



## **Dharam Punwani's TIC Publications & Presentations**

1. "Turbine Inlet Cooling: A Pathway for Maximizing the Economic Performance and Electric Grid Decarbonization Potentials of Combined Cycle Systems," presented at the 2024 conference(August 26-29) of the Combined Cycle Users Group (CCUG) in Phoenix, AZ.
2. "Turbine Inlet Cooling: A Pathway for Maximizing the Potential of CHP for Decarbonizing the Electric Grid," presented at the 2024 Forum of the Energy Solutions Center on June 26.
3. "Maximize Decarbonization of the Electric Grid by Turbine Inlet Cooling of District Energy Systems," presented at the 2024 Conference of the International District Energy Association (IDEA) on June 17-20 in Orlando, FL.
4. "Turbine Inlet Cooling: An Excellent Pathway for Maximizing the Grid-Decarbonization Potential of CHP Systems," presented on April 20, 2023, at the webinar hosted by the Midwest Cogeneration Association (MCA) and the U.S. Department of Energy's Midwest and Central CHP Technical Assistance Partnerships.
5. "Turbine inlet cooling: First step on the pathway to net zero emissions," an Article Published in the May 2022 Issue of the Combined Cycle Journal.
6. "Turbine Inlet Cooling Technologies, their Benefits for Cogeneration/CHP, and a Case Study," presented a webinar on November 18, 2021, hosted by the Midwest Cogeneration Association (MCA) and the U.S. Department of Energy's Midwest and Central CHP Technical Assistance Partnerships.
7. " An Overview of the Updated ASHRAE Design Guide for Combustion Turbine Inlet Cooling," at the 2020 ASHRAE Virtual Conference on June 29, 2020.
8. "Turbine Inlet Cooling: Updates on All Technologies and Resources for Combustion Turbine Users," at the Western Turbine Users Conference March 20, 2018, Las Vegas, NV.
9. "Enhancing Capacity and Efficiency of Combustion Turbines during Hot Weather using Turbine Inlet Cooling: Update on All Technologies," presented at POWER-GEN International Conference, December 5-7, 2017, Las Vegas, NV.
10. "Turbine Inlet Cooling: Updates on All Technologies and Resources for Combustion Turbine Users," presented at Western Turbine Users Conference, March 18-20, 2018, Palm Springs, CA.
11. "Enhancing Capacity and Efficiency of Combustion Turbines during Hot Weather using Turbine Inlet Cooling: Update on All Technologies," prepared at Electric Power, March 21, 2018, Nashville, TN.
12. "Turbine Inlet Cooling Technologies Overview," a webinar sponsored by the Turbine Inlet Cooling Association, April 9, 2014.

13. "Turbine Inlet Cooling Case Study for an Industrial CHP System for Multiple Buildings in the Midwest," a paper presented at the International District Energy Association Conference, Chicago, IL, July 2, 2012
14. "Turbine Inlet Cooling: An Overview," a webinar sponsored by the Turbine Inlet Cooling Association, June 20, 2012
15. "Benefits of Turbine Inlet Cooling and Thermal Energy Storage for CHP and Cogeneration Systems," Midwest Cogeneration Conference, "Implementing Winning Cogeneration/CHP Projects," Elgin (Chicago Area), I.L., October 11, 2011
16. "Turbine Inlet Cooling Technologies and Applications for Optimizing Cogeneration / CHP Systems," a Webinar Presentation Cosponsored by the Midwest Cogeneration Association and the U.S. DOE Midwest Clean Energy Application Center, August 25, 2011.
17. "Combustion Turbine Inlet Cooling for Power Augmentation: An Overview," ASME Turbo Expo 2011, Vancouver, BC, Canada, June 6-10, 2011
18. "Optimizing Clean Energy Systems with Thermal Energy Storage and/or Turbine Inlet Cooling," U.S. Clean Heat & Power Association (USCHPA) Spring CHP Forum, Washington, DC, May 5-6, 2011
19. "Hybrid Systems for Cooling Turbine Inlet Air for Preventing Capacity Loss and Energy Efficiency Reduction of Combustion Turbine Systems," ASME 2010 Power Conference, Chicago, IL, July 14, 2010
20. 13. "Turbine Inlet Cooling: Increased Energy Efficiency & Reduced Carbon Footprint Aspects for District Energy Systems," International District Energy Association (IDEA) Conference, Indianapolis, IN, June 14, 2010
21. "Combined Heat & Power (CHP) for Hospital Applications" Developed for the U.S. Department of Energy (2009)
22. "Hybrid and LNG Systems for Turbine Inlet Cooling," Competitive Power College Curriculum (CPC 504), POWER-GEN International, Las Vegas, NV, December 7, 2009
23. "Impact of Turbine Inlet Cooling Technologies on Capacity Augmentation and Decrease in Carbon Footprint for Power Production," Electric Power 2008, Baltimore, MD, May 7, 2008
24. "Technologies and Economics of Turbine Inlet Cooling Application in Cogeneration," Midwest Cogeneration Association Conference, Countryside, IL, May 6, 2008
25. "To Cool Or Not To Cool," published in Power Engineering, February 2006
26. "Turbine Inlet Cooling for Power Augmentation in Combined Heat & Power (CHP) Systems," presented at POWER-GEN International 2005, Las Vegas, NV, December 6-9, 2005
27. "Unearthing Hidden Treasure," published in Power Engineering, November 2005
28. "Turbine Inlet Cooling Benefits Plant Owners and the Environment," published in POWER, September 2005.
29. "Combined Heat & Power (CHP) Resource Guide" developed for the U.S. Department of Energy (2005)

