

# CASE STUDY CEL II SIHANOUKVILLE CAMBODIA PROJECT



## Project Participants

Owner
Cambodia Energy II Co., Limited
Client
Nawarat (Cambodia) Co., Ltd
Chimney EPC Contractor
BEC Pte Ltd.
Lining System
SCR-TEN 2

## CHIMNEY DESIGN AND BUILD

CEL II SIHANOUKVILLE PROJECT



The 150MW CEL II Sihanoukville Power Plant was constructed in Stung Hav, Sihanoukville, Cambodia, and is the second coal-fired power plant in Cambodia to be owned and operated by Cambodia Energy Limited (CEL), a wholly-owned subsidiary of Leader Energy, a company based in Malaysia. Toshiba Plant Systems and Services Corporation (TPSC), a wholly-owned subsidiary of Japanese multi-national conglomerate Toshiba were appointed the main EPC contractor for this project.

## CEL II Sihanoukville Plant, Cambodia

The new 150MW plant is being built as part of an Independent Power Producer (IPP) project secured by Leader Energy in 2016. The power station will be owned and operated for a tenure of 30 years by Cambodia Energy Limited II (CEL II). It is being constructed adjacent to the existing 100MW CEL I power plant. The CEL I power plant comprises two 50MW coal-fired generating units that came online in November 2014 and March 2015 respectively.

## Detail of work by BEC

BEC was awarded the Design & Build package for the chimney comprising 1 x 3.90m internal diameter flue liner including slipform, heavy lifting of roof, floors, and flue, installation of insulation, external windshield painting, installation of internal rack and pinion hoist, AWLs, internal lighting, lightning conductor and earthing works.

## Challenges

- The remote location of this stack required importing all materials and equipment for the construction.
- Very limited site space was available to BEC.
- BEC's first project in Cambodia.

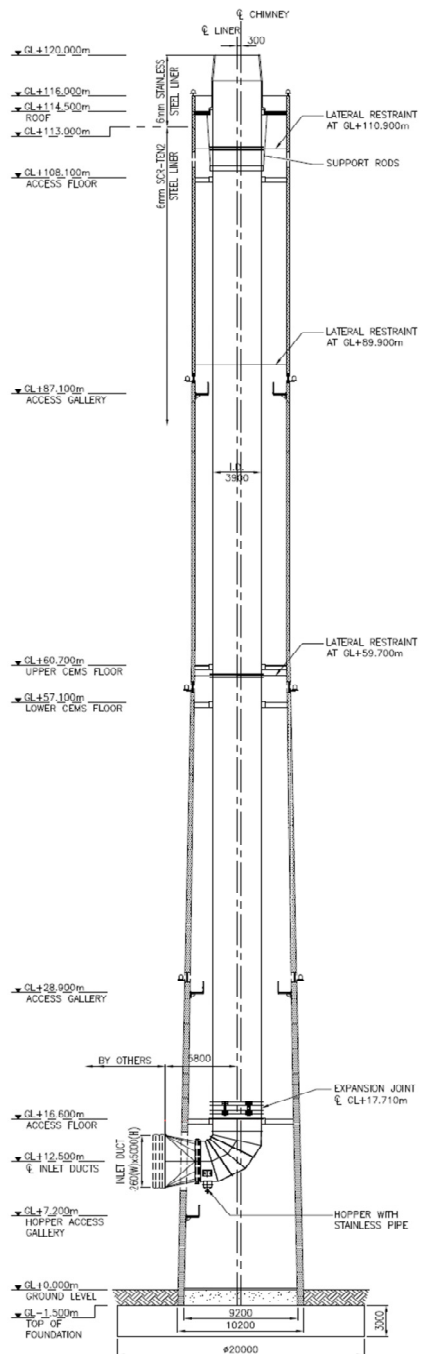


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## CEL II, CAMBODIA Stack elevation

Chimney Data	
Height	120m
No. of internal steel flue	1
No. of internal platforms	4
Diameter of internal flue	3.9m
External concrete diameter	10.200m – 7.900m
Piles	N/A
Foundation	20,000mm dia. x 3,000mm thk



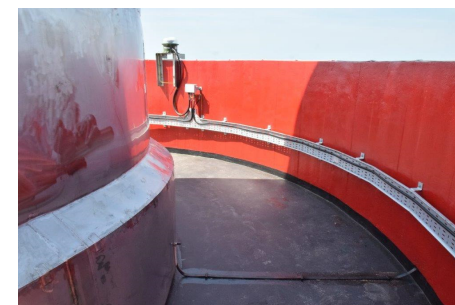
Stack Windshield Painting



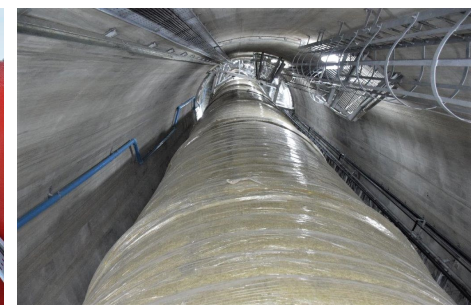
Supply & Installation of Rack and Pinion Hoist



Supply & Installation of Electrical Items



Stack Roof



Lifting & Installation of Liner Including External Insulation