Smart Energy Systems (SmartESt) Lab

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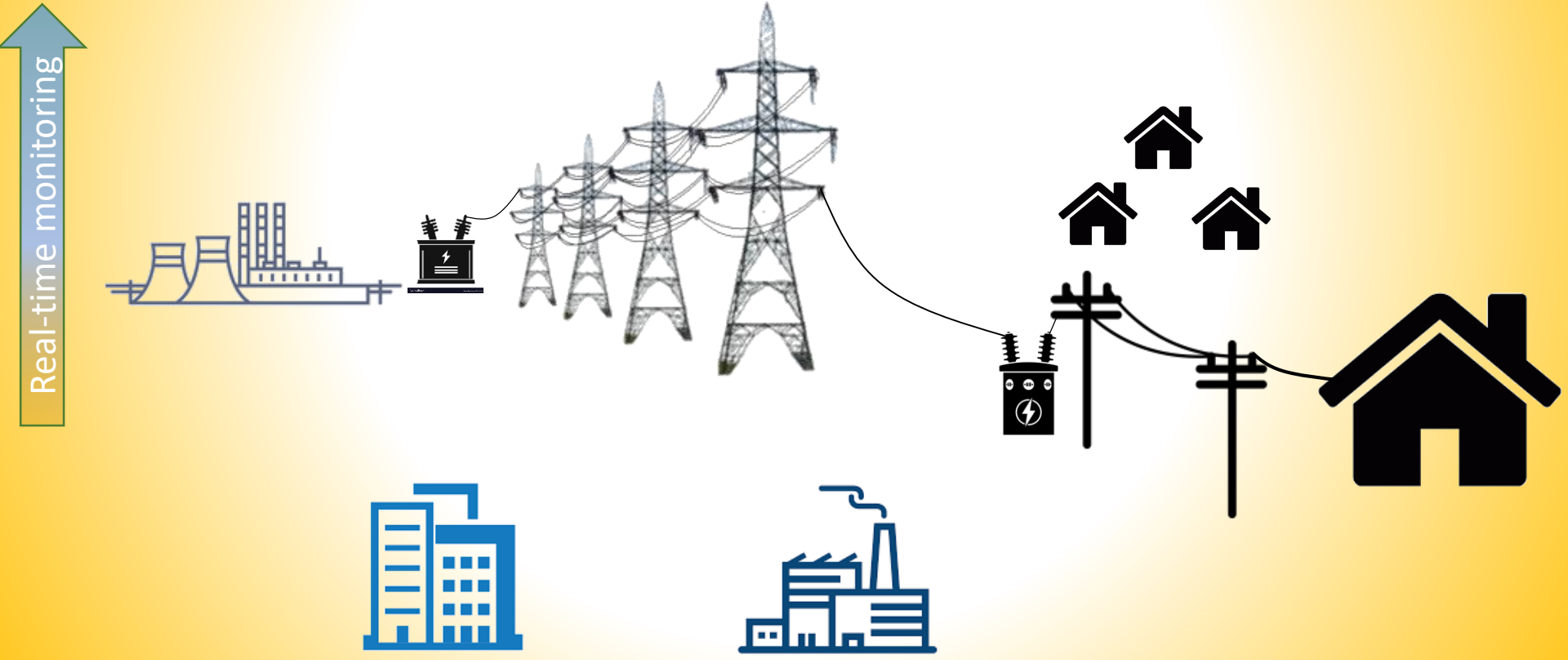
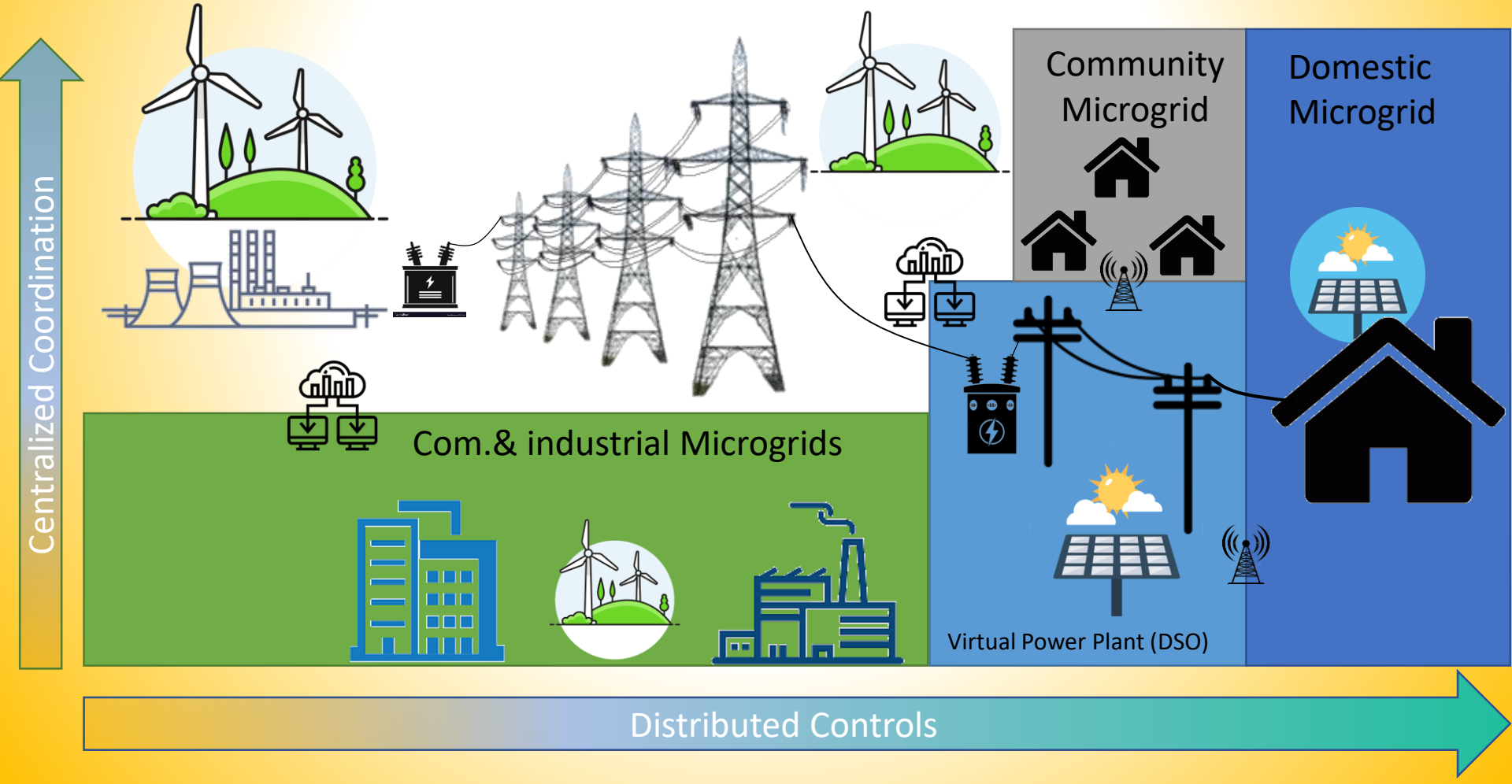
Conventional power systems



