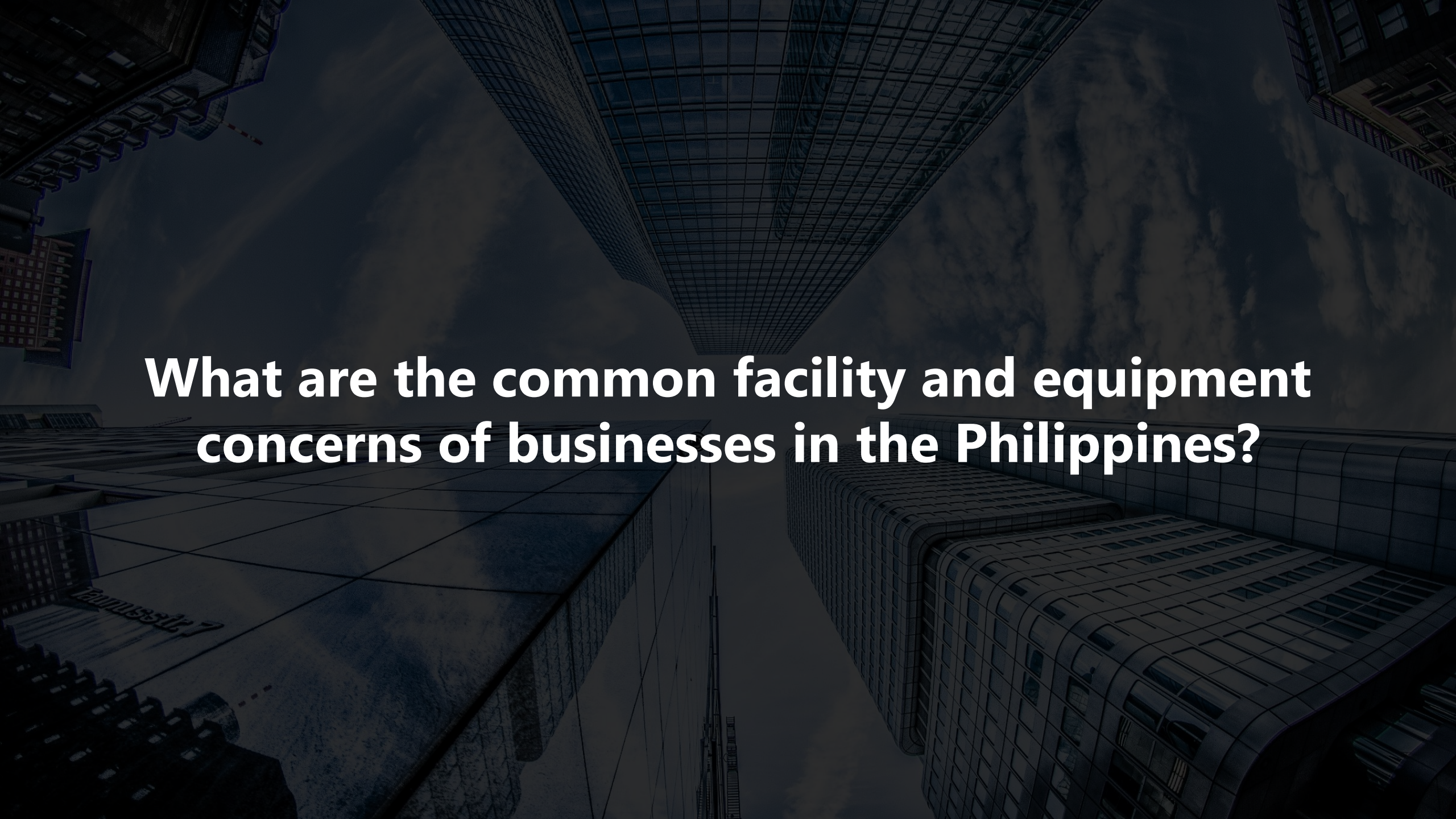


The background of the slide features a low-angle photograph of several modern skyscrapers with glass facades, reaching towards a clear sky. Overlaid on the right side of the image are several large, semi-transparent orange geometric shapes, including triangles and parallelograms, creating a dynamic, layered effect.

