

CLEAN CITIES COURIER



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Pinal Energy Open for Ethanol Production

Arizona's first ethanol plant has produced ethanol for distribution since July 1. Pinal Energy held a groundbreaking ceremony in January 2006 in Maricopa. State and local officials were present to witness the beginning of ethanol production in Arizona.

The plant, which was constructed by The Industrial Co. (TIC) with process technology supplied by Delta-T Corp., is adjacent to the Arizona Grain's existing grain facility. "It really is a natural fit for us with a major grain facility and a big feedlot next door," said John Skelley, general manager for the plant. "This is an exciting asset in that it will involve not only processing corn into feed, but also the creation of two new products for this facility: energy and carbon dioxide."



John Skelley, general manager of Pinal Energy in Maricopa

Pinal Energy will produce 55 million gallons of ethanol from an estimated 18 million bushels of corn per year, shipped from the Midwest. Perhaps one of the most efficient features of this plant in particular is the use of conveyor belts for the movement of corn coming in and feed going out. The convenience of Arizona Grain being located next door is that storage facilities were available. The conveyor system brings in corn from the elevator to be processed into ethanol. The feedstock byproduct, after processing the fuel, is then distributed by another set of conveyor belts to 165,000 head of cattle surrounding the plant – thereby not causing an increase in truck traffic to distribute the feed.

According to a study conducted at the University of California, Berkeley, ethanol production uses less petroleum energy than conventional gasoline. There is a misconception in some of the media and the public

that America's food supply will be affected if corn is used for fuel and not for food. However, the corn used for ethanol production is feed corn which is used to feed livestock, not sweet corn, which is what you find at your local farmer's market in the summer. Also, the byproduct (rather than the feed corn) is used to feed livestock.

The plant is producing 160,000 gallons of fuel a day, or about 23 truckloads. The fuel is mixed, 85 percent ethanol with 15 percent petroleum, resulting in a fuel that cannot be consumed and that produces smoke when burned – as a safety precaution to avoid contact with the fuel.

Arizona currently uses ethanol in the winter as an oxygenate in gasoline, with each gallon being up to 10 percent ethanol. If the state mandate increases, Pinal Energy could grow with it through expansion of the plant, doubling its production capacity to 110 million gallons a year.

"This is not a solution for fossil fuels," admits Skelley. "It's a partial solution."

Tucson has five stations that sell E85 and other stations are planned to help reduce our dependence on foreign oil and to breathe cleaner air.



Pinal Energy uses conveyor belts to move corn from the elevator to the ethanol production facilities and to distribute the feedstock byproduct to cattle surrounding the plant.

"America is never done, like a painting or a poem. This nation we love will only survive if each generation of loving, caring Americans will care enough to change things to suit the times."

-Hon. Morris K. Udall, U.S. House of Representatives 1961-1990

Biodiesel Station opens in Parker

A ribbon-cutting ceremony was held on July 25, 2007, to commemorate the opening of western Arizona's first biodiesel station. Western States Petroleum, a leader in Arizona's biodiesel delivery, partnered with the Lower Colorado River Resource RC&D, Whitesands and Pima Association of Governments' Clean Cities Program to bring biodiesel and premium low emission, high-mileage premium diesel to the pristine valley of Parker in an effort to enhance the quality of life for the citizens of Parker.



Open for business (from left): Cleff Edey (Board of Supervisors), Jeff Spencer (Western States Petroleum), Gary Haer (Renewable Energy Group), Bob Kec (Western States Petroleum), Colleen Crowninshield (Tucson Clean Cities Coalition), Charles Yerkes (EMTA Corp Whitesands), Danny Markus (Lower Colorado River Resource RC&D), Parker Vice Mayor Frank Savino and Guy Gorman (Lower Colorado River Resource RC&D).

