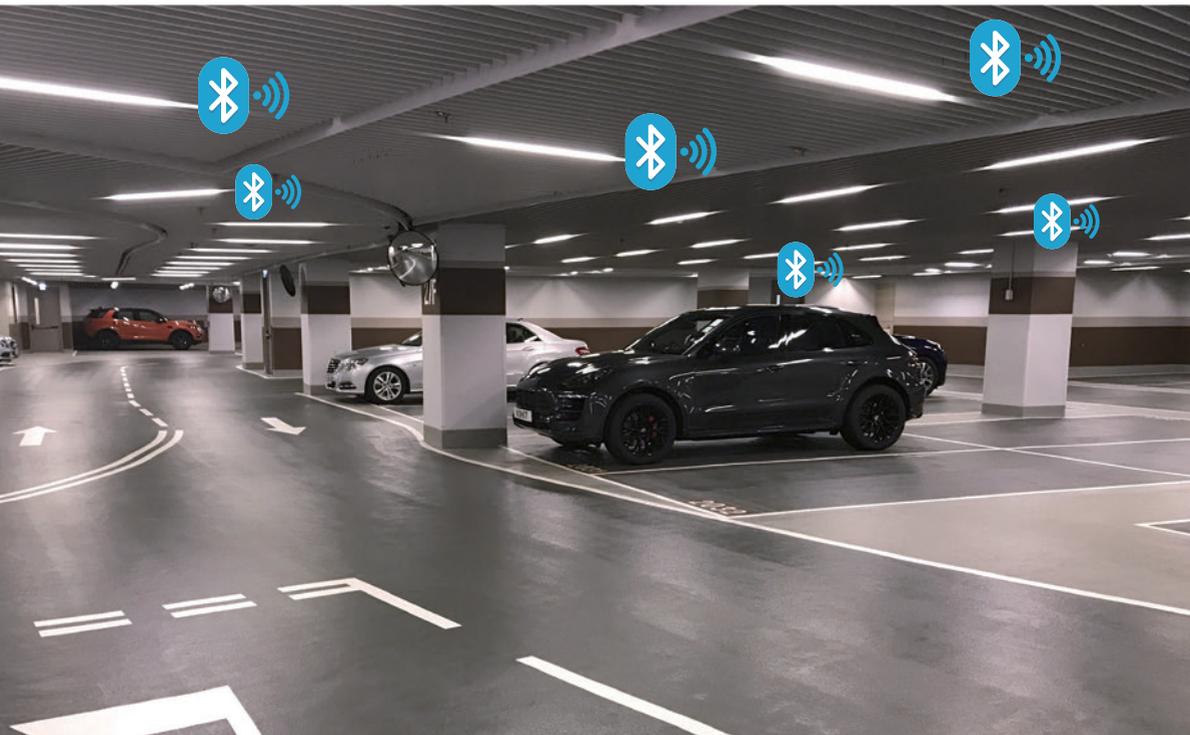
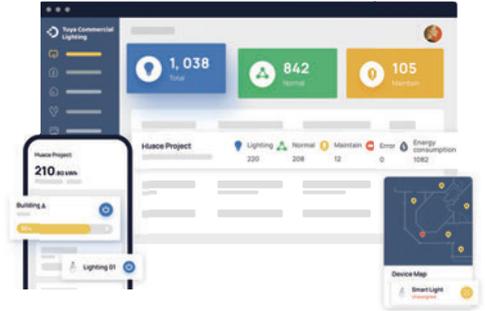
Great lighting is essential to deliver a positive user-experience in any parking garage. The smart lighting solutions on demand and ease of maintenance, ensure energy savings and decreased operational costs. Morstar's goal is to provide a safe, secure, cost-effective and sustainable solution for your parking garage.

# Our System - Smart Lighting Solutions

Morstar's industry/commercial lighting solution is a complete IoT control system that works for both new installations and retrofit projects. It is a one-step solution for hardware devices, control software and installation management.



The Morstar Lighting System meets all of the device and energy management criteria for green lighting solutions and healthy environments.



The solution we provide enables customers to monitor the operation and maintenance needs of all devices through a graphic user interface. With built in reporting and system insights, businesses are able to identify and implement strategies to reduce operation and maintenance costs.



