



29-31 AGUSTUS 2023
YOGYAKARTA

**Power Interconnection Strategy
with Public Grid Utilities
for Reliable & Efficient Power Quality**

• **Radpandji Edy Widjaja** •

VISION AND MISSION

VISION

“To become leading and trusted company in supplying power and steam, including its infrastructure and other technical services for oil and gas industry, mining and other industry, in Indonesia and overseas.”

MISSION

1. Perform electricity and steam business, including its infrastructure and other technical services for oil and gas industry, mining and other industry which oriented to customer satisfaction and add benefit for stakeholders.
2. Provide innovative and efficient solution in supplying power and steam, including its infrastructure and other technical services for oil and gas industry, mining and other industry.
3. Carry out business activities by prioritizing integrity, safety, compliance and environment.

FOCUS BUSINESS :

- ✔ Power Generation
- ✔ Steam Generation
- ✔ Power Quality Services
- ✔ Green Energy Provider
- ✔ FASTRA Provider
- ✔ Operation & Maintenance
- ✔ Design & Consultancy
- ✔ Installation

WHY PT MCTN

- ✔ MCTN is implementing and utilizing standard tools and program in running all business processes. These tools and programs were adopted from best practices of multinational company and oil and gas industry.
- ✔ Operated largest heat recovery steam generator plant in the world for steam flood application using cogeneration technology.
- ✔ Proven a track record of operating the asset for -20 years with best in class international standards of oil and gas facilities.
- ✔ Implementing Prosedur Kerja Selamat (PROKESA). These guidelines helps the workers to work in the safest way. Employees should understand and follow the safe procedures on working.



“

Driven by a passion for innovation, our focus in business is steadfast to be the vanguard of energy solutions, illuminating the world of oil & gas, mining, & beyond with a legacy of reliability and distinction.

”

