



President's Message Moving Forward with Energy Efficiency

—by Raj G. Rao

Last year, IMPA made a commitment to our members and their customers to make energy efficiency a priority. In September 2010, the IMPA Board of Commissioners voted to participate in the Indiana state-wide energy efficiency program being developed by the Indiana Utility Regulatory Commission and a coalition of 14 utilities. Although the program experienced a delay and was not rolled out on January 1, 2011 as expected, IMPA is moving forward with its commitment to energy efficiency. We have chosen to be proactive and look into what programs we can offer now to allow customers to realize savings sooner rather than later.

Energy efficiency is an economic, reliable and environmentally-responsible solution to a reduction in energy usage. It is expected that for every dollar customers put into energy efficiency, they will realize three dollars in savings.

IMPA anticipates offering an initial menu of services to commercial and industrial customers in its member communities through an energy efficiency incentive program. Businesses will save money through incentives for implementing energy-saving measures in lighting, industrial motors, heating, ventilation and air conditioning, refrigeration, food service and controls.

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Trimble County 2 comes online

A new year meant a new generating resource for the Indiana Municipal Power Agency (IMPA), broadening the Agency's generation portfolio and ensuring the continuance of low cost, reliable and environmentally responsible power to members. Trimble County Unit 2 (TC2), a 750 megawatt (MW) supercritical, pulverized coal-fired unit, began generating power on January 22, 2011.

The unit is expected to supply IMPA's member communities with approximately 100 MW of capacity.

TC2 achieves both high efficiencies and extremely low emission rates because of a collection of state-of-the-art control equipment. High steam temperature and pressure makes the unit highly efficient, while air emissions control equipment places TC2 among the best plants nationwide in terms of low emission ratings. TC2 would rank in the top one percent of all coal-fired plants in the U. S. in regards to sulfur dioxide (SO₂) emissions from preliminary data compiled by the Environmental Protection Agency's (EPA). TC2's selective catalytic reduction controls equipment also would put TC2 in the top seven plants in the U. S. for nitrogen oxide (NO_x) emissions out of more than 1200 plants, according to the same preliminary data.



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Steve Brown awarded prestigious medal

Indiana Municipal Power Agency's own Steve Brown, Power System Coordinator, was awarded the esteemed Navy and Marine Corp Commendation Medal. The medal recognizes his superior performance while assigned as Senior Enlisted Leader Surgemain for the Naval Sea Systems Command Reserve Program Office from November 2009 to December 2010.

"It's an honor to receive," Brown said. His primary duties during this time were recruiting individuals already in the military for the Surgemain programs. He sought Navy personnel who had civilian engineering skills that didn't necessarily use that knowledge in their line of work with the Navy. During this time there was a high demand for maintenance in the shipyards and Brown was extremely successful in filling those voids.

"Senior Chief Brown is the epitome of a Naval Chief Petty Officer and has demonstrated time and again that superior leadership is the backbone of the Navy Chief's Mess," a statement alongside the award said.

Brown is now serving his third tour of duty in Afghanistan. He will spend a total of 270 days on the ground there at a detainment facility. ☪



Steve Brown, Power System Coordinator/Trader

Legislative Reception set for March

IMPA will once again be sponsoring the Indiana Association of Cities and Towns Legislative Conference. The 2011 event will be held on March 22 at the Westin Hotel in downtown Indianapolis. The day's events will conclude with a legislative reception hosted by IMPA and the Indiana Municipal Electric Association. Mark your calendars for this annual event and contact Carolyn Wright at (317) 575-3873 or cwright@impa.com for additional information. ☪

Save the date

March 22

**Legislative Reception
Westin Hotel
Indianapolis
5 - 7 p.m.**

Streetlight Update

New, energy efficient streetlights are up and shining in 18 IMPA member communities. An Energy Efficiency and Conservation Block Grant helped make this possible and remaining

money from the grant will assist other member communities in installing new energy efficient street lighting technology. Multiple communities, in addition to

the participating 18, expressed interest in the project by the deadline of February 3. IMPA is working with the new participating municipalities to initiate their projects this Spring. ☪



New, light emitting diode (LED) streetlights line IMPA member Greenfield's streets. Greenfield was one of 18 original communities who participated in the grant.

Project Watch

Prairie State Energy Campus

The Prairie State Energy Campus is approximately 63 percent complete. The hydrostatic test of the Unit 1 boiler was completed in December as was the steam turbine generator lube oil flush. A significant milestone was reached after the lube oil flush when the unit was tested on its turning gear. Work continues on the Unit 2 boiler. Bechtel is making progress in the reheat section and with the spiral tube installation and the economizer area. Other work on the power block consists of Unit 2 steam turbine generator installation, air heater installation, flue gas ductwork section installation and air quality control system work. At the Lively Grove Mine, construction is 70 percent complete and on schedule. The coal pile inventory is being built and the final utility tie-ins will be made with the generating station in the near future. The Jordan Grove disposal site's rail and unloading facilities are very near completion. The final transmission line, the Baldwin to Rush Island line, is now complete and has been energized. *W*



An aerial view of the Prairie State Energy Campus. Photo courtesy of John Whitney, www.aerialsbywhitney.com.

Trimble County Unit 2

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In addition to catalytic reduction controls, air emissions control equipment such as a dry electrostatic precipitator for particulate control, a pulse jet fabric filter for additional particulate control, a wet flue gas desulfurization system for SO₂ removal and a wet electrostatic precipitator for fine particulate control will work together to remove mercury and other emissions.

Construction of TC2 began in the summer of 2006. Louisville Gas and Electric provided the day-to-day construction project oversight for the project and Bechtel was the engineering, procurement and construction contractor. At the project's peak in 2009, Bechtel managed a labor force of approximately 2600 workers.

As with any major construction project, the owners saw four years of achievements and issues that had to be solved. Throughout the process, the unit routinely attained performance test results that surpassed the required levels. *W*

Staff Updates



Mel Denton has been promoted to Senior Combustion Turbine Operator/Technician and Compliance Specialist. Mel began his career at IMPA in 2005 as Combustion Turbine Operator/Technician.

Andrew Despain joins IMPA as its new Staff Counsel. Andrew obtained his Juris Doctor (law) degree from Duke University School of Law with honors and previously worked at the Jones


Day law firm in Texas. *W*



And the winner is...

Indiana Municipal Power Agency's power system coordinators have always carefully tracked demand trends throughout the year in order to provide reliable, low-cost energy to members. To incentivize even more accurate load forecasting, the coordinators upped the ante and entered into a friendly competition in 2010.

Each coordinator is in charge of scheduling a power supply for five load areas throughout Indiana and Ohio. IMPA tracks the hourly load forecasts scheduled and compares them to the actual hourly loads. The coordinator with the least variation in load forecasts during the course of 2010 was Rick Hocking.


The power coordinators will continue the competition in 2011 and are near the finish line of the first quarter. This year's annual winner will be announced in the January/February 2012 issue of the *Wire*. 



Rick Hocking, Power System Coordinator/Trader

President's letter

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Energy efficiency is a win-win situation for everyone involved. It saves future electricity costs by substituting for or delaying the construction of new power plants, lures economic development to local areas and widening the tax base, helps communities create and maintain jobs and saves the environment by reducing dependence on land, water and air resources. More than anything though, energy efficiency will reduce customer energy consumption bills. IMPA is excited to see both the initial reduction in energy usage by commercial and industrial customers and the greater effects the program will have on encouraging economic development in our member communities. 

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