"Having biodiesel accessible in Parker is a win-win for all, and having access to a premium low emission, high-mileage diesel fuel will only enhance our visitors' experience lowering diesel emissions

in recreation vehicles which come to Parker to enjoy the beautiful Colorado River," said Parker Mayor Karen Bonds. "It is important that we continue to partner with Clean Cities and others to look for ways to reduce our diesel emissions in an area which draws so many visitors in the summertime. We want to ensure we are doing our part to enhance the quality of life for our citizens and generations to come."

Western States' also will use a low-emission diesel fuel catalyst through Whitesands' subsidiary, EMTA Corp., to further reduce particulates and NOx in biodiesel in Parker.



Biodiesel enthusiast filling up with Western States Petroleum's Bob Kec (middle) and Jeff Spencer (right)



Tucson's Alternative Energy Expo Sept. 14-15

Pima Association of Governments together with Tucson's Clean Cities Coalition will host the region's first Alternative Energy Expo on Friday, September 14 from 3 - 6 p.m. and Saturday, September 15 from 10 a.m. to 6 p.m. The Expo will feature an array of exhibitors, ranging from alternative fuel vehicles to solar panels to roof coatings. Vendors will display products applicable to private organizations and the public alike.

The event will feature over 40 displays of vehicles and booths, including walk-through exhibits and kid-friendly displays. There also will be an author event featuring Terry Tamminen, author of *Lives Per Gallon: The True Cost of Our Oil Addiction*, and Crissy Trask, author of *It's Easy Being Green: A Handbook for Earth-Friendly Living*.

For more information, please check out our Web site www.TucsonAltEnergyExpo.com or contact Sara Hummel Rajca at srajca@pagnet.org.

EPIC and Clean Cities kick-off Ethanol Campaign in Arizona

On July 26, the Ethanol Promotion and Information Council (EPIC) began its year-long ethanol campaign in the state of Arizona. A workshop was held in central Phoenix for fuel distributors, marketers and retailers to educate them on promoting and obtaining ethanol. Approximately 75 people attended, many with the ultimate goal of bringing ethanol specifically to Maricopa County, which currently has zero stations to Tucson's five. It was the first of many successful meetings in the next year that EPIC will host across Arizona.



ethanol

www.drivingethanol.org

East Coast Peer Exchange

Tucson's Clean Cities program manager, Colleen Crowninshield, attended the East Coast Clean Cities Coordinator Peer Exchange in Pittsburgh, Pa. Crowninshield was invited to attend to discuss the high success rate the Tucson Clean Cities coalition and to help direct others in their programs. In Pittsburgh, General Motors hosted a reception for the coordinators where they geared up for the upcoming retreat at Mammoth Caves in Kentucky in September. In Kentucky, the U.S.

Department of Energy will host Clean Cities coordinators at the first ever retreat for further training and an idea exchange. Colleen sits on the planning committee for the event that provides an opportunity to collaborate on a national Clean Cities strategy, learn from others' successes, discuss and address common challenges, and plan for the year ahead.

House passes 2007 Farm Bill

On July 27, the U.S. House of Representatives passed the Farm, Nutrition and Bioenergy Act of 2007 (H.R. 2419), with a vote of 231-191. The bill covers a number of publicly provided funding and services including conservation, energy production, specialty crops, nutrition and the food stamp program.

The 2007 bill includes several extensions to the 2002 Farm Bill Energy Title and many new energy and energy efficiency programs. Some of these programs include loan guarantees for biorefineries, grants for internships in bioenergy, woody-biomass energy research and demonstration, a study on ethanol pipeline feasibility, and several other biomass and renewable energy-related programs.