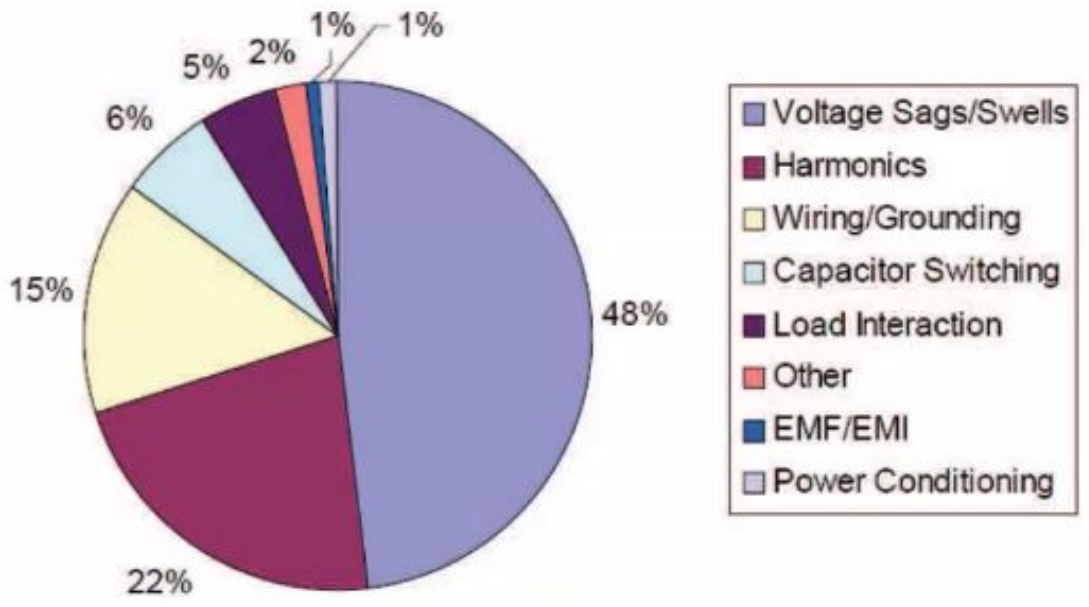
Grid Power Quality

Background

The most frequent and costly power quality issues in modern industries

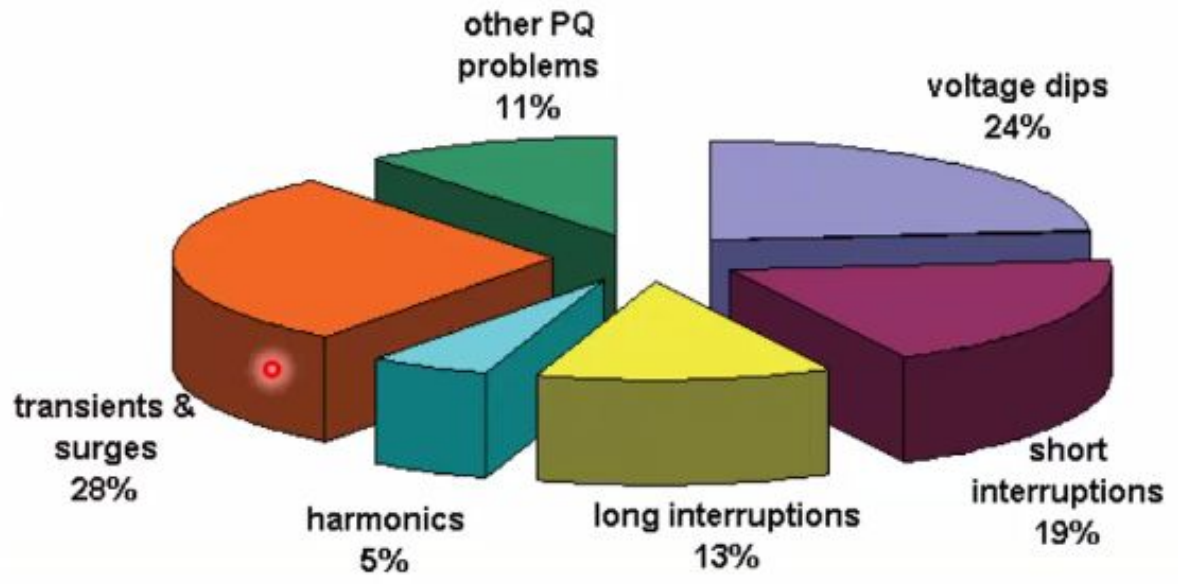


PQ issues based on number of events



Source: Electric Power Research Institute

