



DAY ONE (Tuesday, 15 November)

7.30am onwards

Delegate check-in, Phoenix Convention Center (Outside Room W-212AB)
Please have proof of COVID vaccination or negative COVID test ready to present at check-in.

Conference lanyard — *Sponsored by ACME Group*



8.30am to 10.30am — Keynote Panel Session (Room W-212AB)

Emerging Giants: decarbonizing ammonia in China, India, and the United States

Twelve months ago, China, India, and the United States were on the periphery of the ammonia energy landscape, which had been dominated by first-mover countries including Japan, Australia, Korea, Chile, Norway, Netherlands, Spain and others. Now, the world's three most populated nations are driving new ambitions for decarbonization in the fertilizer industry, with global implications for the scale and speed of ammonia's opportunity in the energy transition.

Frank Yu — Head of Envision Hydrogen & Global VP, Envision Group

Jim Schwartz — Director, Sustainability & GPA USA, OCI

Oliver Hatfield — VP Business Development, Argus Media

Moderator: **Trevor Brown** — Executive Director, Ammonia Energy Association

10.30am to 11.00am

Morning tea/coffee break (Room W-211AB) — *Sponsored by Yara*



11.00am to 12.30pm — Technical Sessions (dual tracks)

Advancing Maritime Ammonia (Room W-212AB)

What key developments are helping advance the case for maritime ammonia, both on the port side and onboard vessels? How do we approach safety and public perception from a maritime perspective?

Emile Herben — Yara Clean Ammonia

Chase Ji — ABS

Monique Berrevoets-Steenbakker — Antea

Tatum Auvil — EPRI

Moderator: **Sofia Fürstenberg Stott** — AEA

Enabling Net-Zero Energy (Room W-212C)

How can ammonia fuel unlock net-zero electricity grids across the US? How can existing power plants transition to new fuels like ammonia? How can ammonia decarbonize the aviation sector and enable zero-emissions off-grid and backup power?

Rob Steele — EPRI

Heather Jackson — Interlock Energy

Gregory Pal — Mainspring Energy

Bill David — Sunborne Systems



DAY ONE continued (Tuesday, 15 November)

12.30pm to 2.00pm

Lunch provided (Room W-211AB) — *Sponsored by LSB Industries & Casale*



2.00pm to 3.30pm — Workshop Sessions (dual tracks)

Maritime Green Corridors Workshop (Room W-212AB)

How exactly can we begin building ammonia-powered, green maritime corridors between ports? Sofia Fürstenberg Stott, the AEA's Maritime Director, will help attendees figure out the key pieces of the puzzle.

Certification Workshop (Room W-212C)

AEA Certification working group session (invitation only)

3.30pm to 4.00pm

Afternoon tea/coffee break (Room W-211AB) — *Sponsored by Axetris*



4.00pm to 5.30pm — Keynote Panel Session (Room W-212AB)

The Policy Landscape in the United States

Recent policy developments have fundamentally altered the outlook for low-carbon hydrogen and ammonia in the United States. In this session, we dive into the domestic details, and discuss their impact across the world of ammonia energy.

Mark Behrman — CEO, LSB Industries

Claire Behar — CCO, Hy Stor Energy

Prerna Jain — Business Development Manager - New Energies, Chevron

Moderator: **Jacob Susman** — CEO, Ambient Fuels

5.30pm to 7.30pm

Evening reception (Room W-211AB) — *Sponsored by Hy Stor Energy*





DAY TWO (Wednesday, 16 November)

8.30am to 10.30am — Keynote Panel Session (Room W-212AB)

The Ammonia Sector Transition Strategy

Mission Possible Partnership published its *Ammonia Sector Transition Strategy* last month, the latest in a series of action plans for hard-to-abate sectors. This session will look at the key conclusions from the report, and a discussion of the strategies that will enable the ammonia sector to position itself for a sustainable, high-impact future.

