

EMPOWERING THE G20 SUMMIT: SWIFT RELOCATION OF GRATI2X100 MW GAS TURBINE POWER PLANT FROM JAVA TO BALI

*2022 GRAND LEAP
RELOCATING POWER WITH UNMATCHED SPEED AND SCALE*

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Indonesia Ascends: Host of G20 Summit 2022

Indonesia proudly steps onto the global stage, Bali being chosen as the esteemed host for the G20 Summit

OCT 2021



Amid the backdrop of a slim energy buffer - with an available capacity of only **1,004 MW** against a peak load of **915 MW** - intense evaluations were carried out. These assessments unveiled Bali Grid System's fragility and underscored the dire need for an enhanced power infrastructure.

Decisive Action: Relocation of Grati Power Plant Approved

JAN 2022



10 months
availability work time



Rapid Reinvention: Powering Ahead with Unity & Innovation

With agility and speed at its core, bolstered by unyielding collaboration, the period witnessed a masterclass in technological adoption to surmount challenges and fortify the grid.

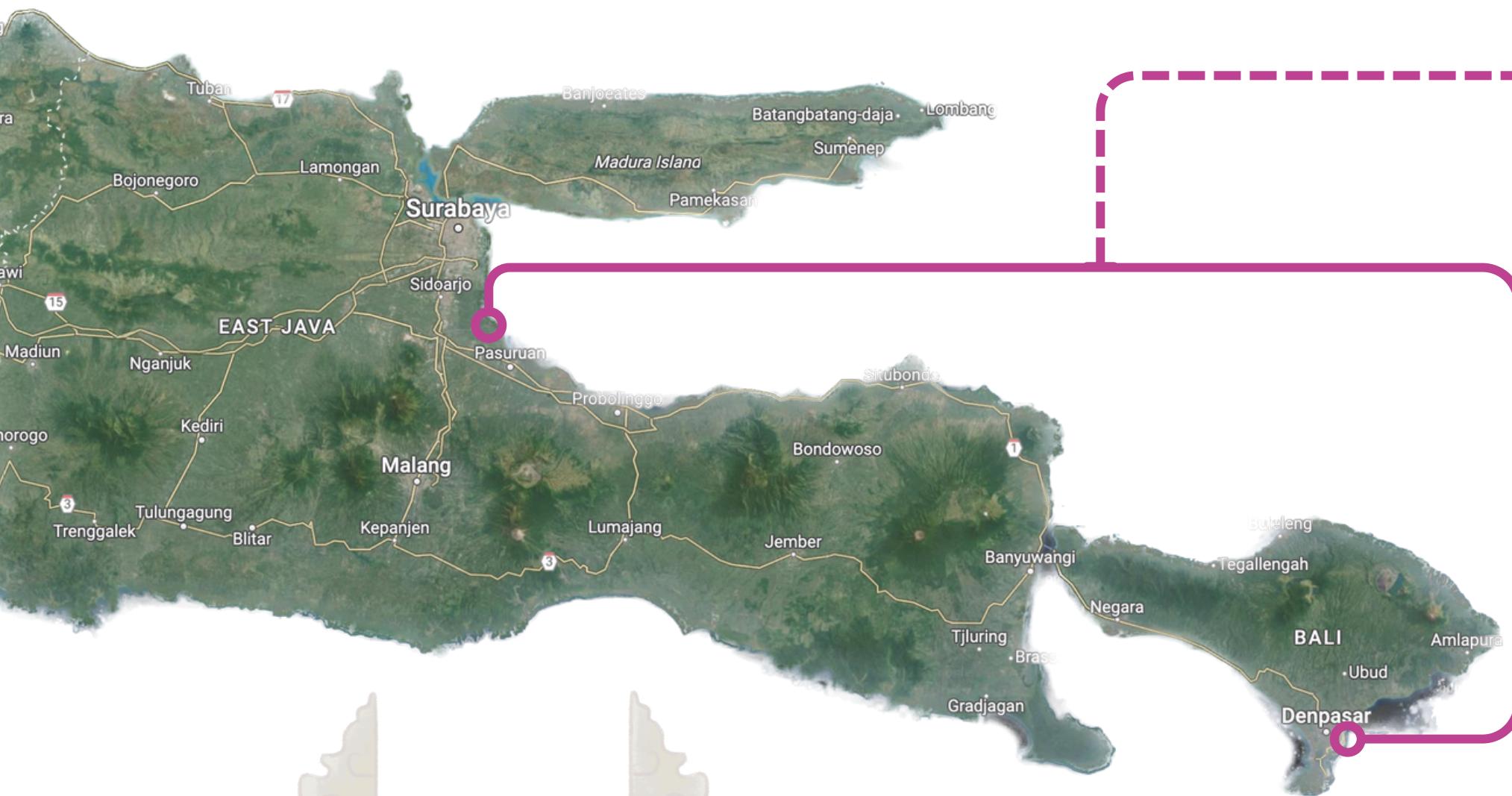
Triumph Against Time: Project Completion