PQ issues based on contribution to financial loss

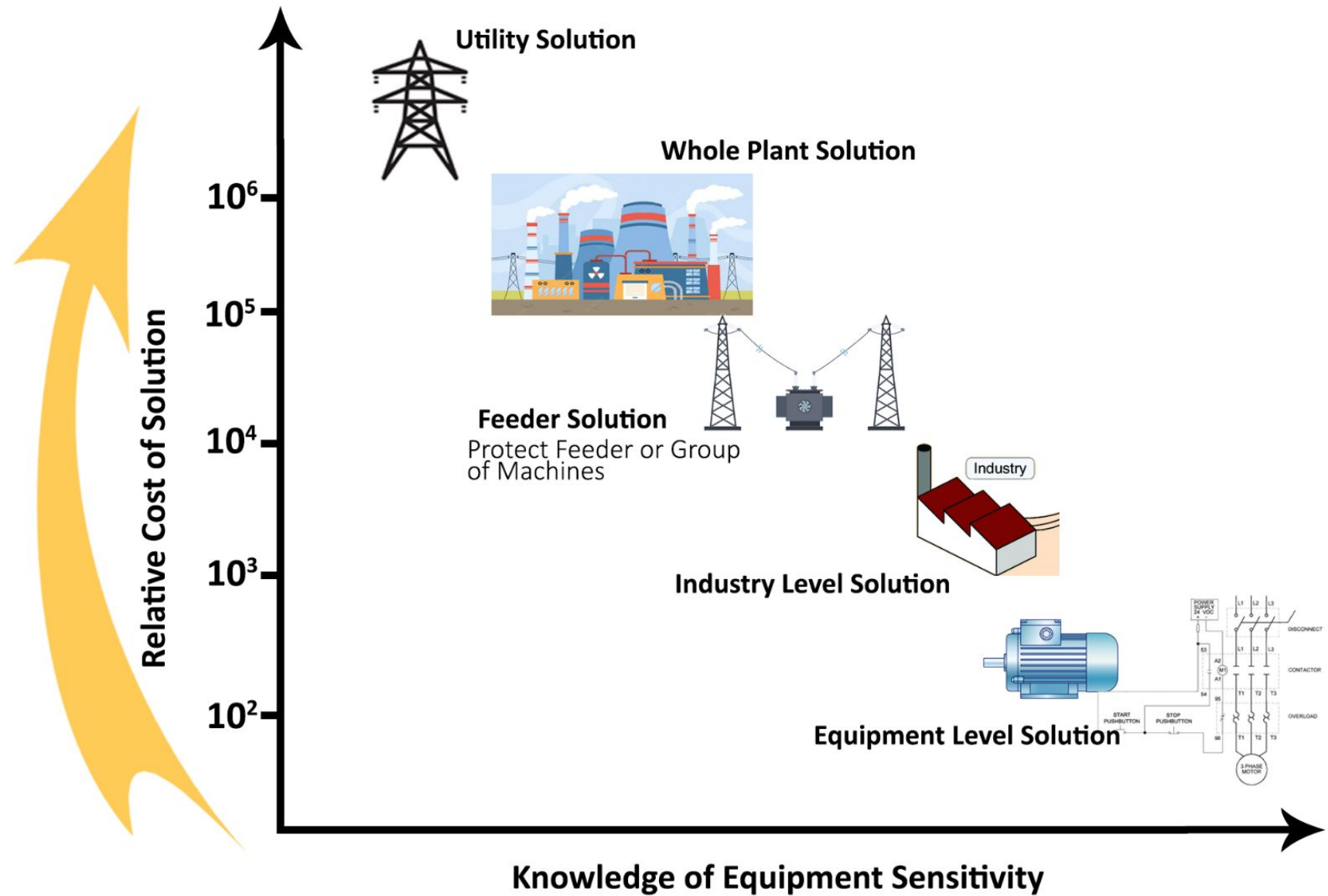


Source: European Power Quality Survey

Solutions Level Power Quality

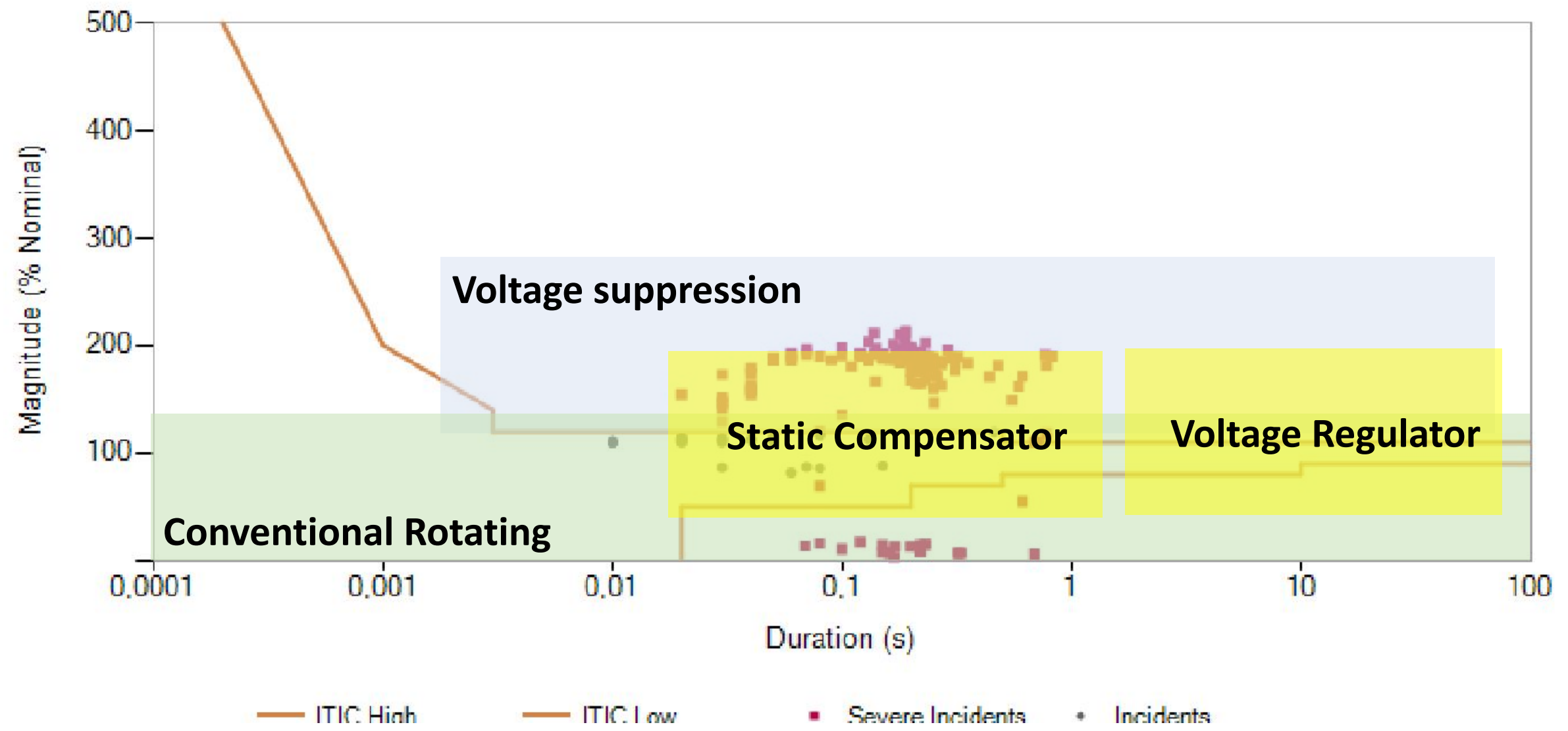


IKATAN AHLI FASILITAS PRODUKSI MINYAK DAN GAS BUMI INDONESIA



Knowledge of Equipment Sensitivity

Grid Power Quality





Behaviour of Power Quality Equipment

	Rotating Equipment	Static Equipment
Response	TTTTT	TT
Inertia	++++	++
Short circuit Capability	AAAAA	AA
Price	\$\$\$	\$
Short duration Characteristic	Voltage Source	Current source