30. "Database of U.S. Combined Heat & Power Installations Incorporating Thermal Energy Storage and/or Turbine Inlet Cooling," a report prepared for the U.S. Department of Energy, September 2004.
31. "Hybrid Systems & LNG for Turbine Inlet Cooling," published in the Energy-Tech, October 2004.
32. "Chiller Technologies for Turbine Inlet Cooling- Part 2," published in the Energy-Tech, June 2004.
33. "Chiller Technologies for Turbine Inlet Cooling," published in the Energy-Tech, April 2004.
34. "An Introduction to Turbine Inlet Cooling," published in the Energy-Tech, December 2003.
35. "G.T. Inlet Air Cooling Boosts Output on Warm Days to Increase Revenues," published in the Combined-Cycle Journal, October 2003.
36. "Turbine Inlet Cooling Technologies & Economics," a Web-based tutorial developed for the Web site of the Turbine Inlet Cooling Association, June 2003. September 2004.
37. "Combined Heat & Power (CHP) Resource Guide," developed for the U.S. Department of Energy 2003
38. "Combined Heat & Power (CHP) Website," developed for the Oak Ridge National Laboratory (2003)
39. "Combined Heat & Power (CHP) Website, for the U.S>Department of Energy (2001)
40. "Turbine Inlet Cooling: A Great Strategy for Maximizing the Potential of Combustion Turbines and Addressing the Needs of Restructuring Energy Market," presented at the ASHRAE seminar on Technical, Energy and Government Issues Update, Chicago, IL, January 2003.
41. "Impact of Turbine Inlet Cooling on Power Availability in California," presented at the ASHRAE Seminar on Combustion Turbine Inlet Cooling, Atlantic City, NJ, January 2002.
42. "Absorption Chiller Application for Power Generation: A Case Study for a 316-MW Cogeneration Plant in Pasadena, Texas (USA)," presented at the International Gas Research Conference, Amsterdam, The Netherlands, November 2001.
43. "A Hybrid System for Combustion Turbine Inlet Cooling for a Cogeneration Plant in Pasadena, TX," ASHRAE Transactions Vol.107, Part 1, 2001.
44. "Absorption Chiller Application for Power Generation: A Case Study for a 316-MW Cogeneration Plant in Pasadena, Texas (USA)," presented at the International Gas Research Conference, Amsterdam, The Netherlands, November 2001.
45. "A Hybrid System for Combustion Turbine Inlet Cooling at a Cogeneration Plant in Pasadena, Texas," presented at the ASHRAE Symposium on Combustion Turbine Inlet Cooling, Atlanta, GA, January 2001
46. "Emerging Growth Opportunity for Sorption Heat Pumps: Power Capacity Enhancement of Gas Turbine Systems," International Sorption Heat Pump Newsletter, Vol.5, No.4, Fall 1999.

47. "Application of Absorption Chiller for Combustion Turbine Inlet Cooling: Some Technical and Economic Analysis and Case Summaries," presented at the ASHRAE Seminar on Combustion Turbine Inlet Cooling, Seattle, WA, June 1999.

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