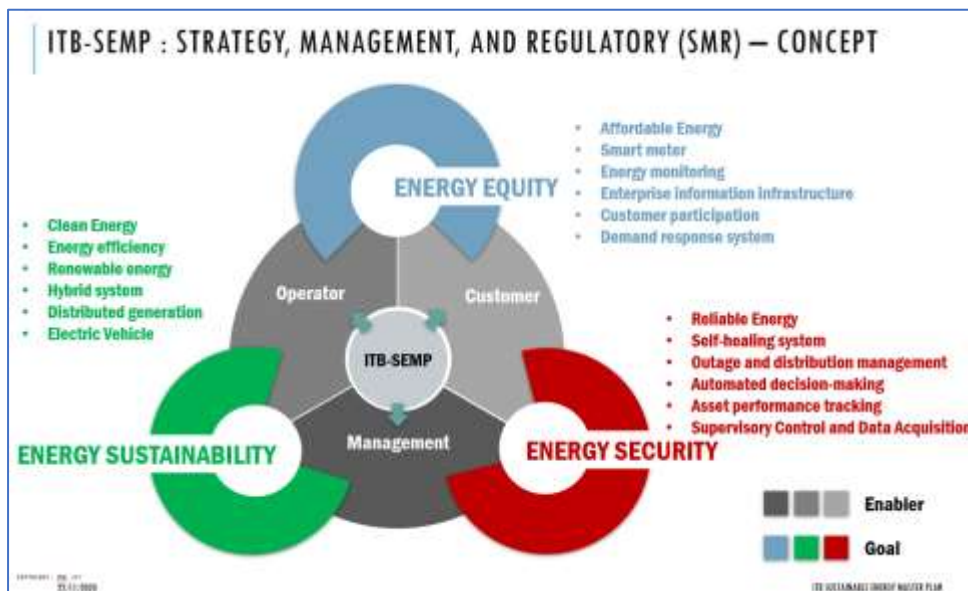
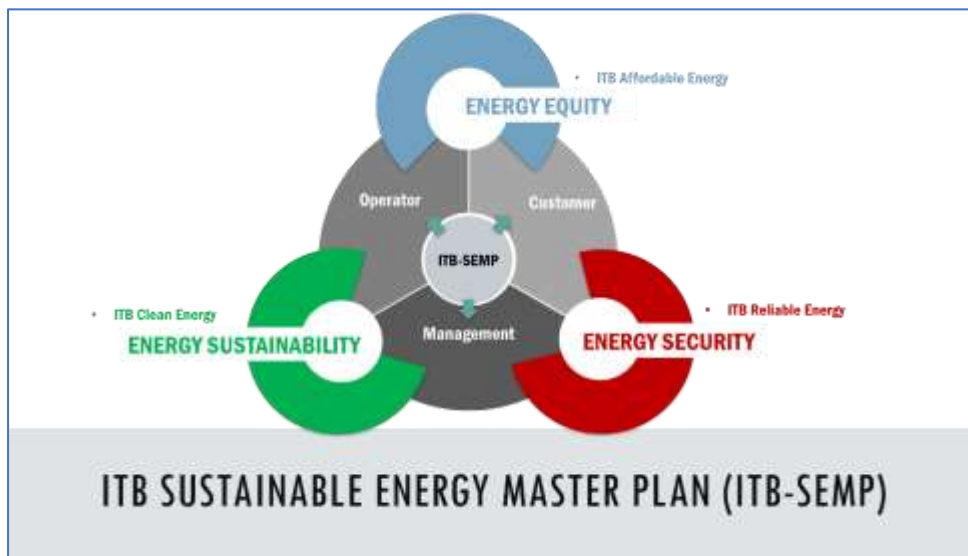


ITB has a policy in place for ensuring all renovations or new builds are following energy efficiency standards

- Existence of policy

1. ITB Sustainable Energy Master Plan
2. PV System Implementation in ITB Building
3. Smart Microgrid Implementation in ITB Building

