

Presentation Schedule

Date	Presenter	Presentation Topic
Feb 11 (Tue)	Kei Fukuzawa (Next-G Technology & Application Division)	MethaMaster™ and MethaDynamics™ - TOYO's Digital Solutions for g-Methanol™ Process
		Introduction of two digital solutions developed for TOYO's e-methanol production process, g-Methanol™ <ul style="list-style-type: none"> ● MethaMaster™: A design tool for e-methanol plants powered by variable renewable energy sources, providing optimal plant configurations for feasibility studies. ● MethaDynamics™: An operational support tool that automates operation planning and control to adapt to variable power sources.
Feb 11 (Tue)	Akiko Ushifusa (Next-G Technology & Application Division)	Advancements in TOYO's DX-PLANT™
		<ul style="list-style-type: none"> ● TOYO has been continuously enhancing DX-PLANT™, a digital transformation solution designed to maximize profitability and minimize costs for plant owners. ● Since introducing the solution lineup at Nitrogen+Syngas 2021, TOYO has further developed DX-PLANT™ to provide advanced technical advisory services. ● This presentation will showcase the latest advancements in DX-PLANT™ services since the 2021 conference.
Feb 12 (Wed)	Kazuki Kamikubo (Process Engineering Dept.)	TOYO Decarbonizes Urea Production for Modern and Vintage Urea Plants, and Next-Gen g-Urea™ Plants
		Overview of three key initiatives in decarbonizing urea production : <ol style="list-style-type: none"> 1. Performance of the latest project applying ACES21-LP™ process. 2. Retrofitting and replacing legacy equipment in older processes (Total-Recycle and ACES processes) and expected CO₂ reduction effects. 3. Economic analysis of g-Urea™, next-generation urea production process utilizing carbon-neutral feedstocks (green ammonia, DAC-derived CO₂) and renewable energy.