Modern power systems



Major Research Areas

- Renewable energy integration issues
  - Transients and dynamic stability
  - Operation and control
  - Planning
- Robust inverter control algorithms
  - Self synchronized systems
- Reliability of power system components
  - Failure mechanisms of (HVDC) converters.
  - Reliability models for SiC MOSFET based high-capacity power converters.

to learn more…
Scan the QR-code or visit "*https://imepe.nsysu.edu.tw/imepe/media/uploads/poster_manaz.pdf*"

Members

Marco Antonio Rojas Rodriguez

Research: Online power system inertia estimation using real-time PMU measurements.

You Tai Wei (游泰偉)

Research: Design and analysis Electrothermal and Aging(ETnA) model for SiC MOSFET converters.

Hsu Chin Chen

Research: Transmission system planning to accommodate large scale off-shore Wind Power Generation.

Meng-Lei Lu (陸孟蕾)

Research: Distribution system state estimation.

Po-shien Huang (黃柏憲)

Research: Artificial intelligence techniques for real-time inertia estimation in power systems.

Hong Shang-Ping (洪上評)

Research: SiC MOSFET Reliability Analysis.

Nina Erlianty

Research: Cost analysis of diesel and solar PV based rural electrification projects in Indonesia.

Are you excited to know more?

- Visit the Smart Energy Systems Lab located in EC8016-1

- Send an email to mohdmanaz@mail.ee.nsysu.edu.tw

Thank You!