LIGHTING

LED Fixtures



SENSOR

Physical Devices  
and Controllers



APP / SOFTWARE

Data and Analysis  
Software Applications

We make smart lighting control so intuitive and simple. Please let us know if you need other functions for different scenarios.

# WHY CHOOSE US

Morstar has the LED lighting solutions for such environments that can be individually matched to different lighting situations, meeting your needs for the moment.

01 

## More Energy Saving

Reduce installation, set up and training time by using the Morstar wireless system that includes luminaires and controls.

02 

## Simpler

Automatic control is designed to ensure cost savings, while manual control cannot achieve the same reliability.

03 

## Save More Time

It is simpler to better manage and fully optimize your lighting projects by using the Morstar mobile App.

04 

## Integration Services

Morstar with quality products and original lighting designs, resulting in integrated, creative, and appropriate solutions that meet their lighting needs.



## INDUSTRIAL



For an Example Using 80 Metal Halide Fixture Factory.

PROJECT COST RANGE	\$ 7,424 - \$11,360
ANNUAL KWH SAVED	57,907 - 87,060
PAYBACK	1 - 1.4 Years
ENERGY COST SAVINGS	\$ 5,960 - \$8,706

\*The data is for illustration only.



# PARKING GARAGE



For an Example Using 80 Metal Halide Fixture Garage.

PROJECT COST RANGE	\$ 9,500 - \$15,800
ANNUAL KWH SAVED	197,100
PAYBACK	0.7 Years
ENERGY COST SAVINGS	\$ 20,954

\*The data is for illustration only.



# OFFICE



For an Example Using 1000 CFL Office.

PROJECT COST RANGE	\$ 70,000 - \$132,000
ANNUAL KWH SAVED	130,416
PAYBACK	1.3 Years
ENERGY COST SAVINGS	\$ 80,652

\*The data is for illustration only.



**Please get in touch with us if you need any help with your lighting project!**

# PARKING LOT

For an Example Using 50 Metal Halide Fixture Parking Lot.

PROJECT COST RANGE	\$ 6,500- \$12,000
ANNUAL KWH SAVED	197,100
PAYBACK	1.2 Years
ENERGY COST SAVINGS	\$ 20,954

\*The data is for illustration only.



# AUTO DEALERSHIP

For an Example Using 80 Metal Halide Auto Dealership.

PROJECT COST RANGE	\$ 8,880 - \$11,600
ANNUAL KWH SAVED	22,364
PAYBACK	2.1 Years
ENERGY COST SAVINGS	\$ 4,216

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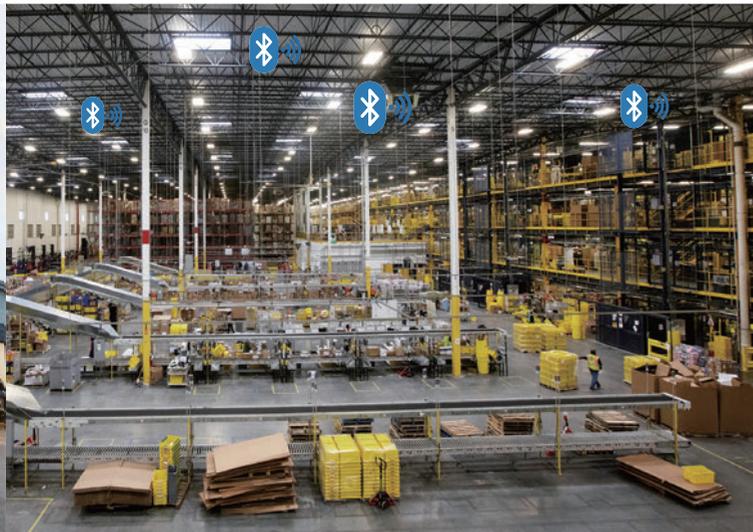
# FACADE LIGHTING



Facades exert influence on achieving superior aesthetics, and this is where facade lighting comes into play. Morstar's facade lighting uses multi-angle and polarizing lenses, offering a wide range of light levels, color mixes and beam angles to meet a wide range of design requirements. Smart facade lighting system, for users to bring more convenient operation.



# WAREHOUSE



For an Example Using 80 Metal Halide Auto Dealership.

PROJECT COST RANGE	\$ 8,360 - \$14,480
ANNUAL KWH SAVED	87,060
PAYBACK	1.2 Years
ENERGY COST SAVINGS	\$ 8706

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