In an impressive display of commitment and efficiency, the Relocation Project concludes a month ahead of the monumental G20 Summit.

OCT 2022



STRENGTHENING BALI'S GRID : A RACE AGAINST TIME FOR G20 SUMMIT



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In a world where the standard procedure dictated a 20-month timeline, PLN took a bold stride, committing to completing the Grati Gas Power Plant Relocation in just half the time.

Merging the agility of Agile with the Waterfall approach's structure, our hybrid Project Management became the bedrock of success. Furthermore, by harnessing reverse engineering, we accelerated the project's pace without compromising excellence. This wasn't just about efficiency; it was about laying a flawless foundation for the pivotal G20 Summit.

For PLN, this mission transcended technical success; it was about global empowerment.

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Weight of the Equipment



Towering Heft: 800 Tons - Gravity Defied

The sheer weight stands as a beacon of engineering ambition. Confronting 800 tons wasn't just a challenge; it was a declaration of our capability.

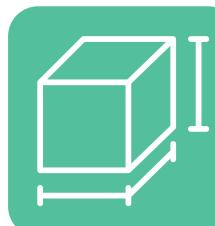
Distance of Relocation Project Covered



Epic Transit: 600 km - Bridging Challenges

Covering 600 km is more than a journey; it's our commitment to ensuring uninterrupted dialogues at the G20. Each kilometer draws world leaders closer to their agenda.

Dimension of the Equipment



Expansive Foundation: 2000 m² of Groundbreaking Vision

Within the ample 2000 m², we're not just setting up infrastructure; we're facilitating an arena where every global decision finds its footing.

Time Required of the Project



Pacing Global Pulse: From 18 to 10 Months

Speeding up an 18-month timeline to 10 months is our dedication to the G20 summit. Time wasn't just managed; it was masterfully manipulated for world leaders.

BALI'S ENERGY BACKBONE: POWERING GLOBAL DECISIONS AT THE G20 SUMMIT

The Bali Grid System stands as the silent powerhouse, ensuring that every pivotal moment at the G20 Summit is backed by unwavering energy reliability. It's not just an infrastructural marvel, but a beacon of Indonesia's commitment to facilitating global leadership and dialogue.



A Diplomatic Pulse: The Energy Backbone

The Grati Gas Turbine Relocation Project ensured uninterrupted discussions at the G20, showcasing PLN's operational excellence.



Beyond Infrastructure: A Statement of Commitment

More than an engineering feat, the project symbolized Indonesia's dedication to global collaboration.



Redefining Reliability: Powering Crucial Conversations

Strengthening the Bali Grid System guaranteed a stable platform for world leaders' vital dialogues



Fast-Track Excellence: Meeting Global Expectations

Despite tight deadlines, the project's completion demonstrated PLN's agility on the world stage

MAJOR CHALLENGE

RELOCATION GRATI GAS TURBINE POWER PLANT 2X100 MW



Initiated in January 2022, this project confronted the significant challenge of ensuring completion prior to the G20 Leader's Meeting in November 2022.



