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### Technical Tour Agenda

**Location:** SCG (Siam Cement Group) Floating Solar Farm, Rayong and Provincial Electricity Authority (PEA) SCADA (Supervisory Control and Data Acquisition), Chonburi, 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.scgchemicals.com/en/news-media/media/video/48>  
<https://www.pea.co.th/c2/Home>

#### Description:

##### SCG (Siam Cement Group) Floating Solar Farm:

SCG Chemicals' floating solar farm is eco-innovation earmarked for usage in the industry. Also, the solar cell buoy lifespan can last for more than 25-30 years. The capacity of this technology produces 2 MG of power in 7 square kilometers radius. The production cost is only 2.5 bath per unit which is 1.5 bath cheaper than conventional means. In the near future, this technology will be adapted for a more alternative energy source within the corporation and also expand its technology to the industries who are interested in this technology. The first floating solar solution is another eco-innovation that SCG Chemicals has developed to contribute to environmental conservation efforts and served as a new solution for those wishing to maximize the use of their underutilized space. More importantly, this innovative product promises to open up new opportunities for the production of clean energy from solar power in Thailand.

#### Feature:

SCG floating solar farm at Rayong is the pioneer in floating solar technology in Thailand. It is more efficient than any conventional solar cell technology.

- Floating Solar buoy: Experience the new way of maximizing the use of underutilized space by seeing the electric production process placed on the water.
- Control center: Seeing the operation firsthand of how floating solar technology is better than conventional solar cell technology and how it regulates the energy and cycles it around the factory to power all the operation.

**Description:**

Provincial Electricity Authority (PEA) SCADA (Supervisory Control and Data Acquisition):

PEA SCADA at Chonburi is the first place that uses this operating system. This plant is capable of producing 3000 MW of power for many important industry such as, Chonburi, Rayong, and Chachoengsao. It works by gathering the information regarding the system such as location of the pipeline leak if it occurring, transferring the information back to a central site, alerting the home station about the leak, carrying out necessary analysis and control such as determining the critical leak, and displaying the information in a logical and organized fashion by unmanned substation. SCADA systems can be relatively simple, such as the one that monitors environmental conditions of a small office building, or incredibly complex, such as a system that monitors all the activity in a nuclear power plant or the activity of a municipal water system. SCADA regulates and operates with other station by using optical fiber as a means of communication. SCADA system has been developed to cope with any unforeseen contingency such as, blackout. The case study has been known to happen from time to time. With the SCADA system, it enables the system to detect the malfunction and notify the personnel or solve it instantly and promptly.

**Feature:**

PEA SCADA at Chonburi is the first place in Thailand that use SCADA technology to monitor the electrical system.

- Control room: The essence of the whole operation can clarify about how the system operate and demonstrate the measure system when coping with malfunction and so on.
- Conference room: This room serves as a demonstration room in case of an emergency. They will demonstrate how to handle with each situation via creating the role play of incidents such as, the blackout, fire hazard and others in which utilize SCADA system as a control module for the test. These tests serve as a perfect example on how SCADA handle with the emergency situation if it occurs.

**Remarks:**

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

## Itinerary

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

**Time:** 8:00 - 17:30 hrs. (9.5 Hours)

Time	Activities
8:00 hrs.	Group departing from Bangkok International Trade and Exhibition Centre (BITEC)
10:30 hrs.	Group arrived at RIL Industrial Estate
10:30 - 11:30 hrs.	Joining company profile, introduction and presentation of the following topic (1 hour): <ul style="list-style-type: none"><li>- Solar floating buoy</li><li>- Component</li><li>- Submarine Drone demonstration for floating solar maintenance</li><li>- Base of operation</li><li>- Next phase of operation</li><li>- Q &amp; A Session</li></ul>
11:30 hrs.	Group traveling to SCG Floating Solar Farm
11:50 hrs.	Group arrived at SCG Floating Solar Farm (20 minutes)
11:50 – 12:20 hrs.	Group observing Floating Solar Buoy (30 minutes)
12:20 hrs.	Group traveling to PEA SCADA Chonburi (Lunch box provided en route)
13:50 hrs.	Group arrived at PEA SCADA Chonburi (1.30 hours)
13:50 – 14:50 hrs.	Joining presentation regarding SCADA system (1 hour)
14:50 – 15:20 hrs.	Observing SCADA electric control room and simulation (30 minutes)
15:20 – 17:30 hrs.	Group returning to Bangkok International Trade and Exhibition Centre (BITEC) (2.20 hours)

### Contact Person:

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