1. ITB Sustainable Energy Master Plan



ITB SUSTAINABLE ENERGY MASTER PLAN – 8 SMART GRID DOMAINS

| No | Domains | Explanation |
|----|---|---|
| 1 | Strategy, Management & Regulatory (SMR) | Vision, planning, governance, stakeholder collaboration |
| 2 | Technology (TECH) | IT architecture, standards, infrastructure, integration, tools |
| 3 | Grid Operations (GO) | Reliability, efficiency, security, safety, observability, control |
| 4 | Customer (CUST) | Pricing, customer participation & experience, advanced services |
| 5 | Work & Asset Management (WAM) | Asset monitoring, tracking & maintenance, mobile workforce |
| 6 | Organization and Structure (OS) | Culture, structure, training, communications, knowledge management. |
| 7 | Value Chain Integration (VCI) | Demand & supply management, leveraging market opportunities |
| 8 | Societal & Environmental (SE) | Responsibility, sustainability, critical infrastructure, efficiency |

2. PV System Implementation in ITB Building

Tabel nstalasi Solar PV *Grid Tie* di kampus Ganesha ITB

| Nama Gedung | Konsep Sistem | PLTS (kWp) |
|----------------------|--------------------|------------|
| Lab Konversi EL-ITB | Grid Tie PV System | 2 kWp |
| Labtek IV – FTTM ITB | Grid Tie PV System | 10 kWp |
| PAU ITB | Grid Tie PV System | 2 kWp |



Solar PV Rooftop di Labtek IV – FTTM ITB (sumber: fttm.itb.ac.id)

3. Smart Microgrid Implementation in ITB Building

| Nama Gedung | PLTS (kWp) | Sistem Baterai (kWh) |
|---|------------|----------------------|
| Labtek XIV – SBM ITB | 57,6 | 192 |
| Labtek VI - TF – FTI | 1 kWp | 9,6 |
| Center for Advanced Sciences (CAS) – TF - FTI | 100 kWp | 57.6 |



Solar PV Rooftop di Labtek XIV – SBMITB



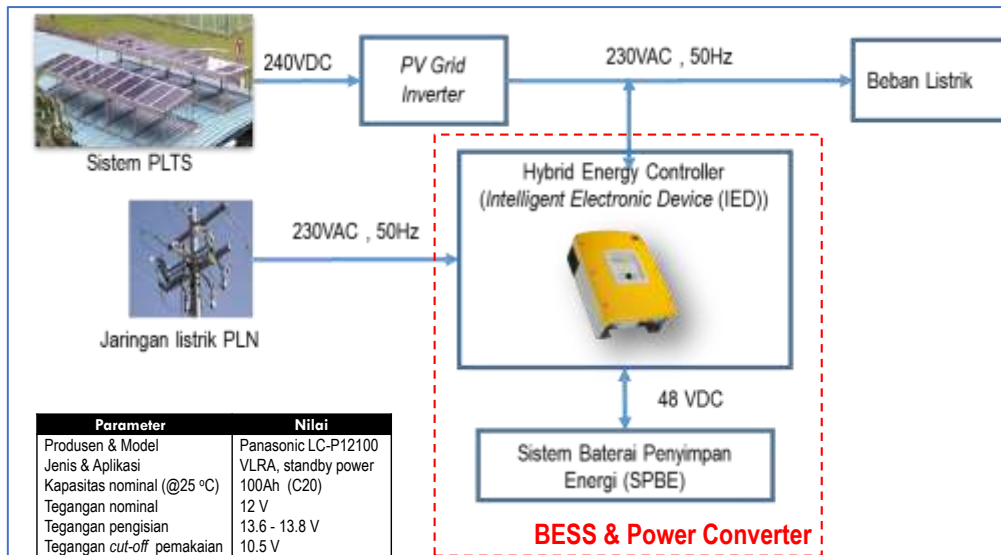
battery energy storage system di smart microgrid Gedung Labtek XIV SBM-ITB



instalasi PLTS rooftop 40kW di Gedung CAS



Implementasi Baterai Energy Storage System di smart grid Gedung CAS



Smart Microgrid Labtek VI - TF – FTI



Implementasi Baterai Energy Storage System di Smart Microgrid Labtek VI - TF – FTI