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Naperville, IL – Keith Flitner, President of the Turbine Inlet Cooling Association (TICA), presented a paper, " Turbine Inlet Cooling: A Pathway for Maximizing the Economic Performance and Electric Grid Decarbonization Potentials of Combined Cycle Systems," at the Combined Cycle Users Group Conference (August 26-28, Phoenix, AZ). The presentation is available.

He announced that Nabras Power IPP1 of Jordan won TICA's 2024 Turbine Inlet Cooling Excellence Award for Combined Cycle Users. It operates a combined cycle system incorporating two 140 MW gas turbines (Ansaldo AE94.2). Nebras Power has used a fogging system for turbine inlet cooling (TIC) since 2013.

Award Plaque for Nebras Power IPP1/Jordan


Nebras Power IPP1/Jordan

The fogging system has increased power output capacity by 25 to 35 MW, depending on the weather conditions. It also decreased the average heat rate by 28,400 Btu/WMh. It reduced NOx emissions by 8-10 ppm. At 12% discount rate, the simple payback period for the TIC system is only 2 years.

The Turbine Inlet Cooling Association (TICA) is a non-profit trade association that promotes the development and exchange of knowledge about TIC that enhances gas turbines' power generation capacity and efficiency during hot weather when power demand is high. TIC is a pathway for decarbonizing the electric grid by minimizing the need to operate low-efficiency and high-carbon-emitting systems to meet the grid demand during hot weather.