



# Case Study

## Stack Preventive Maintenance Limay Power Plant, Philippines

### DATA AT A GLANCE

Chimney Height	100m
Type of stack	Reinforced Concrete
No. of platforms	5

### Structural Integrity



Cracks, concrete damage, and insulation issues were resolved to restore integrity and extend lifespan.

### Safety Excellence



Work at height and in confined spaces was completed incident-free, with full safety compliance.

### Minimal Disruption



The plant resumed operations without delays or post-maintenance issues.

## Project Overview

In early 2025, BEC was engaged by San Miguel Global Power to conduct maintenance and repair work on the environmental compliance chimney (smokestack) at the Limay Power Plant. This initiative was part of a proactive asset management strategy aimed at preserving structural integrity, operational efficiency, and environmental compliance across one of the country's most critical power generation facilities.

This was a structure originally built by BEC, and we were pleased to find the chimney still in excellent overall condition, requiring only minor repairs. A testament to the quality of its original design and construction.

## Challenges

Shutdowns are always challenging. Timely completion is critical to allow the plant to recommence operations without delay. This requires meticulous planning and early site preparation to ensure every stage, from access to restoration, is executed with precision.

Additional challenges included:

- Working at heights up to 100 meters
- Accessing confined internal platforms
- Maintaining safety compliance throughout execution



Surface preparation and re-coating



Concrete restoration to windshield



Realignment of cable tray

#### Owner

San Miguel Global Power

#### Client

San Miguel Global Power

#### Completion Date

April, 2025

## Detail of work by BEC

BEC deployed a specialist maintenance team to deliver a tailored repair plan across multiple elevations and structural components of the stack. Key interventions included:

- Surface preparation and re-coating of deteriorated paint areas for corrosion protection
- Concrete restoration on internal and external surfaces, including sealing of hairline cracks
- Repair and replacement of damaged protective insulation on key structural elements
- Cable tray cleaning to enhance safety and orderliness

The team applied a proactive approach ensuring that even minor signs of wear were addressed before they could impact performance.

## The BEC Advantage

The maintenance project was completed successfully and on schedule, with zero incidents and full client satisfaction. Key outcomes included:

- Extended service life
- Improved environmental compliance
- Enhanced operational safety

BEC's involvement helped the Limay Power Plant continue delivering reliable energy with renewed confidence in the condition and compliance of its critical infrastructure.

Looking for industrial maintenance solutions? Contact us:



#### BEC Group of Companies

c/o 18 Boon Lay Way #10-162 TradeHub 21 Singapore 609966  
 +(65) 6778 6858  
 sales@be-con.com  
 be-con.com

