Presentation Schedule

Date	Presenter	Presentation Topic
Feb 11 (Wed)	**Govind Murali** (Process Engineering Dept.)	**Revolutionising e-Methanol Production Process : Integrating TOYO's g-Methanol™ with *SUPERHIDIC*™ Innovative Energy-Saving Distillation System**
		In this session, we will introduce two of TOYO`s two of TOYO`s core technologies – g-Methanol™, TOYO's proprietary e-methanol production technology, and ***SUPERHIDIC***™, an innovative high-efficiency distillation system. We will also highlight the impact of integrating the two technologies for the production of low carbon, energy efficient e-methanol. This integrated process is expected to support compliance with emerging international regulations for methanol as a marine fuel, including those under FuelEU Maritime and frameworks being discussed by International Maritime Organization (IMO). **FuelEU Maritime:** A regulation introduced by the European Union (EU) to promote the decarbonization of fuels used in maritime transport. European Commission - FuelEU Maritime: https://transport.ec.europa.eu/transport-modes/maritime/decarbonising-maritime-transport-fueleu-maritime_en
Feb 11 (Wed)	**Hiroo Kunii** (Process Engineering Dept.)	**Toward Carbon-Neutral Urea Production: A Comprehensive Evaluation of g-Urea™ Complex**
		In this presentation, we will introduce in-depth overview of g-Urea™, TOYO's carbon-neutral urea production process. We will present a comprehensive economic analysis between conventional fossil-fuel-based urea production and g-Urea™, followed by an evaluation of the overall energy balance of the integrated urea production complex, including a green

		ammonia plant, In addition, we will discuss future prospects for future deployment and social implementation. This presentation will also examine how g-Urea™ can support compliance with the European Union's Carbon Border Adjustment Mechanism (CBAM). **g-Urea™**: A carbon-neutral urea production process utilizing renewable energy and carbon-neutral feedstock such as green ammonia and CO_2 captured through Direct Air Capture (DAC). **CBAM (Carbon Border Adjustment Mechanism)**: A mechanism under which the EU applies a carbon price to imported products equivalent to that imposed on products manufactured within the EU under the EU Emissions Trading System (EU ETS). Following a transitional phase starting in October 2023, CBAM will be fully implemented in January 2026. European Commission - CBAM: https://taxation-customs.ec.europa.eu/carbon-border-adjustment-mechanism_en