



## Technical Site Visiting 15/11/2014

**Date:** November 15<sup>th</sup>, 2017  
**Time:** 08.00 a.m. – 05.00 p.m.  
**Starting place:** Modena Hotel, Bangkok

### Option 1 Program (for 40 persons)

09.30 a.m. – 12.00 a.m. Sanam Chai Station, Bangkok  
13.30 p.m. – 15.00 p.m. SUNNY BANGCHAK, Ayutthaya

### Option 2 Program (for 40 persons)

09.30 a.m. – 12.00 a.m. Energy Conservation Building in Honour of His Majesty the King,  
Pathum Thani  
13.30 p.m. – 15.00 p.m. SUNNY BANGCHAK, Ayutthaya

The detail of each locations are as follow:

## 1. Sanam Chai station

The Sanam Chai underground station of the Blue Line from Hua Lamphong to Bang Khae, when completed, will be one of its kind, unique and different from the other underground train stations.



The Sanam Chai station which is within the Rattanakosin Island zone was purposely intended to showcase Thai traditional architecture and to be turned into another tourist attraction for Bangkok besides serving train commuters.

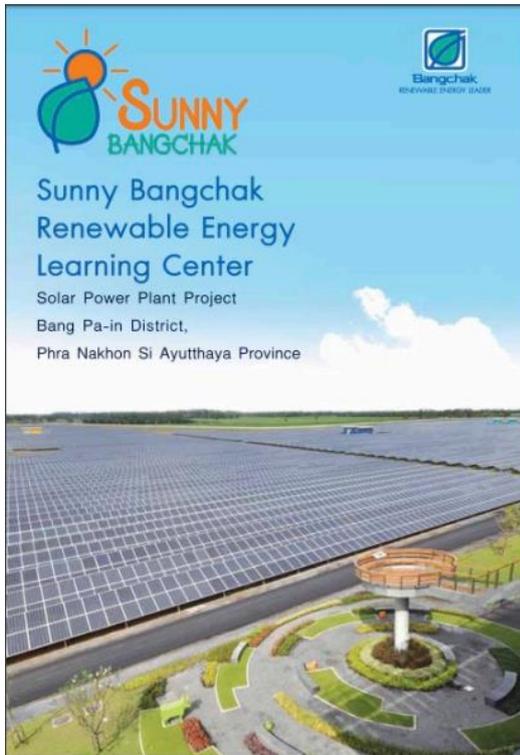
The floor on which the ticket selling booth is located was designed and decorated in a fashion that exudes Thai identity. Designed by Associate Professor Pinyo Suwankiri, national artist in architecture, huge white square-shaped pillars which were delicately decorated are lined on both sides of the passage way to the station. The ground floor and its walls were modelled after ancient walls with tiles in Pikul flower pattern.

the Sanam Chai station is in close vicinity to the Grand Palace, the station is built to look grand with historic and cultural values.

Besides being designed to be grandiose, practicality and usage of the station were not missed out. For instances, inflammable materials were used in the construction and there are no sharpened corners which may pose a hazard to commuters.

Another real engineering challenge is the underground water as the station is close to the Chao Phraya river and there are also many artifacts buried underground.

## 2. SUNNY BANGCHAK



The Sunny Bangchak is located on Highway 2048 in Tambon Bang Krasan, Bang Pa-in district, Ayutthaya province. Just five kilometers from the exit of the Chaeng Watthana – Bang Pa-in expressway, the project is conveniently accessible. Covering nearly 500 rai of land, it sits next to the Biodiesel Production Facility and the Bang Pa-in Oil Distribution Center of the Bangchak Public Company Limited.

The Solar Power Project of Sunny Bangchak has the capacity to produce 38 megawatts of electricity for commercial distribution. The project sells electricity to the Provincial Electricity Authority and the Electricity Generating Authority of Thailand.

The Sunny Bangchak Project has won the Crown Standard certification from the Thailand Greenhouse Gas Management Organization (Public Organization) because it operates with the Corporate Social Responsibility and serves well as a Clean Development Mechanism.

### Benefits of the Project

- The project boosts Thailand's electricity security, reduces the country's dependence on fuel import for electricity generating, and increases its self-reliance in line with the Sufficiency Economy Philosophy. Boasting the annual capacity to produce 70 million electricity units, the project can cut down on the import of coal by 40,000 tons each year.
- Solar power provides clean energy. Friendly to the environment, it reduces carbon-dioxide emission by 38,000 tonnes a year. Such reduction can be compared to a 26,000-rai forestation.
- The project creates jobs for locals. It employs solar-panel cleaners, electricians, engineers, etc.
- The project serves as a learning center for youths and people interested in alternative energy.
- The project is a new attraction in Ayutthaya province.

### 3. Energy Conservation Building in Honour of His Majesty the King

Energy Conservation Building in Honour of His Majesty the King is the celebration on the King on Throne Project on occasion of the fifty year anniversary of His Majesty the King's coronation. There was a ceremony on laying the foundation stone on 12th December 1995 at TechnoThanee, Klong 5 District, Amphoe KlongLuang in PathumThanee. This building design



and construction adopted the advanced energy conservation technology by natural system of Thailand climatic weather and cooling environment. The design of building internal system and material selection that capably block the external heat and moisture, hence these minimize the building energy use by maintaining still the value and image of architecture.

#### **Building Construction Objectives**

1. To be a Centre of the national energy conservation activities, for industry, buildings, residences, communication and transport.
2. To be a building sample capably of better energy conservation than the standard required for typical designated building and capable to display clearly the advantages gained from energy conservation, hence being the guidelines to other buildings in Thailand.
3. To be a display center for energy conservation technology and information and pupils, students and other people.
4. To be the technology transfer and training center for energy conservation.