

Workshop between Clean Hydrogen Partnership and NEDO on Hydrogen/Ammonia Combustion Technologies 2nd Information Exchange - 26 March, 2025

AGENDA

Time (JST)	Information Exchange Workshop on H ₂ /Ammonia Combustion Technologies
09:00 - 09:30	Welcome and opening
	Master of Ceremony - Mirei Isaka, Director, Hydrogen and Ammonia Dept., NEDO
Opening	Japan - Akiko Iimura, Executive Director, NEDO EU - Valerie Bouillon-Delporte, Executive Director of the Clean Hydrogen Partnership
Special Remarks	Japan - Noriya Udagawa - Director, Hydrogen and Fuel Cells Strategy Office, Hydrogen and Ammonia Division, Energy Efficiency and Renewable Energy Department, Agency for Natural Resources and Energy, Ministry of Economy, Trade and Industry (METI)
	General Introduction on NEDO and JU activities: Japan - Mirei Isaka, Director, Hydrogen and Ammonia Dept., NEDO EU - Mirela Atanasiu, Head of Unit Operations and Communications, Clean Hydrogen Partnership
09:30 - 10:10	Keynote presentations
09:30 - 09:50	Japan - Professor Hideaki Kobayashi, Institute of Fluid Science, Tohoku University, "Overview of hydrogen/ammonia combustion technologies in Japan"
09:50 - 10:10	EU - Andrea Gruber, Senior Research Scientist, Sintef "Recent advances and remaining challenges for clean and efficient carbon-free combustion in heat and power applications"
10:10 - 12:50	Session 1: Combustion Technologies for Gas Turbines
10:10 - 10:30	1.1 Small to mid-sized gas turbines
10:30 - 11:00	Japan - Masahiro Ogata, Senior Staff Officer, Hydrogen Power Generation Project Development Office, Energy Solution Business Div., Energy Solution and Marine Engineering Company, Kawasaki Heavy Industries, Ltd. EU - Egidio Pucci, Engineering Combustion Manager, Baker Hughes - HyPowerGT project Roy Hermanns, Senior Scientist, Eindhoven University of Technology - HELIOS project
11:00 - 11:20	1.2 Large gas turbines
	Japan - Satoshi Tanimura, Chief Engineer, Gas Turbine Engineering Department, GTCC

11:20 - 11:40	Business Division, Energy Systems, Mitsubishi Heavy Industries, Ltd.
11:40 – 11:55	<p>EU - Vasileios Stefanis, Head New Units & Service Technologies, Ansaldo Energia - FLEX4H2 project</p> <p>Ertan Yilmaz, Portfolio Manager Hydrogen & Green Fuels, Siemens Energy - HyCoFlex project</p>
11:55 - 12:35	<p>1.3 Ammonia combustion for small to mid-sized gas turbines</p> <p>Japan - Masahiro Uchida, General Manager, Energy Conversion Dept., Technology Platform Center, Corporate Research and Development Div., IHI Corporation</p> <p>EU - Luca Feola, Project Officer, Clean Hydrogen Partnership - ACHIEVE project</p> <p><i>Notes: R&D activities in ammonia combustion for small to mid-sized gas turbine (e.g. 100% ammonia fuel gas turbine (up to tens of MW class))</i></p>
12:35 - 12:50	Q&A and Joint discussion - Areas and actions for collaboration, next steps Moderated by Luca Feola, Project Officer, Clean Hydrogen Partnership
12:50 - 13:50	Lunch
13:50 - 14:45	Session 2: Combustion Technologies for Gas Engines
13:50 - 14:30	<p>Japan - Sekai Miyamoto, Senior Researcher, Research Section 3, Energy System Research Dept., Technical Institute Corporate Technology Div., Kawasaki Heavy Industries Ltd.</p> <p>EU - Kenichi Yasuno, Business Operation Manager, North East Asia (Japan/Korea), INNIO Group</p>
14:30 - 14:45	Q&A and Joint discussion – Areas and actions for collaboration, next steps Moderated by Mirei Isaka, Director, Hydrogen and Ammonia Dept., NEDO
14:45 – 15:15	Coffee Break
15:15 - 16:55	Session 3: Combustion Technologies for Industrial Furnaces, Boilers
15:15 - 15:55	<p>3.1 Burners for alternative fuels in thermal power plants/ industrial furnaces</p> <p>Japan - Ryo Hanaoka, General Manager, Combustion Engineering Gr., Life Cycle Management Dept., Carbon Solution Business Unit, IHI Corporation Yoshiyuki Hagiwara, R&D Planning Senior General Manager, Taiyo Nippon Sanso Corporation</p>
15:55 - 16:25	<p>EU - Jörg Leicher, Team Manager for Numerical Simulations at GWI, H2AL project Ivan Vaiani, Combustion & Material Processing Coordinator, Nippon Gases Industrial, H2AL project</p>
16:25 - 16:45	<p>3.2 Hydrogen combustion boilers</p> <p>Japan - Noboru Kamakura, Executive Advisor, MIURA CO., LTD.</p>

16:45 - 17:00	Q&A and Discussion – Areas and actions for collaboration, next steps Moderated by Mirela Atanasiu, Head of Operations and Communications, Clean Hydrogen Partnership
17:00 - 17:20	Closing remarks
	EU - Marta Olender, Counsellor, Delegation of the European Union to Japan Luigi Crema, President, Hydrogen Europe Research Japan - Akiko Imura, Executive Director, NEDO