GEARING UP FOR ENERGY EFFICIENCY & CONSERVATION



What are the common facility and equipment concerns of businesses in the Philippines?



Businesses are facing multiple challenges in the built environment:

Underutilized facility equipment due to design

High energy consumption

Load side power quality issues

Manual facility and equipment monitoring

Poorly maintained facility

Underutilized facility equipment due to design



**3 OF 4 BUSINESSES HAVE
UNDERUTILIZED
ELECTRICAL FACILITIES**

Source: Meralco

Operating at <70% Efficiency

High energy consumption

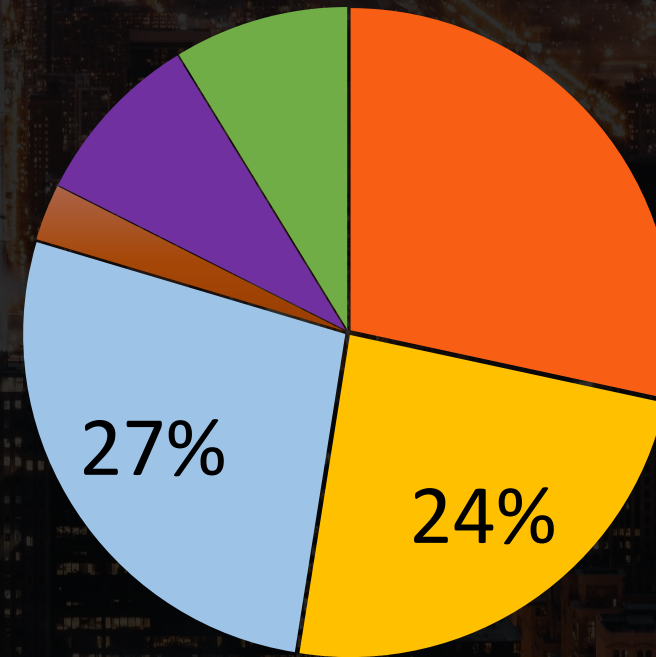
Philippine Energy Market

The commercial and industrial sector account for 51% of the electricity consumption in the country, about 48,341 GWh in 2017

Source: Department of Energy

2017 Philippine Electricity Consumption

Category	Consumption (MWh)
Residential	26,782,033
Commercial	22,767,981
Industrial	25,573,267
Own-Use	8,315,784
Systems Loss	8,261,747
Others	2,669,528



Load side power quality issues



**SILENT
KILLER**

“Presence of harmonics in the electrical system resulting to poor power quality, damage to equipment, and unexpected downtime.”

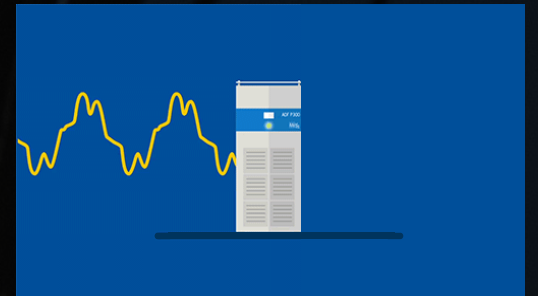
Source: Engineer's Journal

“At any User System, the harmonic distortions in voltage and current shall not exceed 5%.”

