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### Technical Tour Agenda

**Location:** Lam Takong Jolabhavadhana Hydro Power Plant at Nakhon Ratchasima, Thailand

**Fee per Person:** - Early Bird Rate: 75 USD (until 15 Feb 2019)  
- Regular Rate: 85 USD (after 15 Feb 2019)

**Participation:** Minimum of 30, Maximum of 40

**Website:**

[https://www.egat.co.th/index.php?option=com\\_content&view=article&id=2449&Itemid=117](https://www.egat.co.th/index.php?option=com_content&view=article&id=2449&Itemid=117)

**Description:**

Lam Takong Jolabhavadhana Hydro Power Plant was constructed due to the higher demand of electricity which resulted in the construction of the first reversible pump storage hydropower plant in Thailand. The first phase is Lam Takong Hydro Power Plant, competent for producing 500 megawatts of energy by using 2 generators. The principle behind its operation lies within the use of electricity to pump the water from the dam and stores it in Khao Yai Thiang and then releases it for electric production when the demand increases. This helps reduce the amount of CO<sub>2</sub> for more than 260,000 ton per year.

The second phase of operation is Lam Takong Wind Turbine. It is the most promising site for electric production in Thailand. EGAT installs 12 wind turbines capable of producing 24 megawatts of energy. EGAT then builds this technology and converts it to be Wind hydrogen hybrid system, capable of producing 300 KW of energy. This process will help reducing the energy production from fossil fuel for 109.26 million liters and reduce the CO<sub>2</sub> production by 264,148 tons per year. It corresponds with the government policy of sustainability and also contributes to maximize the benefit from both the plant and the society due to the reduction of pollution and environmental impacts the society receiving from electric production.

**Feature:**

This tour will show you the ingenuity of how they are able to adapt and manage the wind energy production to meet people's demand and how they adapt new technology for real usage in the plant.

- The underground tunnel: This underground tunnel's depth is approximately 350 meters. It comprises 2 water generators needed to pump water for electric production. The structure can withstand the earthquake up to 7 on the Richter scale. Also, the tunnel is not located on the focal point of the fault which makes it safer for the tunnel to receive less impact from the earthquake.

**Remarks:** - Safety helmets are provided on site.  
- Casual dress is recommended due to some outdoor activities.

## Itinerary

**Date:** Wednesday 20th March, 2019

**Time:** 8:00 - 18:00 hrs. (10 Hours)

Time	Activities
8:00 hrs.	Group departing from Bangkok International Trade and Exhibition Centre (BITEC)
10:30 hrs.	Group arrived at Lam Takong Jolabhavadhana Hydro Power Plant at Nakhon Ratchasima
10:35 – 11.20 hrs.	Joining company profile, project introduction and safety briefing
11.20 – 12.20 hrs.	Having Lunch (Lunch box provided)
12:20 – 12.40 hrs.	Observing underground power plant and control room
12:40 – 13.00 hrs.	Group traveling to EGAT Lamtakong Hydrogenics and learning center
13.00 – 14.00 hrs.	Observing on Wind Hydrogen Hybrid Building, control room and learning center
14:00 – 14.30 hrs.	Observing Wind Turbine
14:30 – 18:00 hrs.	Group returning to Bangkok International Trade and Exhibition Centre (BITEC)

## Contact Person:

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