



CASE STUDY

SENOKO STAGE II REPOWERING PROJECT

Project Participants

Owner

Senoko Power Ltd.

Client

Hitachi Plant Technologies Ltd.

Chimney EPC Contractor

Balanced Engineering & Construction Pte Ltd

CHIMNEY DEMOLITION

SENOKO STAGE II CHIMNEY DEMOLITION



Senoko Power Ltd. is the owner of the Senoko Power Station in Singapore. Hitachi Plant Technologies was the main contractor for this Project.

Senoko Stage II Repowering Project

To transform the Stage II, three oil-fired steam plants into two gas-fired combined cycle units that will significant reduce its greenhouse gas emissions.

Detail of work by BEC

BEC was awarded the contract for the chimney demolition works, which involves the complete removal of three internal steel liners, internal steel platforms, ladders, galleries, all M&E items, the cutting and removal of the complete reinforced concrete windshield.

Challenges

- Working inside a live power plant
- The demolition of the 181.4m height chimney occurred at the same time as the demolition of the boiler in very close proximity.



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ISO 9001:2008 CERT NO.: 625463

Senoko Stage II chimney

Chimney data:	
Height	181.4m
No. of internal steel flues	3
No. of internal platforms	3
Diameter of internal flues	4.3m
External concrete diameter (top)	11.7m
External concrete diameter (bottom)	17.0m