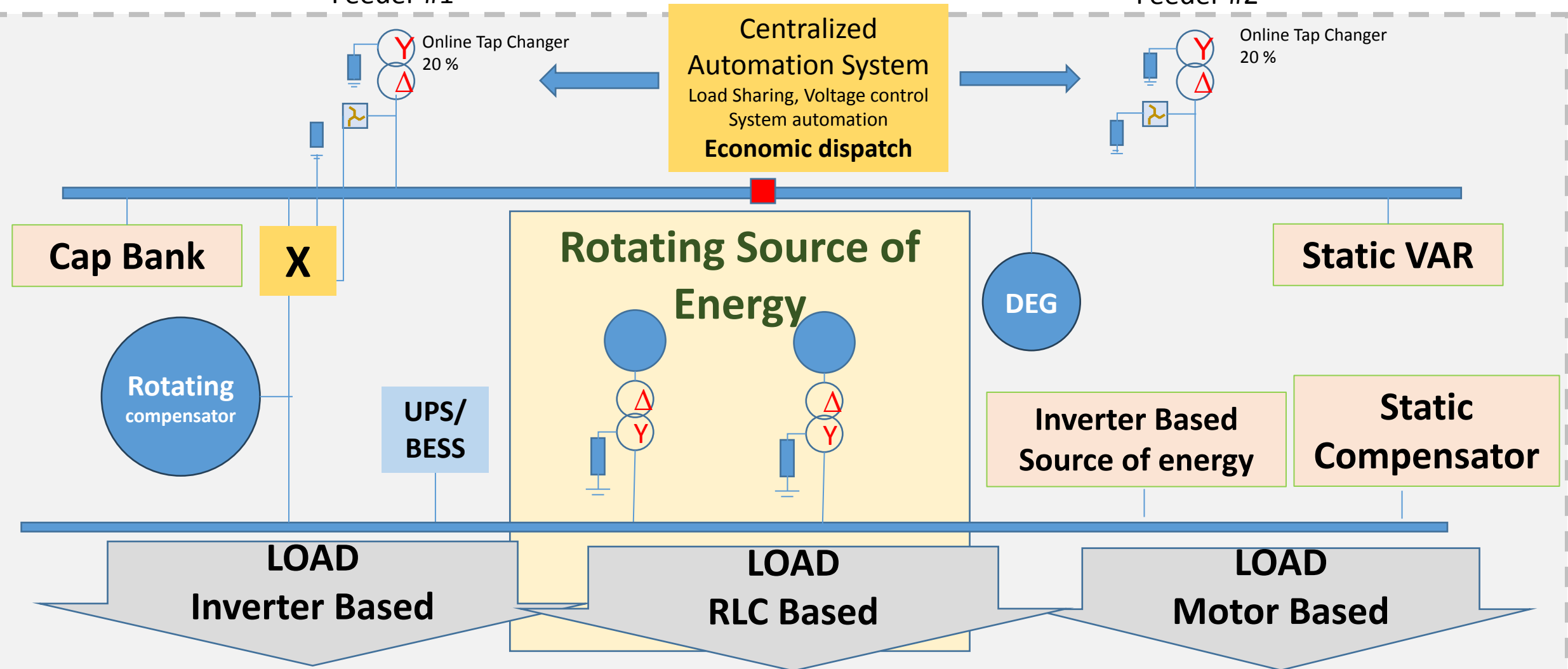
Micro Grid

Puzzling Power Quality equipment



Feeder #1

Feeder #2

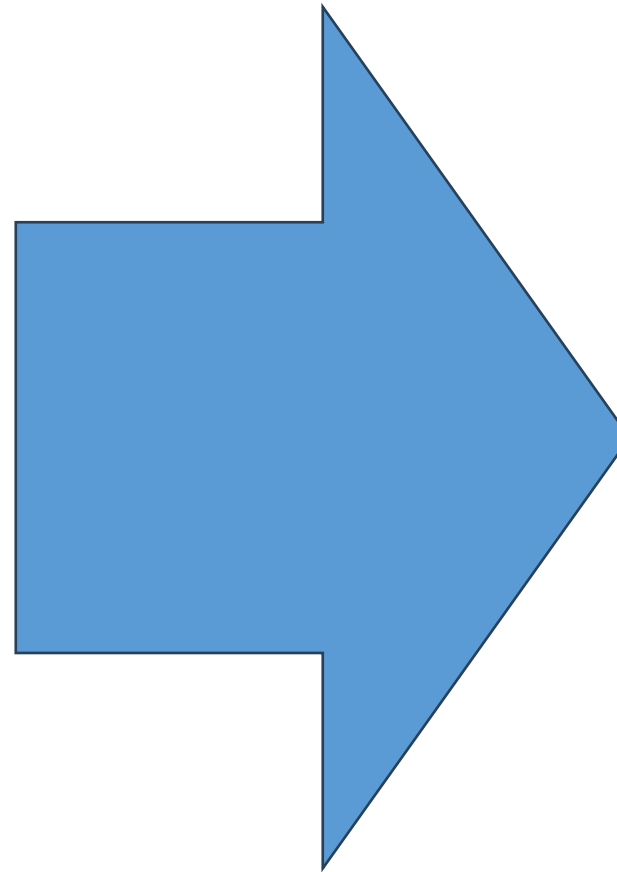


Power Quality

Economic

Reliable

Green



**High
Production**



IKATAN AHLI FASILITAS PRODUKSI
MINYAK DAN GAS BUMI INDONESIA



Terimakasih

Gandaria Office Tower, 5th Floor
Jl. Sultan Iskandar Muda, Jakarta 12240