

**List of CHP-related FEMP and ORNL publications**  
**FEMP ADD CHP Team at ORNL**  
**April 2003**

**FEMP Documents & Brochures**

“FEMP CHP Program Overview,” ORNL Federal Energy Management Program, 2002.  
<http://www.ornl.gov/femp/>

*CHP Potential at Federal Sites*, ORNL Federal Energy Management Program, September 2002.  
<http://www.ornl.gov/femp/>

*Analysis of CHP Potential at Federal Sites*. ORNL, Federal Energy Management Program, ORNL/TM-2001/280, February 2002. <http://www.ornl.gov/femp/>

**Articles**

“New Combined Heat and Power Projects Mark a Growing Trend,” U.S. DOE Energy Efficiency and Renewable Energy Network (EREN)—*EREN Network News*, Jan. 29, 2003. <http://www.eren.doe.gov/>

“FEMP Examines Market Assessment of CHP Projects,” *FEMP Focus* – November 2002  
<http://www.eere.energy.gov/femp/newsevents/fempfocus.shtml>

“FEMP’s CHP Screening Service Now Easier,” *FEMP Focus* – November 2002.  
<http://www.eere.energy.gov/femp/newsevents/fempfocus.shtml>

“FEMP CHP Programme – U.S. Initiative” at <http://www.chclub.com/>. See CHP Club’s Newsagents, International. October 2002.  
<http://www.chclub.com/main.cfm?page=search.cfm&menucode=00010005&menuid=6&menutitle=Search&initframe=1>

“Fast Track Your CHP Project With FEMP’s Screening Assistance,” *FEMP Focus* – March/April 2002.  
<http://www.eere.energy.gov/femp/newsevents/fempfocus.shtml>

**Papers**

“ADD CHP—Accelerated Development and Deployment of Combined Cooling, Heat and Power at Federal Facilities,” Keith L. Kline, Stanton W. Hadley, and Julia S. Kelley, ORNL. Presented at AEE’s 25<sup>th</sup> World Energy Engineering Congress (WEEC), Oct. 9–11, 2002, Atlanta, GA and published in “Solutions for Energy Security & Facility Management Challenges—Proceedings of the 25<sup>th</sup> WEEC,” and AEE journal *Energy Engineering*, Vol. 99, No. 6, 2002. Dr. Wayne C. Turner, Editor-in-Chief. Note: A slightly different version of this paper was presented at and published in “Proceedings of the American Council for an Energy-Efficient Economy (ACEEE) Summer Study on Energy Efficiency in Buildings,” August 18–23, 2002, Pacific Grove, CA.

“Financing Energy Security—Approaches to Increase Power Reliability, Reduce Costs, and Save Energy (Without Depending on Appropriations).” Prepared for the 29<sup>th</sup> Environmental and Energy Symposium—DoD Transformation: The Role of Environmental and Energy Programs in Sustaining Readiness, April 7–10, 2003, Richmond, Virginia. Draft for review available at [http://www.ornl.gov/femp/pdfs/030327-FinancingEnergySecurity\\_NDIA\\_Draft.pdf](http://www.ornl.gov/femp/pdfs/030327-FinancingEnergySecurity_NDIA_Draft.pdf)

“CHP Self Analysis.” Fischer S. K., J. Glazer. Presented at the 2002 ASME Conference in New Orleans, LA.

“CHP Demonstration Projects at Federal Facilities.” Fischer, S. K., P. J. Hughes, S. Carlson, H. Henderson. Presented at the January 2001 ASHRAE conference in Atlantic City, NJ.

**Recent Presentations**

“Federal Energy Security Distributed Generation and Combined Heat and Power,” Prepared for FEMP in “An Energy Summit: How Secure is Your Energy Supply?” United Nations International School, February 20, 2003, New York, NY. Available at the ORNL FEMP website at: <http://www.ornl.gov/femp/index.html>

“FEMP’s Accelerated Development and Deployment of CHP (ADD CHP),” presented at the DER and CHP in Federal Facilities, FEMP/U.S. Combined Heat and Power Association Workshop, October 23–25, 2002, Boston, MA. Available at the ORNL FEMP website at: <http://www.ornl.gov/femp/index.html>

“ADD CHP for Federal Facilities and NTDP,” presented at the 25<sup>th</sup> World Energy Efficiency Congress, October 10, 2002, Atlanta, GA. Available at the ORNL FEMP website at: <http://www.ornl.gov/femp/index.html>

---

### **Useful CHP resources and presentations from ORNL**

“ORNL Performance Data for Gas Turbines and Microturbines,” January 15, 2003. Randy Hudson, Oak Ridge National Laboratory.

