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POWER ENGINEERING CONSULTING JOINT STOCK COMPANY 1 LAI CHAU HPP

Salient Features

RCC Gravity Dam Height 137.0 m, Crest Length 611 m RCC 2 M.m ³
Catchment Area 26,000 km ² Life Storage 710.9 M.m ³
max. Discharge 35'077 m ³ /s

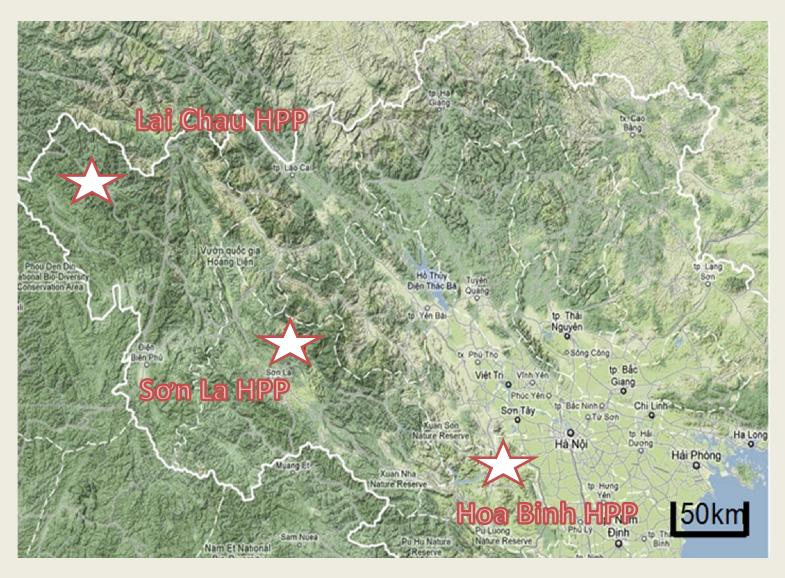
Powerhouse

3x 400 MW Francis, total 1'200 MW





POWER ENGINEERING CONSULTING JOINT STOCK COMPANY 1
PROJECT LOCATION





DEVELOPMENT OF DA RIVER





Design Time Line

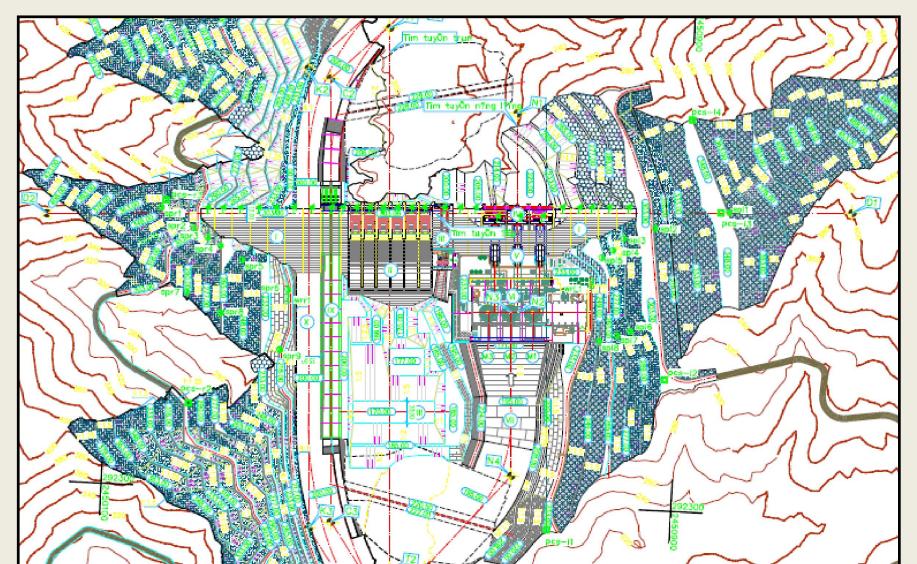
2009	2010	2011	2012		2013	2014	2015
Feasibility and Basic Design Report (PECC1)							
	Technical Design Stage (PECC1 plus RCC Dam design AF-C)						
				Approval of Technical Design by Higher Authorities			December: Unit 1 generation
	Drawing Design and Main FST						
					Start of RCC Construction 03/13		
	Start excavation 2010 - Construction of Diversion Excavation of Powerhouse Construction of RCC Dam etc						

RCC dam is designed to the requirements of both, International Standards & Vietnamese Standards