Raffaele Ostuni — Head of Gas Technologies Department, Casale

Rob Stevens — VP Ammonia Opportunities, Saga Pure

Tomoaki Ichida — Executive Officer, Mitsui O.S.K. Lines

Adolfo Rivera — Senior Director for Green Hydrogen, Avangrid (Iberdrola Group)

Moderator: **Jesse Hoffman** — Project Lead, Ammonia Transition Strategy, Systemiq

10.30am to 11.00am

Morning tea/coffee break (Room W-211AB) — *Sponsored by LSB Industries*



11.00am to 12.30pm — Technical Sessions (dual tracks)

Enabling Clean Ammonia (Room 212AB)

What new technologies will enable clean ammonia production from gas feedstock, and how can existing production plants be improved?

Jakob Krummenacher — LSB Industries

Tim Matthews — Cozairo

Brent Novak — 8 Rivers

Hady Abdulhady — thyssenkrupp

New Ammonia Production Processes (Room 212C)

What new technologies are being developed to improve existing production processes, and where are these being deployed? We also explore some next generation production technologies, including high-performance computing for catalyst R&D.

Rianne Vriend Vrijenhoef — Proton Ventures

Yohei Shimada — JGC Corporation

Surya Josyula — Fujitsu Research of America

Zhenyu Zhang — AmmPower

12.30pm to 2.00pm

Lunch provided (Room W-211AB) — *Sponsored by Envision Group & Denbury*





DAY TWO continued (Wednesday, 16 November)

2.00pm to 3.30pm — Workshop Sessions (dual tracks)

Ammonia Sector Transition Strategy Workshop (Room 212AB)

In this special session, Systemiq, the authors of the Mission Possible Partnership's *Ammonia Sector Transition Strategy*, will lead an interactive workshop to identify actions that we can take immediately, and map out a long-term strategy for decarbonizing ammonia.

Certification Workshop (Room 212C)

AEA Certification working group session (invitation only)

3:30PM

Afternoon tea/coffee break (Room W-211AB) — *Sponsored by Black & Veatch*



4.00pm to 5.30pm — Technical Sessions (dual tracks)

Clean Energy from Ammonia (Room W-212AB)

Explore new applications for ammonia fuel in the aviation sector, solutions for NOx emissions, progress in cracking ammonia as a hydrogen carrier, and the role of precious metals in the ammonia energy economy.

Issei Tsuji — Nikki-Universal
John Pach — Johnson Matthey
Jayanta Kapat — UCF
Konrad Krois — Heraeus

Clean Ammonia from Electricity (Room W-212C)

Explore power-to-ammonia project design concepts, how hydrogen technology and ammonia production could unlock grid flexibility, and what process safety looks like in the all-electric ammonia plant.

Tomas Meyer — inodú
Alan Tan — Next Hydrogen
Liz Wachs — NREL
Frank Yu — Envision Energy

Dinner on your own (no organized event)



DAY THREE (Thursday, 17 November)

8.30am to 10.30am — Keynote Panel Session (Room W-212AB)

Establishing a Global Market for Ammonia Energy

What will be required to establish global markets for ammonia as an energy commodity? We explore new export projects, key enablers being developed, and the infrastructure required to unlock an expanded global market for ammonia.

Hans Vrijenhoef — Chair, Proton Ventures

Ashwani Dudeja — President & Director, Green Hydrogen and Ammonia, ACME Group

Patrick Molloy — Manager, Climate Aligned Industries, RMI

Moderator: **Grigori Soloveichik** — CEO, SolEXS Consulting

10.30am to 11.00am

Morning tea/coffee break (Room W-211AB)

11.00am to 12.30pm — Keynote Panel Session (Room W-212AB)

Ammonia Certification

To close this year's proceedings, we explore the all-important topic of certification. In the context of regional and international certification scheme developments, members of the AEA Certification Committee will present an update on our own under-development scheme, and discuss the next steps ahead as we move through the design phase and towards implementation.

Amgad Elgowainy — Group Leader, Electrification and Infrastructure, Argonne National Laboratory

Bert den Ouden — Project Director, HyXchange

Nicholas Cook — AEA Certification Committee / Senior EHS and Quality Manager, CF Industries

Vibeke Rasmussen — AEA Certification Committee / SVP Product Management & Certification, Yara Clean Ammonia

Moderator: **Wouter Vanhoudt** — Global Head of Business Development, Hincio

Close of conference — 12.30PM