JAN 2022

First Piling of Gas
Turbine Foundation
and Gas Turbine
Building



JUN 2022

Arrival of Gas
Turbine at
Pesanggaran from
Grati Pasuruan
Power Plant



JUL 2022

Start Installation of
Common System
and Start Individual
Commissioning of
Service Station
Transformer



AUG 2022

Commissioning of
Main Transformer
150 kV



SEPT 2022

First Energize of
150 kV Line and
First Firing of Gas
Turbine



OCT 2022

First Synchronize of
Gas Turbine and
Commercial of Date
Gas Turbine Power
Plant



TIMELINE 10 MONTHS JOURNEY
RELOCATION OF GRATI GAS TURBINE POWER PLANT



KEY & STRATEGIC WINNING POINTS

New Technology & Re-Engineering Adoption

Embracing cutting-edge equipment like the Hybrid Compact Switchgear (Hypact) not only streamlined procurement but also eased the mobilization and erection phases. Another innovative solution was the Re-Engineering of the Bolted Raw Water Tank, which remarkably reduced the construction time from a typical 3-month period to a mere 21 days.

Collaboration Cross Entity of Company Subsidiaries

The final products of Relocation of Grati Gas Turbine belong to PT PLN Indonesia Power – Bali Power Generating Unit. This project involves various vendors including PLN Enjiniring, PLN Pusat Sertifikasi, PLN Pusat Manajemen Proyek, PT Cogindo Daya Bersama, PT Unelec Indonesia, PT. PLN Indonesia Power, and PT. Rekadaya Elektrika.

Material Management

Raw material management was optimized through diversification of suppliers, coupled with expedited mobilization for high-priority materials.

POWERPLANT PROJECT PERFORMANCE

From the heart of Bali, our Grid System has risen, transforming its capacity, efficiency, and sustainability, ready to support the world's leaders at the G20 Summit. Our journey from local benchmarks to international excellence signifies not just our technical prowess but a steadfast promise to be a beacon of global collaboration and innovation.

BEFORE RELOCATION



Bali Grid System : Regional Responsibility

The Bali Grid System operated with a functional capacity of 900 MW, serving its regional commitments.



Unit Efficiency : Setting Local Standard

Historically, the power plant's operations were tailored to meet and exceed local industry benchmarks.



HSD Consumption : Traditional Energy Strategy

With an energy portfolio that incorporated 100 units of fossil fuels, our methods were in alignment with prior operational requirements.

AFTER RELOCATION



Empowering Bali: A Brighter Energy Future

Upgraded to 1100 MW, the system stands fortified and ready to support the G20 Summit's infrastructural demands, showcasing Bali's adaptability on the global platform.



Achieving Global Excellence

In the spotlight of the impending G20 summit, our endeavors have ensured that the plant consistently operates at an admirable 90% efficiency, reinforcing Bali's commitment to global standards.