Introduction

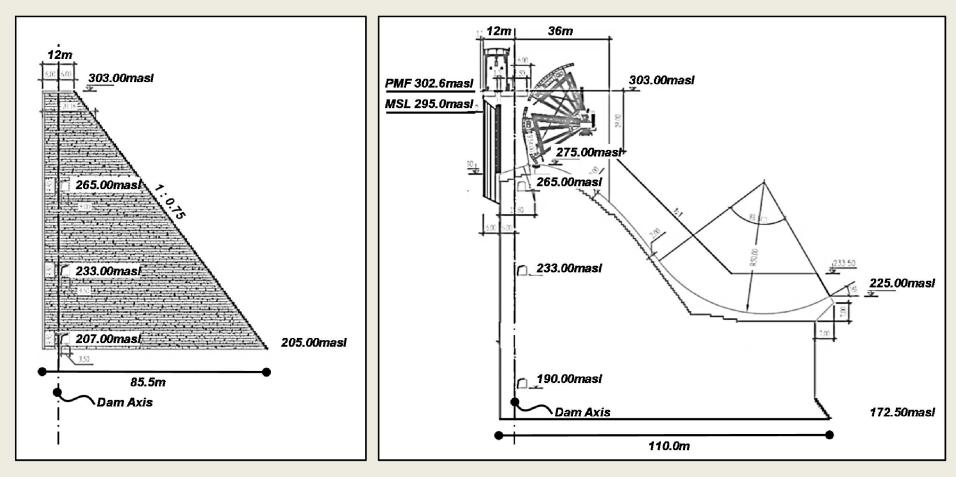
Project design





Introduction

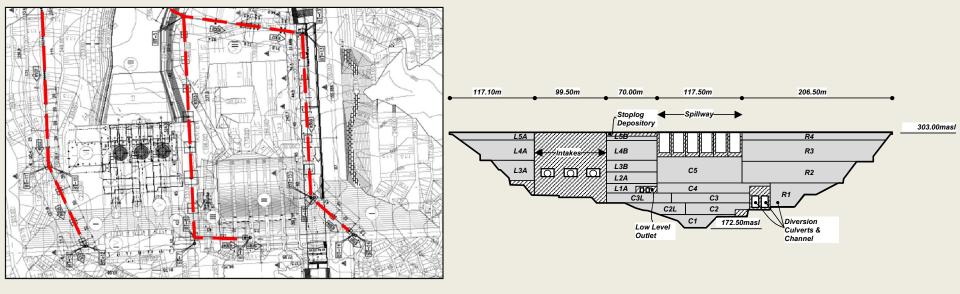
RCC gravity dam design





Challenges in the dam construction

Layout, block arrangement, programme



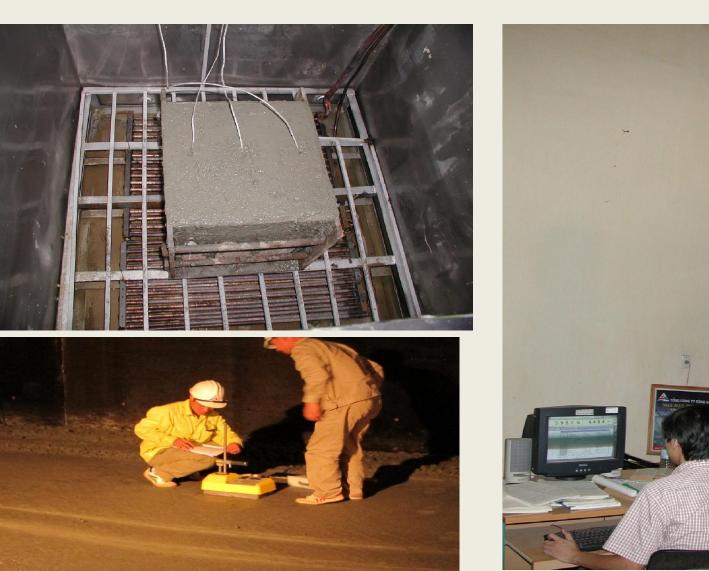




Investigation prepared by PECC1 since 2004



EVNPECC1 POWER ENGINEERING CONSULTING JOINT STOCK COMPANY 1 RCC Testing including mix design in laboratory and full trial embankment test prepared by PECC1





Starting construction of auxiliary works at the site since 2010





NPECC1 POWER ENGINEERING CONSULTING JOINT STOCK COMPANY 1 Completing, diversion culvert on right bank and river closure stage 1 on 24th April 2012





RCC placement at block C1 and block C2





Challenges in the dam construction

Foundation & Son La reservoir





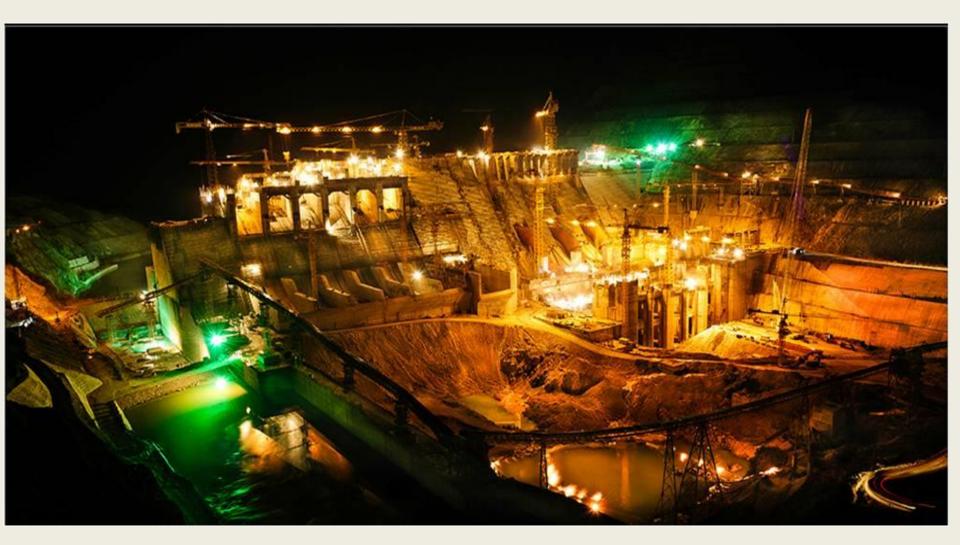
Low Level Outlet and Intake







Overview of the project during construction at the night in Dec 20





Overview of the project when RCC placement is completed with maximum placement rate to lift RCC layer of 27.3m/month





Overview of the project before impounding reservoir in June 2015 after official construction time of 19 months





Upstream view before impounding reservoir





Downstream view before impounding reservoir





Spillway operated after impounding reservoir in flood season in 2015





Overview of the project after impounding reservoir and before generating unit 1 in Dec,. 2015. Unit 2 and 3 will be generated power and the project will be completed in 2016





Artist's impression

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CONG TRINH THỦY ĐIỆN LẠI CHÂU

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