



POWER SOLUTION

Power Solution

» Our Solution

Telkominfra's energy solution offers a fully integrated power management system tailored to various infrastructure requirements whether grid connected or off-grid. Leveraging advanced technology, proven operational expertise, and a nationwide delivery network, we enable clients to optimize energy consumption, improve system reliability, and achieve greater operational efficiency with reduced total cost of ownership.

» Advantages

- We provide end-to-end power solutions spanning design, deployment, operation, and maintenance tailored for both on-grid and off-grid infrastructures.
- Our solutions are competitively priced and delivered with exceptional speed and service quality, ensuring timely execution and high customer satisfaction.
- We offer flexible service models such as Power as a Service (PaaS), allowing clients to reduce capital expenditure while maintaining operational reliability.
- We collaborate with trusted energy and technology partners to ensure the use of high quality, future ready components in every deployment.
- Our nationwide coverage and 24/7 Integrated Operation Center (IOC) enable real-time monitoring, proactive maintenance, and consistent operational excellence.

» Our Scope of Work

Deployment :

Green energy, Power Deployment (On & Off Grid)

Operation :

Power As A Services, Power Engineering, Power Operation & Maintenance (On & Off Grid), Carbon Solution

01 » Green Energy

Green energy solution with solar PV implementation

02 » Power Deployment (On Grid & Off Grid)

Power System Planning & Installation

03 » Mechanical Electrical

ME Installation for Telco Network

04 » Power as a Service

Electricity Supply with OPEX

05 » Power Reengineering

Power System Dismantle & Relocation

06 » Power Operation & Maintenance (On & Off Grid)

Power System Maintenance

07 » Carbon Solution

Carbon Management for the Telco Industry



Power Solution

Deployment

>> Green Energy

Green Energy service focuses on delivering clean and sustainable energy solutions to support telecom infrastructure, especially in remote or off-grid areas. It combines solar power, battery storage, and smart monitoring for maximum efficiency.

► Service Offered :

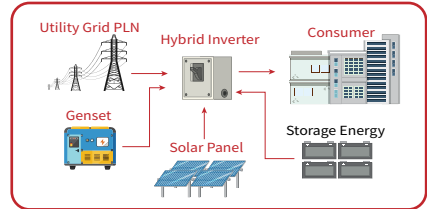
- Solar Panel System Design & Installation
- Battery Energy Storage System (BESS)
- Renewable Energy Hybrid Solutions
- Green Power Site Feasibility Assessment

► Advantages :

- Environmentally friendly and low emission
- Reduces fuel dependency and operational cost
- Scalable and quick to deploy in remote areas
- Enhances energy availability and resilience

► Scope of Work :

- Renewable energy site survey and simulation
- Solar PV and battery installation
- Hybrid system integration (solar + genset)
- Remote monitoring and maintenance



>> Power Deployment (On & Off Grid)

Power Deployment services provide end-to-end infrastructure development for both on-grid and off-grid telecom sites. It includes design, installation, commissioning, and integration of power systems.

► Service Offered :

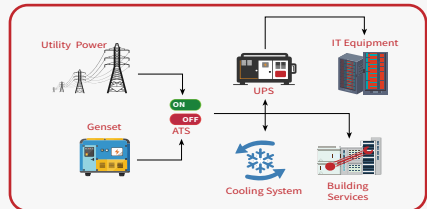
- Grid and Off-Grid Power System Deployment
- Electricity Planning & Engineering
- Generator and Rectifier Installation
- Power Distribution System Setup

► Advantages :

- Nationwide project delivery capability
- Expertise in both urban and remote environments
- Efficient project management and logistics
- Fast-track implementation with proven methodology

► Scope of Work :

- Technical survey and engineering design
- Electrical system installation (AC/DC)
- Integration with telco infrastructure
- Testing, commissioning, and documentation



>> Mechanical Electrical (ME)

Telkominfra offers Mechanical & Electrical (ME) services to support data centers, STOs, and network sites. This includes design, construction, and maintenance of MEP (mechanical, electrical, plumbing) systems.

► Service Offered :

- Electrical System (UPS, Generator, Panel)
- HVAC and Precision Cooling
- Fire Suppression & Alarm System
- CCTV and Access Control

► Advantages :

- Certified data center compliance (CDCP, CDCS, etc.)
- Experienced in national-scale deployments
- Tailored solutions for different site types
- Comprehensive documentation and QC process

► Scope of Work :

- Site survey, layout, and single-line diagram
- Full MEP installation and cabling
- Verification and safety compliance testing
- Preventive and corrective maintenance



Power Solution

Operation

» Power as a Service (PaaS)

Power as a Service offers customers a flexible, OPEX-based model for power infrastructure without upfront capital investment. Telkominfra manages end-to-end power services with performance guarantees.

» Service Offered :

- Monthly Power Subscription Model
- End-to-End Managed Power System
- Full Investment, Operation, and Maintenance by Telkominfra
- Customized SLAs and Performance Reporting

» Advantages :

- Zero CAPEX for customer
- Predictable monthly cost (fixed or based on usage)
- Quick deployment with fast ROI
- Enables customer focus on core business operations

» Scope of Work :

- System provisioning and installation
- 24/7 operation and monitoring
- Fuel supply, maintenance, and repair
- Power availability performance assurance



» Power Reengineering

Power Reengineering aims to modernize and optimize existing power infrastructure by upgrading components and redesigning systems for higher efficiency and lower cost.