“Survey of DER/CHP Software,” February 2003. Randy Hudson, Oak Ridge National Laboratory. Available at the ORNL FEMP website at: <http://www.ornl.gov/femp/index.html>

*Connecting Distributed Energy Resources to the Grid: Their Benefits to the DER –Owner/Customer, Other Customers, the Utility and Society*, ORNL Engineering Science and Technology and Nuclear Science and Technology Divisions. W. P. Poore, T. K. Stovall, B. J. Kirby, D. T. Rzy, J. D. Kueck, J. P. Stovall. ORNL/TM-2001/299. February 2002. contact [ridersl@ornl.gov](mailto:ridersl@ornl.gov).

“Experimental and Theoretical Study of Gas Microturbine-Based B CHP System,” Proceedings of the 2001 ASME International Mechanical Engineering Congress and Exposition, AES-23622, New York, NY, November 2001. <http://www.ornl.gov/~webworks/cpr/y2001/pres/111290.pdf>.

“Predictive Algorithms for Microturbine Performance for B CHP Systems,” Transactions of the 2002 ASHRAE Annual Meeting, HI-02-5-4, Honolulu, HI, June 2002. contact [ridersl@ornl.gov](mailto:ridersl@ornl.gov).

“DER Performance Testing of a Microturbine-Based Combined Cooling, Heating, and Power (CHP) System,” Proceedings of Power System 2002 Conference, Clemson, SC, March 2002. <http://www.ornl.gov/~webworks/cpr/y2002/pres/113100.pdf>.

“Power Quality and the Control of DG on Distribution Systems,” Proceedings of Power System 2002 Conference, Clemson, SC, March 2002. <http://www.ornl.gov/~webworks/cpr/y2001/pres/113428.pdf>.

“Steady-State and Dynamic Performance Characterization Testing of a Microturbine,” Proceedings of Power System 2002 Conference, Clemson, SC, March 2002. contact [ridersl@ornl.gov](mailto:ridersl@ornl.gov).

“Integration of Distributed Energy Resources and Thermally-Activated Technologies,” DistribuTech Conference, Miami Beach, FL, February 2002. <http://www.ornl.gov/~webworks/cpr/y2001/pres/113382.pdf>.

“Study of Flue Gas Emissions of Gas Microturbine Used in B CHP System,” Journal of Power Plant Chemistry, April 2002. contact [ridersl@ornl.gov](mailto:ridersl@ornl.gov).

“Environmental Aspects of Operation of Gas Microturbine-Based CHP System,” Proceedings of the 19<sup>th</sup> Annual International Pittsburgh Coal Conference, Pittsburgh, PA, September 2002 (Award for Honorable Mention Technical Poster). contact [ridersl@ornl.gov](mailto:ridersl@ornl.gov).

“CHP Integration (OR IES): Maximizing the Efficiency of Distributed Generation with Waste Heat Recovery,” submitted to the Power Systems 2003 Conference, Clemson, SC, March, 2003. contact [ridersl@ornl.gov](mailto:ridersl@ornl.gov).

“Baseline and IES Performance of a Direct-Fired Desiccant Dehumidification Unit under Various Environmental Conditions,” submitted to 2003 ASHRAE Annual Meeting, Kansas City, June 2003 (under review). contact [ridersl@ornl.gov](mailto:ridersl@ornl.gov).

“Laboratory R&D on Integrated Energy Systems (IES),” submitted to the International Congress of Refrigeration 2003, Washington, D.C., August 2003 (under review). contact [ridersl@ornl.gov](mailto:ridersl@ornl.gov).