Source: Philippine Distribution Code and IEEE519

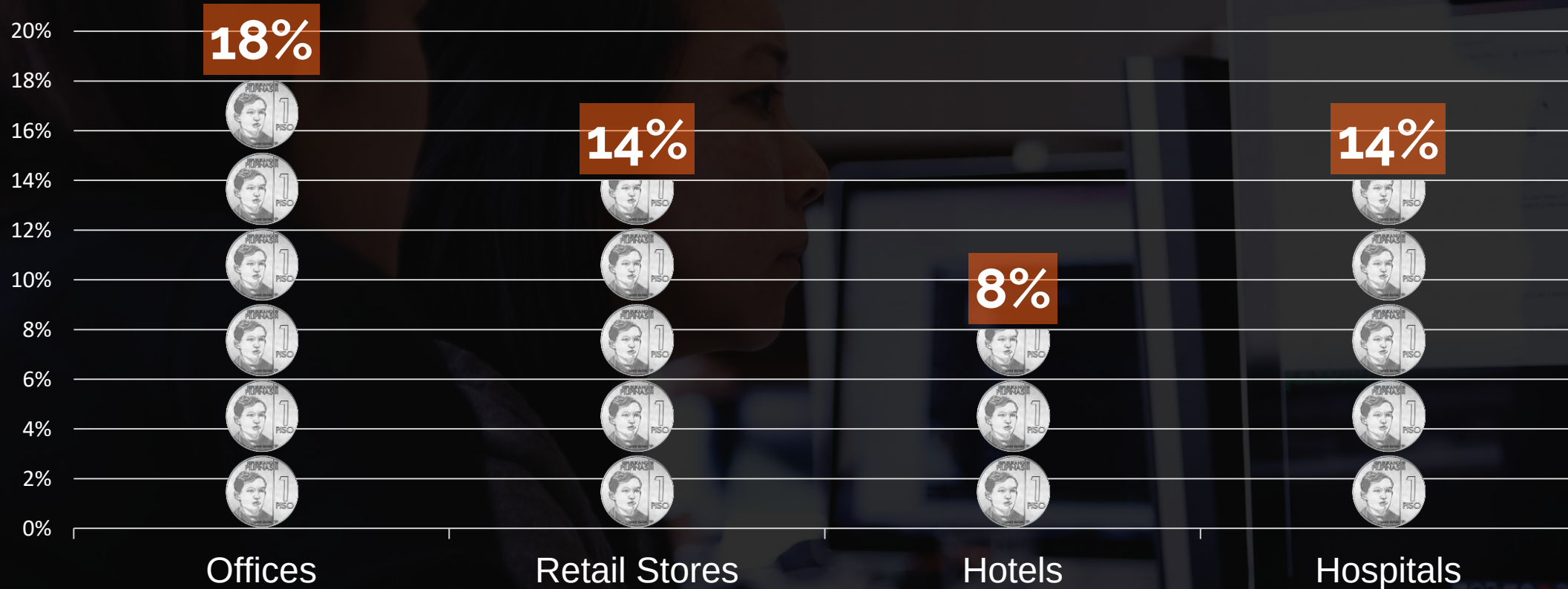
Equipment Life Reduction
32.5% for single-phase machines
18% for three-phase machines
5% for transformers

Source: Schneider Electric



Manual facility and equipment monitoring

AVERAGE POTENTIAL SAVINGS LOST WITHOUT BUILDING MANAGEMENT SYSTEM



Source: American Council for an Energy-Efficient Economy, 2017

Poorly maintained facility

“Electrical equipment deterioration is normal, but equipment failure is not inevitable.”

“Dependability can be engineered and built into equipment, but effective maintenance is required to keep it that way.”

Source: National Fire Protection Association 70B



The Energy Efficiency & Conservation (EE&C) Act or R.A. 11285 has been approved and signed by the President on April 12, 2019

BREAKING NEWS

What's the latest news in Energy Efficiency?



Salient Features of the Energy Efficiency & Conservation (EE&C) Act

- 1 Energy Performance Obligations for the Public and Private Sector
- 2 Energy Audit Requirement for Designated Establishments
- 3 Energy Labeling Program for Products and Equipment based on Energy Performance
- 4 Engineering Compliance with the Guidelines on Energy Conserving Design (GECD) 2008
- 5 Fiscal Incentives for Energy Efficiency Projects
- 6 Compulsory Energy Management Professionals
- 7 Load Side Management Program

In summary, the EE&C Act...

