POWERGEN CONFERENCE AT-A-GLANCE

DECARBONIZATION		ENERGY STORAGE DEPLOYMENTS	ENVIRONMENTAL AND EMISSION CONTROLS	NUCLEAR'S SMALL REVOLUTION	OPTIMIZING PLANT PERFORMANCE	PLANNING FOR THE ELECTRIC FUTURE	THE EVOLVING POWER PLANT	UNLOCKING HYDROGEN'S POWER POTENTIAL
W204A W202C		W202B	W202A	W205C	W203A	W203B	W203C	
TUESDAY, FEB 21ST								
10:15AM - 10:45AM	Removing barriers to decarbonization through solar and storage deployment	Code and standard updates for the safety	Direct air capture technology and maximizing carbon negativity	Winning the race for small modular reactors: Key success factors	Demonstrating heat transfer improvement and fouling reduction in the condenser and cooling tower at a 770 MW power plant	Comparing and evaluating zero- carbon energy technologies	How a Colorado utility is diversifying its portfolio with distributed energy assets	How grid-scale electrolyzers will transform our energy and industrial sectors
10:50AM - 11:20AM	Maintaining reliability throughout	טו מוג בוובוצא גוטומצי אאנשווא	Carbon sequestration site development, permitting,	High-temperature gas reactors: Leveraging approaches from thermal power generation	Flexible operating impacts on combined cycle power plant performance and reliability	Microgrids – Big implications	Combined heat & power systems: How do they stack up today?	Making clean hydrogen affordable
11:25AM - 11:55AM	the clean energy transition	Long duration energy storage next- generation technologies	challenges, and environmental impacts	Using BIM tools for physical-functional plant integration	Increasing efficiency and reducing emissions using analytics at-scale	Non-wires alternatives for DER integration and VOLT/VAR optimization	Hybrid data analytics for improved CHP operations by DTE Energy	Hydrogen blending – pilot projects for power generation facilities
1:00PM - 1:30PM			Federal section 45Q carbon capture credits explained	A look inside the DOE-NE microreactor program	Gas turbine performance evaluations and instrument calibration	Modular hybrid renewable microgrids - Fulfiling the global need for green power at pace SPONSORED BY E. H. G. L. N. E. S. Orizona A Stat.	An open source digital engineering framework for clean energy power plants	Sustainability and performance of hydrogen- fueled combined heat and power system
1:35PM - 2:05PM	Coal to biomass conversion at the Huntly Power Station: Lessons learned	Energy storage financials: What model makes the most sense	Capturing carbon from combined cycle gas turbines	How the endgame for net-zero microgrids will need a small reactor gambit	Robotic inspections for above-ground fuel storage tanks	Four forces of the energy evolution	Scaling the digital twin to the enterprise level	The H2-Orange initiative: Finding solutions for the decarbonized world
2:10PM - 2:40PM	Powering the Las Vegas Strip with the sun			Opportunities for generation-IV reactors and HALEU fuel	Optimizing thermal power plants using multiple algorithms	How IIJA and IRA can support your net zero agenda	Power plants built to balance renewable energy sources	Reducing carbon footprints: Using hydrogen and low carbon fuels in CHP systems
2:45PM - 3:15PM	Navigating Alaska's decarbonization journey	Building a sustainable battery ecosystem			Case study: Reducing operating expenses with condition-based maintenance	The combined impact of energy efficiency and demand response	Using digital twin and machine learning for thermal power plant predictive maintenance and decision support	Repowering a coal-fired plant with hydrogen: Making the dream a reality
3:20PM - 3:50PM	Improving grid reliability with PV + energy storage advancements		Carbon capture technology implementation and environmental considerations	Online health monitoring for extending calibration intervals of safety-related instruments at nuclear plants	Hydrogen purity in hydrogen-cooled generators		Aligning digital twin design with real- world power plant operation	
WEDNESDAY, FEB 22ND								
9:30AM - 10:00AM	CO ₂ mitigation technologies for gas turbines SPONSORED BY SIEMENS CHORGY	CO ₂ as energy storage	Case studies from recent coal-to- natural gas conversion projects	Evaluating SMR technology: An owner's engineer perspective	Optimizing plant performance through ultrasonic flow measurement SPONSORED BY Backer Hughes	Benchmarking solar and wind	Keeping the traditional power plant relevant	Gas turbine engine development for 100% hydrogen fuel
10:05AM - 10:35AM	Benefits and challenges with low-carbon fuels		Considerations for firing hydrogen in utility-scale power boilers	Overview of a small modular reactor project	Advanced materials from aircraft improve LM6000 performance	Microgrids for utilities in the energy transition SFONSORED BY ENCHANTED ROCK The Power Is On		Examination of ammonia as a potential zero-carbon gas turbine fuel
10:40AM - 11:10AM	Green energy solutions for Mumbai consumers	The state of underground energy storage		SMRs and the nuclear renaissance: Policy and regulatory issues	Aeroderivative equipment upgrades for asset reliability	Existing legacy assets	Evaluation of power generation grounding systems under lightning conditions	Hydrogen-capable gas turbines and renewables: A pathway to decarbonization
11:15AM - 11:45AM	Making sustainability innovation real: Stanford University's decarbonization journey		Big Rivers coal-to-gas conversion: Case study of Robert D. Green Units 1 & 2	The evolving SMR market	Retrofits for today's and tomorrow's gas turbine fleet	Rethinking data center power	Automated diagnostic and decision making to improve plant reliability	
11:50AM - 12:20PM				Nuclear as a critical pathway to achieving net-zero by mid-century				
1:30PM - 2:00PM	Carbon capture, pipeline transport & geologic storage		The future of net-zero combined cycle facilities		Nanobubbles: Tiny fighters that take on your biggest costs & energy wasters		Virtual platforms for project execution and plant operations	How fuel cells and green hydrogen can get EV fleets on the road faster
2:05PM - 2:35PM			Understanding NOx production in hydrogen gas turbines		Reducing cooling tower water consumption			Utility-scale power generation with the only technology that can run both hydrogen and ammonia
2:40PM - 3:10PM	Applications and solutions for electric boilers SPONSORED BY OFFICE STON BOILERS	Battery storage: Lessons learned		Overview of the Carbon Free Power Project at DOE's Idaho National Laboratory		How to prepare for the age of EVs	The journey to autonomous operation SPONSORED BY SIEMENS CHORGY	Lessons learned across a portfolio of hydrogen energy storage and hydrogen cofiring projects