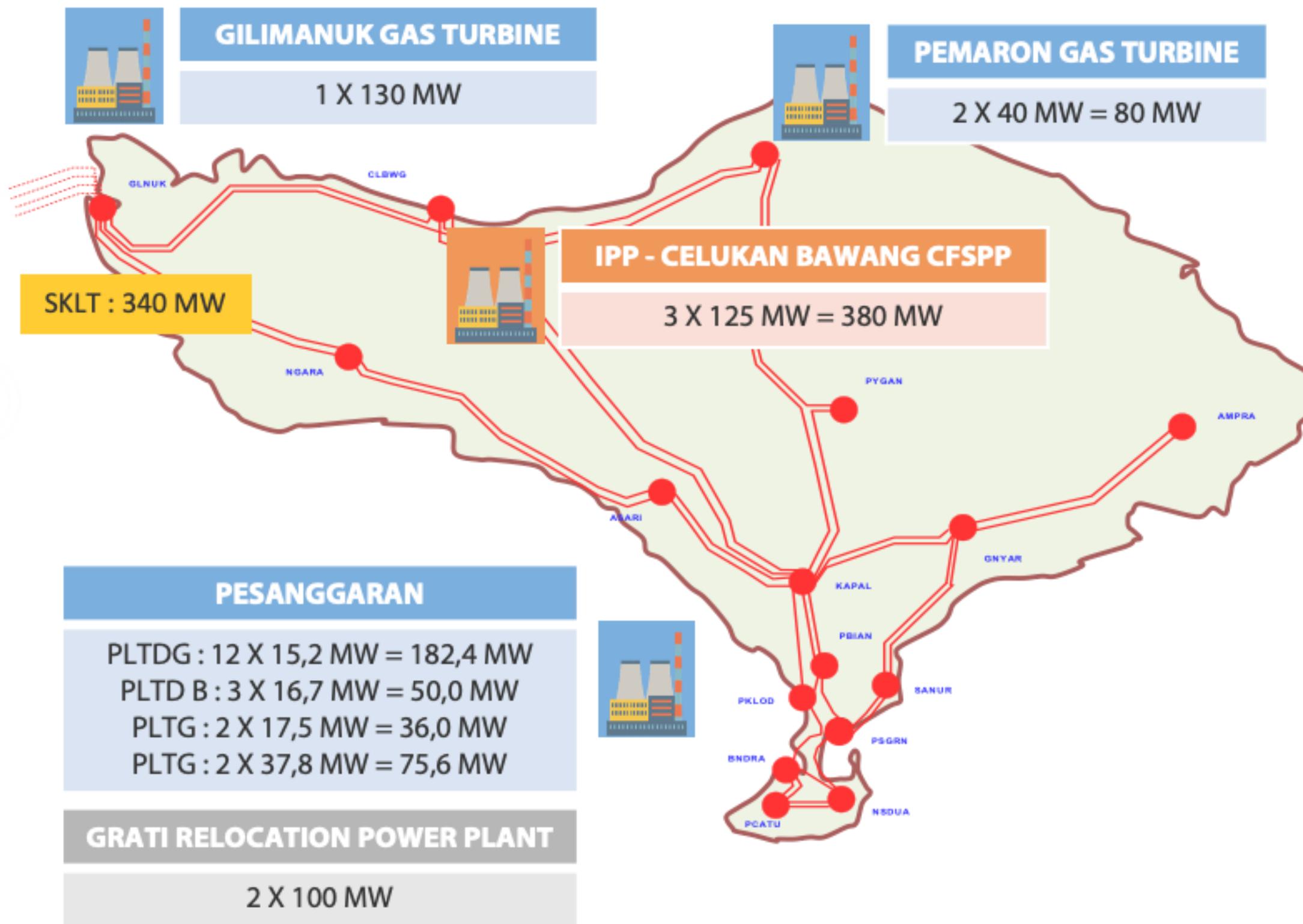
Embracing Global Sustainability

With the G20 Summit's emphasis on green initiatives, we've reduced our fossil fuel reliance by 10%, adapting to and echoing the global call for sustainable energy solutions.