Below is the list of the Energy Title provisions included in the H.R. 2419 (new programs in bold):

- Energy Council of the Department of
- Federal procurement of biobased products
- Loan guarantees for biorefineries and biofuel production plants
- Energy audit and renewable energy development program
- Renewable energy systems and energy efficiency improvements
- Biomass Research and Development Act of 2000
- Adjustments to the bioenergy program.
- Research, extension, and educational programs on biobased energy (Sun Grants)
- **Agricultural biofuels from biomass internship pilot program**
- **Feedstock flexibility program for bioenergy producers (sugar)**
- **Dedicated ethanol pipeline feasibility studies.**
- **Biomass inventory report**
- **Future farmsteads program**
- **Sense of Congress on renewable energy**
- **Biodiesel Education Program**
- **Biomass Energy Reserve**
- **Forest Biomass for Energy**
- **Supplementing Corn as an Ethanol Feedstock (sorghum provision)**
- **Community Wood Energy Program**

Source: Environmental and Energy Study Institute



Among those pictured are Brinda Shetty, Brian Crowe, Mike Scarpino from the National Energy Technology Laboratory and US DOE's Steve Richardson.



Among those pictured are Lee Grannis, Linda Hardie, Pete Polubiatko and American Honda's Barry Carr.(right)

SOUNDBOARD

Council Member Takes Off

The Midtown Ward 6 office will host its second annual GO GREEN event on Aug. 21 from 4 p.m. to 7 p.m. Practical resources and information will be available and can be easily incorporated into a daily routine. Long term solutions and other information also will be available.



Council Member Nina Trasoff (Midtown Ward 6) hitches a ride in the Harley parade in Tucson.

Energy Independence Days

Coalition member Dave Clement (CNG Services of Arizona) teamed up with his local Honda dealer to launch an ad campaign around the 4th of July advocating for energy independence with the use of compressed natural gas. Clement will have his CNG display at Pima Association of Government's Alternative Energy Expo in Tucson on Sept. 14 and 15 at the Tucson Convention Center. Visit:

tucsonaltenergyexpo.com



Clean School Bus USA extends deadline

The deadline for the Clean School Bus USA funding offered by EPA Regions 9 and 10 has been extended to Sept. 24. Full details of the opportunity are available via Grants.gov at <http://www.grants.gov/search/search.do?oppld=14488&mode=VIEW> and on EPA's Web site at <http://yosemite.epa.gov/R10/AIRPAGE.NSF/webpage/Clean+School+Bus>

US DOE Webcast

Colleen Crowninshield will be hosting U.S. Department of Energy's Webcast for the western region. There will be updates and notes from the West and a presentation by coalition member, Charles Yerkes, who will speak on EMTA-Whitesands diesel additives that can significantly reduce emissions without sacrificing fuel economy or power. Contact Tucson Clean Cities if you would like to be a part of the call on Aug. 29 at 12 p.m.

Chino Valley Biofuels

Bennett Oil in Chino Valley, near Prescott, is now offering B20 biodiesel blend at the pump along with E85 ethanol. Their grand opening will be on Aug. 24 and is open to the public.

Clean Cities Coalition Meetings

The next Clean Cities Coalition meeting is Aug. 22 from 2 p.m. to 4 p.m. at Pima Association of Governments, 177. N. Church Ave., in the 5th floor conference room. Our fall coalition meeting will be held at the same time on Oct. 24.

New logo and Café Press Website

The Tucson Regional Clean Cities coalition has a new logo. Be sure to check it out on the front of this newsletter or at our new online store at www.CafePress.com/CleanCities. This store has many products displaying the Coalition logo. If you are interested in personalizing any of the items by adding your own logo or Web address, please contact Sara at srajca@pagnet.org.

New Coalition Members

With the recommitment letters also came 13 new members to the Tucson Regional Clean Cities coalition. These new members include:

- Altar Valley School District No. 51
- U.S. Rep. Gabrielle Giffords
- Cummins Rocky Mountain LLC
- F. Ronstadt Co.
- The Fairfax Cos. LLC
- KLPX
- Nations Power & Light
- Natural Systems Solutions
- Pinal Energy LLC
- Pinaljet LLC
- District 26 Rep. Lena Saradnik
- The University of Arizona
- Whitesands LLC

E85 comes to Safford, Sahuarita

Two new E85 stations will open within the next few months in Safford and Sahuarita. Be sure to watch your inboxes for the press releases.