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**Speaker 1**

**Full Name** : Mr. Kawin Vanijdee  
**Company/Organization** : i APC Consulting Co., Ltd.  
**Current Position** : Managing Director / Tech Advisor  
**Working Experience** : 24 years



**Speaker 2**

**Full Name** : Mr. Natchanon Naruesatyan  
**Company/Organization** : Thai Plastic and Chemicals Public Co., Ltd. (TPC)  
**Current Position** : Batch Process Focused Improvement Leads



**Title of Presentation:**

**Digital Technology Deployment for Batch Process Industries (TPC/SCGC/i-APC)**

**Presentation Abstract** :

Batch Optimal Control (BOC) Solution is specifically designed for PVC batch polymerization process improvement at Thai Plastic & Chemicals Public Co., Ltd. (SCGC/TPC). This solution enhanced the capability to automatically and precisely control each batch production along with the improvements of both process performance and the energy efficiency to achieve the top quality of the products, enhance process efficiency, and maximize productivity and safety.

Another key advantage of the BOC solution is an ability to automate the batch sequence at the optimum plant conditions with an ability to avoid process constraints seamlessly support each



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other to improve the precision of the process control performance while maximizing the productivity wherever possible via intelligent digital manufacturing solutions for batch process.

This initiative is a part of long-term digital transformation roadmap of SCGC/TPC which is well aligned with one of the Key Strategies for Moving Toward Chemical Business for Sustainability per Sustainability through Innovation direction of SCGC.