THE BALI GRID SYSTEM: POWERING GLOBAL DECISIONS AT THE G20 SUMMIT

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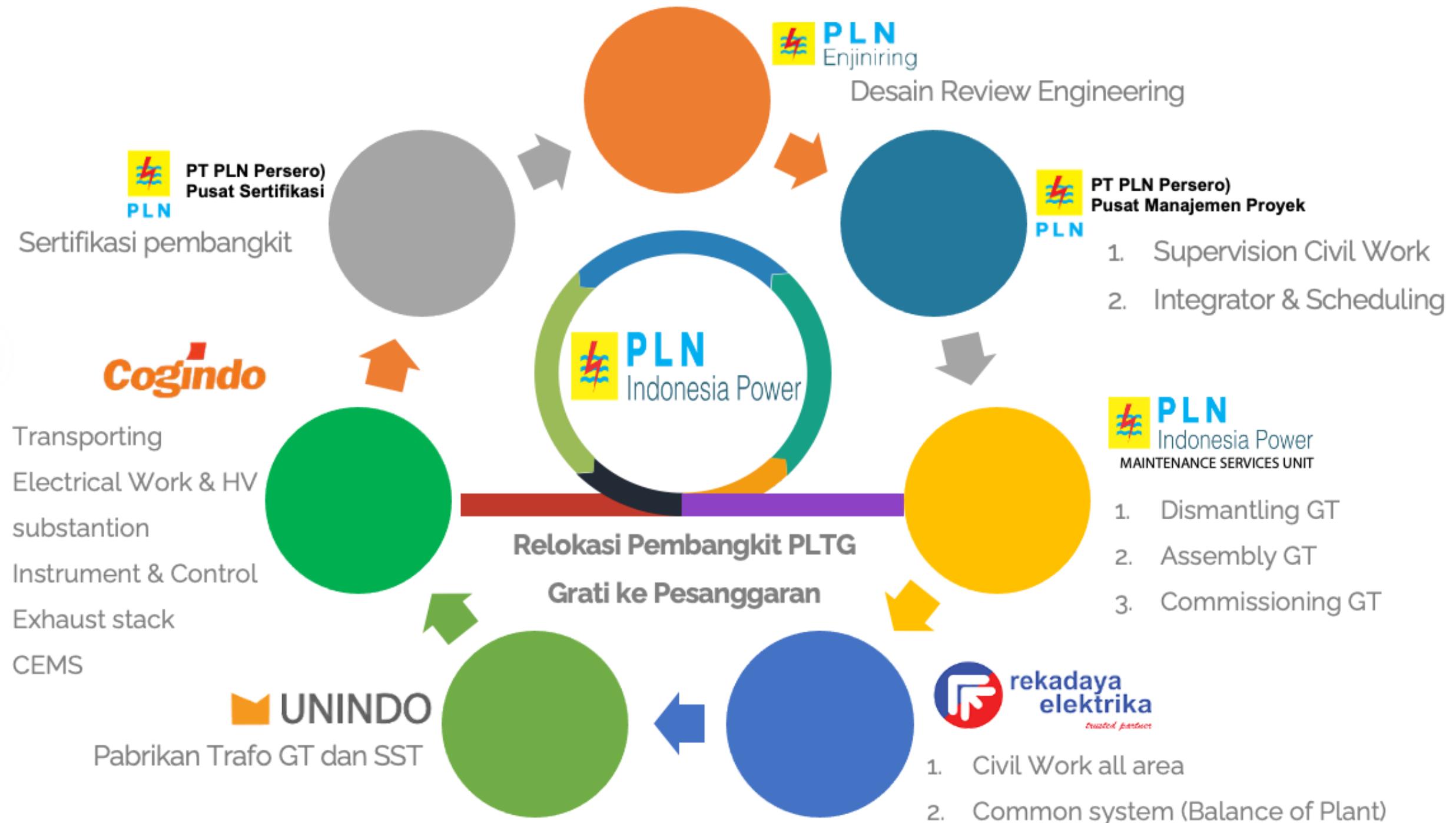


UNIFIED STRENGTH.

GLOBAL IMPACT.

POWERING THE G20 SUMMIT.

In this landmark project, unity and expertise converged as PLN Enjiniring, PLN Pusmanpro, PLN IP MSU, Rekadaya Elektrika, Unindo, Cogindo, and PLN Pusertif harmoniously synchronized their core strengths. Each entity, while distinct in capability, united with a shared vision, culminating in an unmatched synergy that propelled the project to success. This was more than just a collaboration; it was a testament to what can be achieved when collective determination meets global imperative..



THANK YOU

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