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MPMC 18MW Biodiesel Power Project

Indonesia | Power Plant

汇报人: agnes

2025.10.22

Project Overview

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Location	Indonesia
Total Capacity	18 MW
Unit Rating	1 MW per generator
Quantity	18 containerized gensets
Fuel Type	Biodiesel
Application	Industrial power supply
Delivery Scope	Design, manufacturing, testing, and commissioning
Key Objective	Provide stable, low-emission distributed power generation

Technical Excellence

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High Power, Custom-Built Design

- Rated Power: 1,200 kW prime / 1,000 kW continuous
- Designed for continuous, heavy-duty operation
- Optimized for high reliability and long service life

Parallel Operation Technology

- Mature synchronization and load-sharing control system
- Ensures stable power output and efficient system balance

Core Power Components

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Engine: **Cummins KTA50-GS8**

- Strong power output and excellent fuel efficiency
- Proven reliability in heavy-duty continuous applications
- Supported by Cummins' global service network

Alternator: **Leroy-Somer LSA50.2 L8**

- High efficiency, low loss, and stable waveform output
- Excellent short-circuit and thermal endurance
- Ideal for industrial and utility-scale power applications

Fuel: **Biodiesel**

- Powered by renewable biodiesel for cleaner operation.
- Lower emissions and reduced environmental impact.
- Meets global standards for sustainable energy use.

Sustainability and Environmental Value

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Biodiesel Production Process:

Feedstock (Oil/Fats) + Alcohol
→ Biodiesel + Glycerin (by-product)

♻️ Renewable & Secure

- Sourced from organic materials (vegetable oils, animal fats, waste cooking oil).
- Reduces reliance on fossil fuels and promotes a circular economy.

🌱 Significant Emissions Reduction

- Lowers lifecycle CO_2 by up to 85% compared to petroleum diesel.
- Cuts particulate matter and other local air pollutants.

📜 Regulatory Compliance

- Ensures adherence to stringent international environmental & carbon mandates (e.g., RED II, RFS).

⚙️ Immediate Deployment

- A seamless "drop-in" fuel requiring no engine modifications.

Robust Engineering for Harsh Conditions

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Tropical Outdoor Generator Sets

The generator sets are designed to withstand high temperature, humidity, and dusty environments. The enclosures provide **superior protection with sound insulation, corrosion resistance, and weatherproof performance**, ensuring stable operation under tropical outdoor conditions

Testing & Quality Assurance

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Generator Quality Assurance Process

All units underwent comprehensive functional, load, and protection testing before shipment to ensure optimal performance and reliability. Each generator passed MPMC’ s strict quality standards, confirming readiness for long-term continuous operation in real-world conditions.

Project Implementation

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MPMC's engineering team successfully executed a rapid deployment, completing all installation, grid synchronization, and commissioning upon arrival. **The system has demonstrated stable and reliable operation in a demanding tropical environment.** This efficient execution and proven equipment performance earned high client recognition, solidifying trust in MPMC's capabilities.

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CONTACT US

Mobile

+86-150 0085 4420

(Whatsapp/Wechat)

Email

sales@mpmc-china.com