

***Jay Apt***  
***Bio***

Jay Apt is Executive Director of the Carnegie Mellon Electricity Industry Center at Carnegie Mellon University's Tepper School of Business and the CMU Department of Engineering and Public Policy, where he is a Distinguished Service Professor. He received an A.B. in physics from Harvard College in 1971 and a Ph.D. in experimental atomic physics from the Massachusetts Institute of Technology in 1976. Recent publications include, "The Character of Power Output from Utility-Scale Photovoltaic Systems", "Air Emissions Due To Wind And Solar Power", "Promoting Low-Carbon Electricity Production", "Storing Syngas Lowers the Carbon Price for Profitable Coal Gasification", "The Spectrum of Power from Wind Turbines", and "The Character of Power Output from Utility-Scale PV Systems". He has co-authored with Lester Lave opened pieces for the New York Times and the Washington Post. He received the NASA Distinguished Service Medal in 1997 and the Metcalf Lifetime Achievement Award for significant contributions to engineering in 2002.