

HEPCO seminar

Edl and Laos Hydro Power Development

“Nam Ngum 2 Hydroelectric Power Project.”

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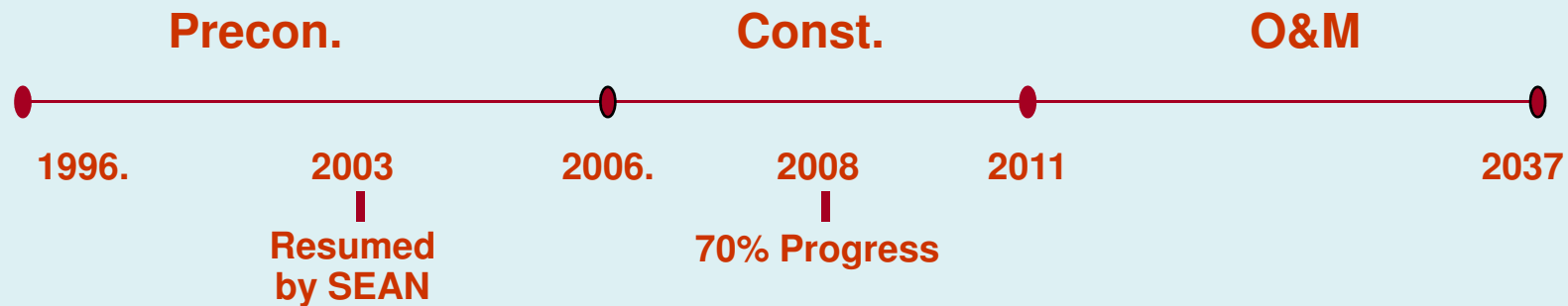
Abstract

- **The presentation covers the project highlight together with the main activities during its development timeframe.**
- **Roles and responsibilities of all major stakeholders will be elaborated.**
- **More importantly, the key factors driving the success of the project are clarified,**
- **Aiming to be an example of the international concession development scheme.**

1. Project Highlights

- International concession hydropower project
- Mutual benefits to both Lao PDR and Thailand
- **Large scale**
 - 180 m. high dam (CFRD)
 - 3X205 MW. Installed capacity
 - 230-500 kV transmission
 - Environmental impacts mitigation
 - 760 M\$ project cost
- State of the art technology

2. Main Activities during Development Timeline



Preconstruction

- Feasibility Study, EIA, SIA
- Conceptual Design
- Technical Specification and drawings
- Contractual arrangements on CA, PPA, CFA, EPC

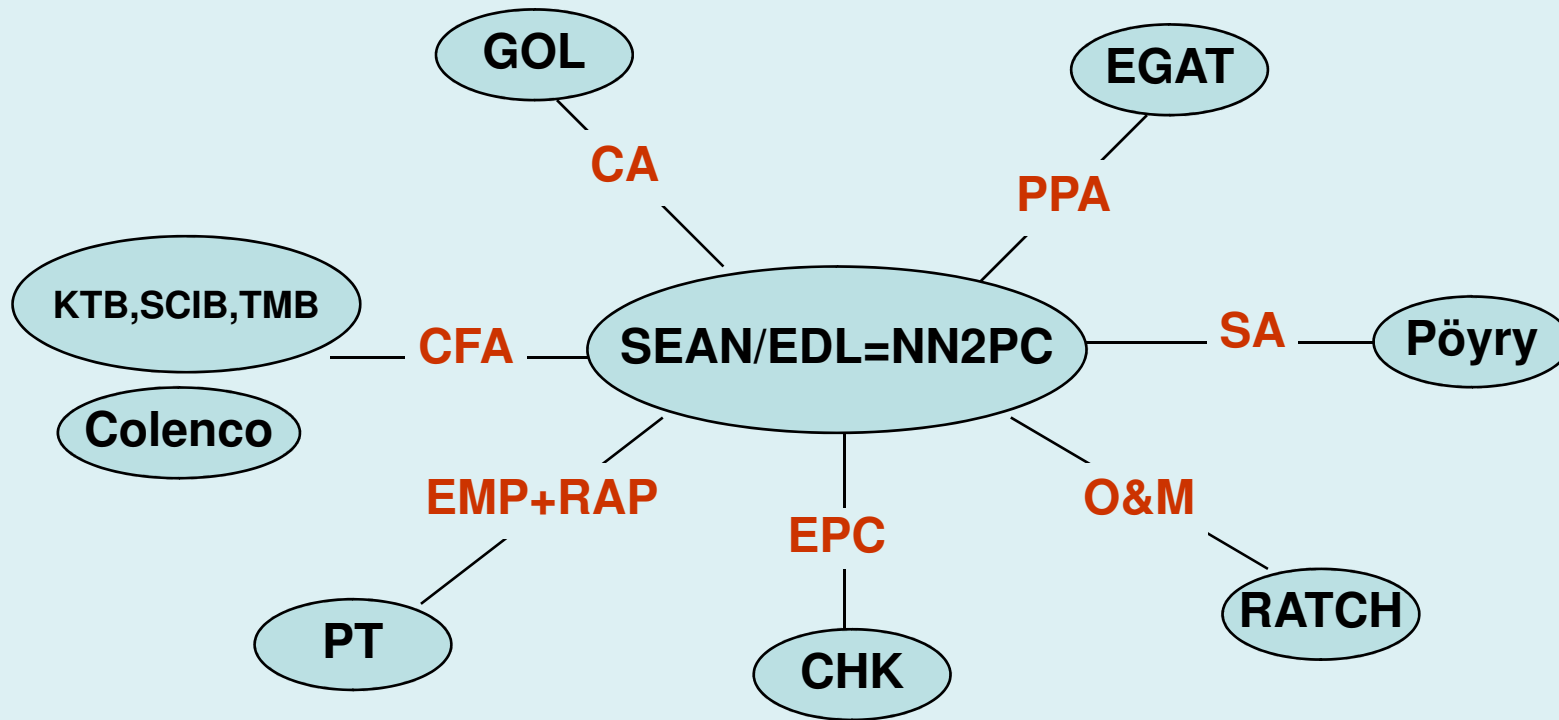
Construction

- Civil work
- Hydro-mechanical work (Gates and Penstock)
- Electro-Mechanical work (Turbine, Generator & BOP)
- Transmission System
- Associated works
- Environment & Resettlement.
- **Quality, Schedule, Cost focused.**
- **Commissioning on performance and efficiency**

O & M

- Outsource

3. Roles and Responsibilities of major Stakeholders



4. Key Success Factors

- **Balanced benefit sharing**
 - Full support from GOL, EGAT
 - **Management system and skill**
 - Engineering and Environmental expertise
 - HR + Equipment
 - **Financial arrangement**
 - Collaboration from all stakeholders
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