Requires



OBLIGATION

Enforces



MANAGEMENT

Provides

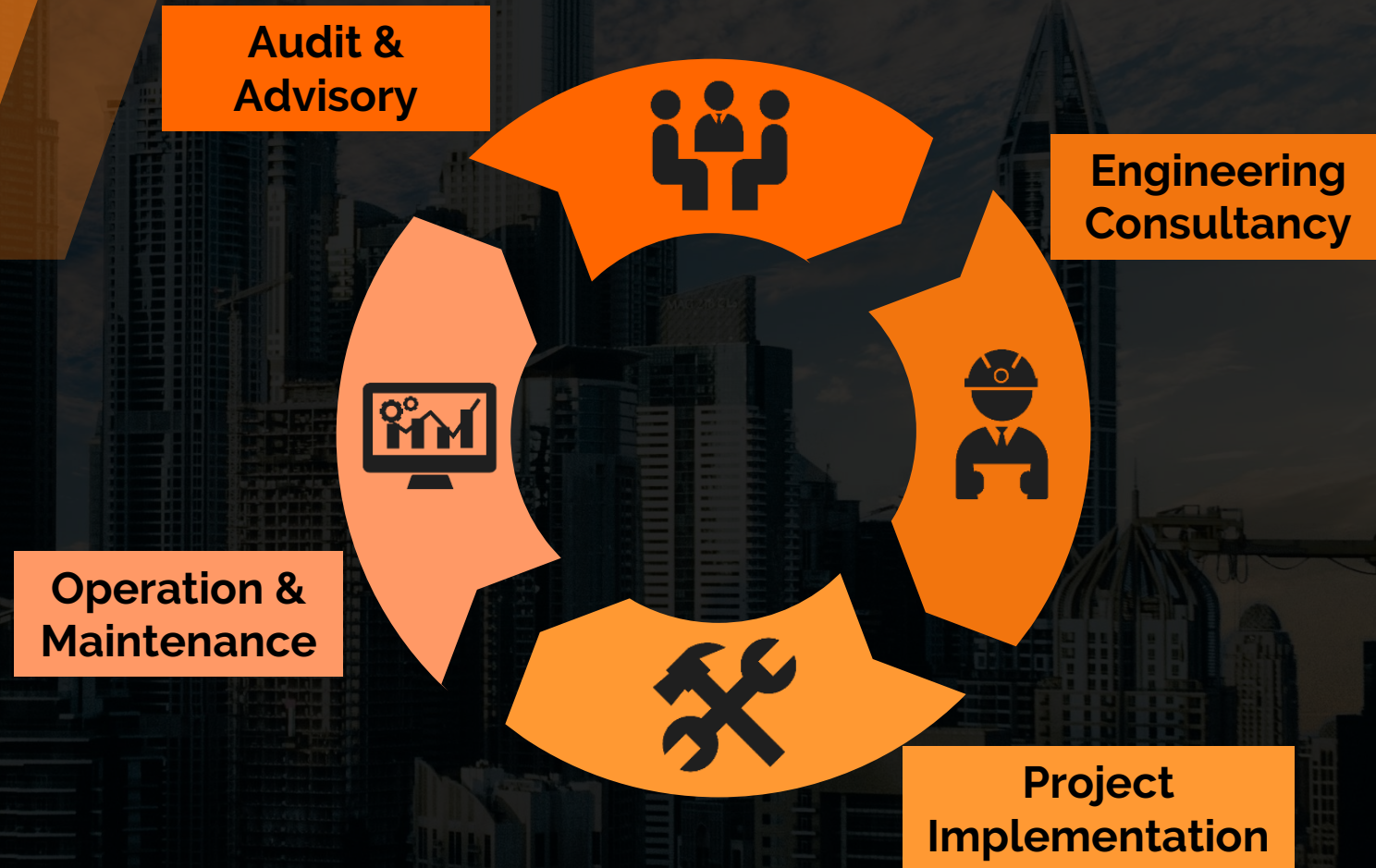


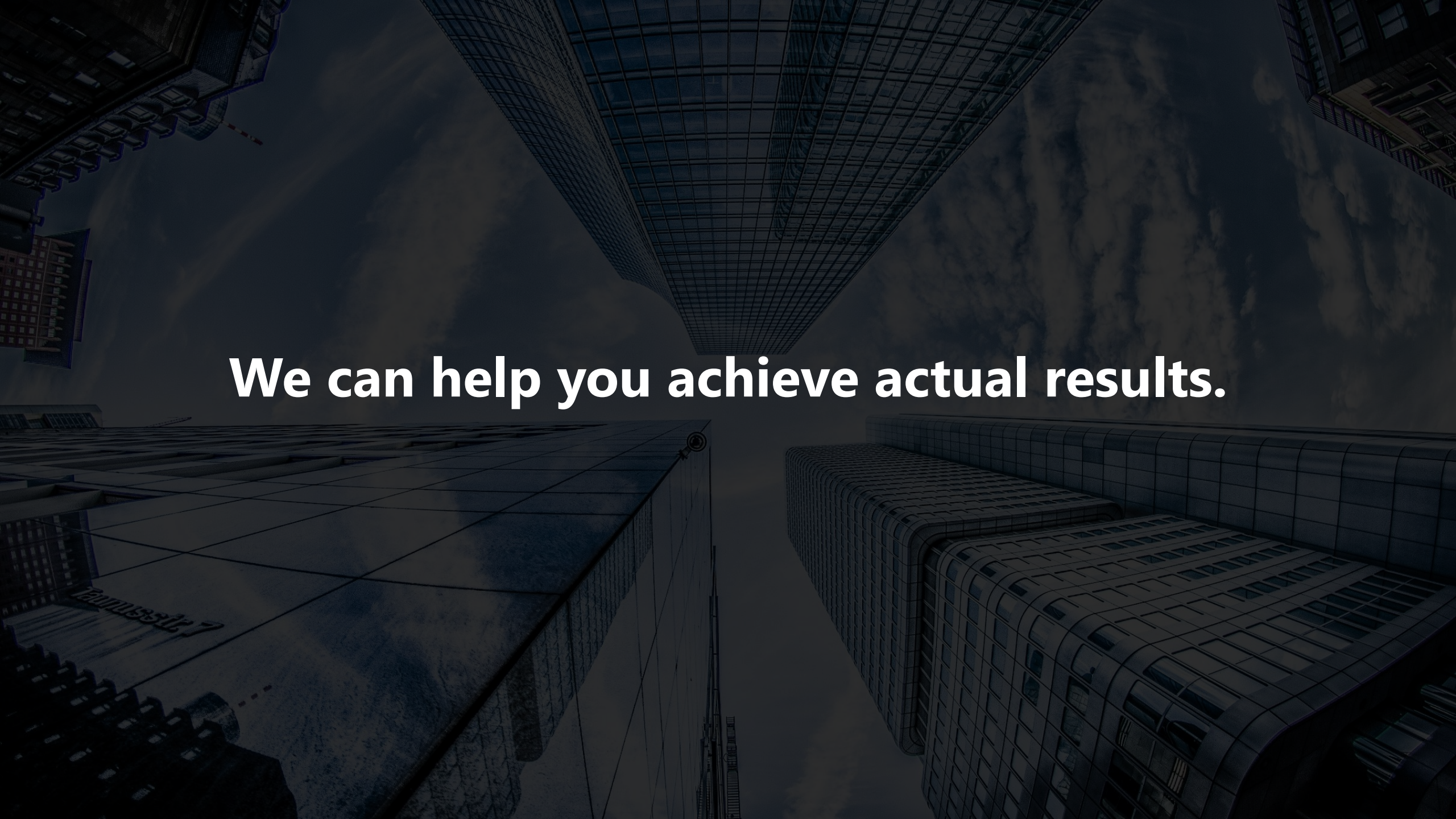
INCENTIVES

CHALLENGES

Underutilized facility equipment due to design
High energy consumption
Load side power quality issues
Manual facility and equipment monitoring
Lack of maintenance resulting to equipment breakdown

SOLUTIONS





We can help you achieve actual results.



Future-proof your business with energy efficient solutions.