» Service Offered :

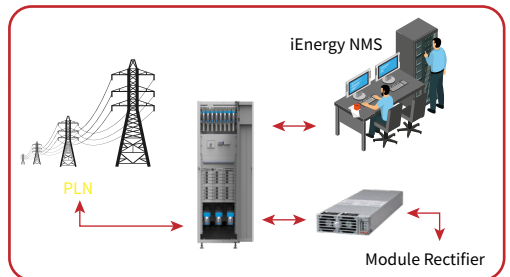
- Generator and Rectifier Modernization
- Power Load Balancing and System Retuning
- Energy Efficiency Improvement
- Equipment Relocation and Retrofit

» Advantages

- Lower operational cost through energy savings
- Reuse of existing assets where possible
- Improved system availability and efficiency
- Environmentally friendly upgrades

» Scope of Work :

- Assessment of existing infrastructure
- Dismantling and upgrading obsolete equipment
- Design and implementation of new power topology
- Documentation and integration with existing systems



Power Solution

Operation

>> Power Operation & Maintenance (On & Off Grid)

Comprehensive operation and maintenance services for on-grid and off-grid power systems, ensuring optimal uptime, cost efficiency, and performance.

» Service Offered :

- Preventive & Corrective Maintenance
- Fuel Management & Refueling Services
- Remote Monitoring via IOC
- Power System Troubleshooting

» Advantages :

- Nationwide coverage with regional support teams
- ISO-certified processes and systems
- Real-time monitoring and alarm escalation
- Increases system availability and prolongs asset life

» Scope of Work :

- Routine inspections and performance checks
- Component repair and replacement
- 24/7 issue escalation and resolution
- Site-based and centralized operations
- Documentation and integration with existing systems



>> Carbon Solution

Carbon Solution is Telkominfra's initiative to support decarbonization through energy audits, emission monitoring, and deployment of low-carbon technologies in infrastructure.

» Service Offered :

- Carbon Emission Auditing
- Green Energy Conversion Planning
- Smart Metering and Energy Monitoring
- ESG (Environmental, Social, Governance) Compliance Advisory

» Advantages

- Supports customer ESG and sustainability targets
- Provides measurable carbon savings
- Helps reduce operational risk from future regulation
- Demonstrates environmental responsibility to stakeholders

» Scope of Work :

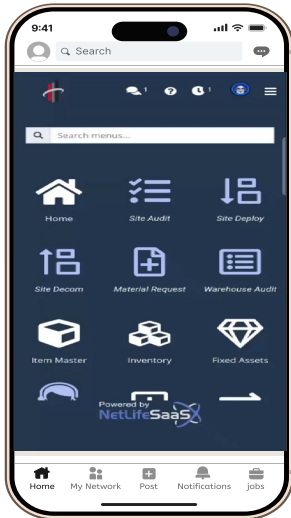
- Assessment of carbon footprint per site or project
- Recommendation of green energy transition path
- Integration with digital monitoring platforms
- Emission reduction reporting and impact evaluation
- Documentation and integration with existing systems



Netta & SPMS

Beyond End to End Managed Service and SPMS

>> NETTA, supported by GSMS Netlife and certified with ISO 9001:2015, ISO 14001:2015, ISO/IEC 17025:2017, and ISO/IEC 27001, provides environmentally sustainable Asset Lifecycle Management services. These include spares management, local part swap and repair, and optimization using customized cloud-based reporting tools. NETTA delivers agile, transparent, and cost-effective solutions to optimize network maintenance and asset reuse.



NetLife



Ticketing

Fast and structured technical service requests (screening, spare parts, repair).



Manage Asset

Track and manage device lifecycle based on serial number/model.



Analysis

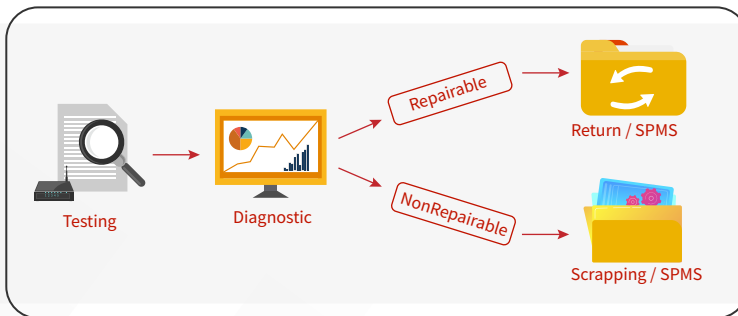
Performance reports, NFF (No Fault Found) rate, TAT (Turnaround Time), and vendor evaluations.



E2E Flow Management

Integrated process from request to return/RCA/logistics.

SPMS FLOW



Reduce Logistic Cost

Performed in-country, with warranty to OEM specifications

Reduce Warehousing

Decide Repairable and Nonrepairable equipment

Beyond End to End

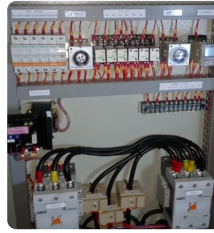
Creating full circular economy ecosystem

Project References

Power System and ME Project



Long Term Services PLN
Customer : PLN
Period : 2017 - Now



Sewa Daya CDC
Customer : Telkomsel
Period : 2015 - Now



Large Power System
Customer : Telkomsel
Period : 2016 - Now



ME Data Center & Enterprise
Customer : Gov. /Co.
Period : 2016 - 2019



Generator Procuring and
Installation
Customer : Telkomsel
Period : 2016 - Now



Small Power System
Customer : Telkomsel
Period : 2014 - Now



Scattered Generator
Customer : PLN
Period : 2017 - Now

Telkominfra has delivered around **25 Project**
related Power System & ME Project
(Since 2014, involving about **1200 Resources** that
covers 11 region national wide)



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