

# Leading thermal power plant producer powers up their operations by leveraging RheinBrücke's power plant analytics solution



# Client

TPCIL & Sembcorp Gayatri Power Projects Ltd are subsidiaries of Sembcorp Industries. As a leading energy, water and marine group operating across six continents worldwide, the company has an established energy portfolio. The company is out of Hyderabad, India, majority owned by Singapore's Sembcorp and has two 1320 MW coal fired thermal power plants with direct linkage to the port for coal import.



Source: [www.sembcorp.com/en/media/470111/sembcorp-industries-facts-figures-2016.pdf](http://www.sembcorp.com/en/media/470111/sembcorp-industries-facts-figures-2016.pdf)

## Business Challenges

As a leading thermal power producer, the company needs to take timely and accurate informed decision to enhance operational efficiency, optimize costs and capacity while operating in a safe & environment friendly manner.



Difficulty in harmonizing operational, financial, commercial and market data across the organization.



All the reporting activities are done manually.



Gaining deeper insights about each PPA's performance. As it requires highly specialized skills spending hours manually calculating each profit and loss for each operation. This creates a significant bottleneck.



Manual revenue and transmission charges calculation result in unavoidable errors and time delays.



Billing for each PPA's was generated manually.



Timely availability of data, documents, reports across location is not possible.



Maintenance of multiple revisions of documents was difficult.

# RheinBrücke Solution

RheinBrücke Power Plant Analytics solution helped to overcome the business challenges by leveraging Microsoft technologies and industry experts. The solution includes managing power purchase agreements, budgeting and forecasting, scheduling power generation, revenue calculations, billing along with different analytical dashboards such as Daily, monthly reports, reconciliations and trends. It enables the decision makers to foresee potential opportunities & threats, and formulate strategies to deal with them proactively.

## Solution Highlight



Automated calculation of revenue reconciliation and transmission charge calculation for each PPA's.



Powerful dashboards and reports of operational, financial, commercial and Market data at ease.



Self-servicing reporting tools to create own reports



Auto bill generation for each PPA based on the bill type -Energy Bill / Open access, and based on timeline.



Cost-Profitability analysis at Division / Organization Unit / Cost Centre levels performed at a click.



Instant alerts and notification.

## Solution Benefits



Automated revenue and transmission charge calculation for commercial manager, automated billing process.



Reduced penalty charges for each PPA's by timely alerts and notification.



Improved better understanding of the plant operations, market profitability of each PPA.



Better decision making by providing reports on key information so that senior management can make well-informed decisions based on the insights.



Improved understanding of operational trends, patterns, root cause with powerful dashboards.



# About RheinBrücke IT Consulting

RheinBrücke focuses on offering consulting technology and outsourcing solutions and services that enable clients to stay competitive and achieve quick growth and profitability. With operational headquarters in Cologne, Germany, the company has a strong focus on the Mid-Market, with a deep understanding of what it takes for them to succeed. RheinBrücke helps clients adapt to a changing marketplace by ensuring that their IT ecosystems are relevant, efficient and perfectly tuned.

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