



Motors and Irrigation Efficiency Workshop

Wednesday, May 23, 2007

Mimbers Valley Learning & Special Events Ctr., Deming, NM
8:00 a.m. to 5:00 p.m.

Because motors and irrigation systems are a vital part of any farm and ranch operation, all employees must have a working knowledge of their use and efficiency. This course will expand your knowledge of how systems work together, what types are most commonly used, what factors affect efficiency and how to estimate monthly energy use. Controls, motor protection and the use of variable speed drives will also be discussed.

This course is designed for electric power suppliers and their customers.

Key account managers, customer service staff, operations personnel, farmers, irrigation suppliers, water, sanitation operators, well drillers and electricians will all find value in this training event. An unbiased discussion of fundamentals will be provided, with emphasis on practical "real world" applications. The course information will be presented in an easily understood format to accommodate many different levels of knowledge. Experienced personnel will be able to expand their knowledge and sharpen their skills. New employees or those with little irrigation experience will also gain essential information. A manual of valuable reference materials will be provided to each course attendee.

Class is free
Includes materials and lunch

Sponsors:



To Register

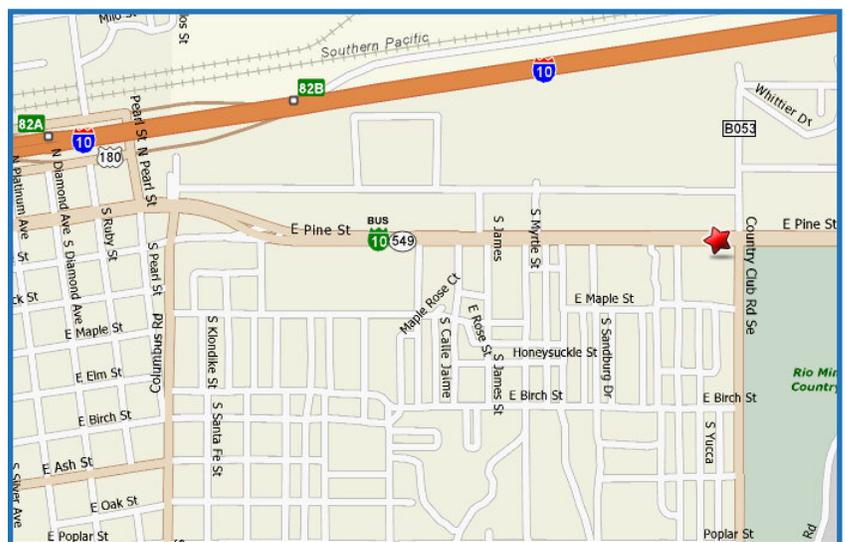
Contact Chris Martinez or Rachel Marrufo at 505-546-8838 or 800-950-2667

Registration Deadline:
May 9, 2007

Location

Mimbers Valley Learning & Special Events Ctr.

2300 E. Pine St, Deming, NM 88030



Lunch will be provided – Space is limited – Register early and receive a free CFL light bulb
(Please see list of nearby hotels on back side)



Motors and Irrigation Efficiency Workshop outline and agenda

Introductions & Opening Comments

- Course expectations & teaching method
- Group input on areas of specific need

Irrigation System Types

- The four basic types of systems
- Advantages and limitations of each
- Energy implications

Improving/Upgrading Energy Use of Existing Irrigation Systems

- I. How to determine existing efficiency
 - A. The pump
 1. Types, selection characteristics, adjustments, tests
 - B. Engines as power sources
 1. Basics of engine operations
 2. Fuel, maintenance, overhauls & costs

Refreshment Break

- II. Electric motors as power sources
 1. Basic principles of electric motors
 2. How they apply in irrigation
 3. Selecting the right electric motor
 4. Electric motors vs. internal combustion engines
- III. New motor/pump technologies

Operating Methods of Irrigation Systems to Reduce Electric Bills

- What can we control
- Control equipment needed
- How do we use the control equipment to reduce operating costs

12:00 Noon - 1:00 p.m. - LUNCH PROVIDED

How Can You Avoid Having to Run Three Phase Lines

- Written-Pole motors
- Phase converters

New Irrigation Technologies That We May See in the Future

Refreshment Break

Where to Keep Up on Best Practices Working with state & regional groups

Information Sources on Irrigation and Related Equipment

Funding Opportunities To Improve Efficiency

- Federal and USDA sources (Section 9006)
- State and Local Government sources (load control programs & rates)

4:45 p.m. - Adjourn for the day

Nearby hotels

Holiday Inn \$59.95 + tax
4600 E. Motel Dr.
546-2061
Restaurant & Lounge on site

La Quinta Inn \$79 + tax
4300 E. Pine St.
546-0600
Free Continental Bkfst. 6:30 a.m. - 9:30 a.m.

Grand Motor Inn \$38 + tax (Single)
 \$43 + tax (Double)

Hwy. 70-80 East
546-2631
Restaurant & Lounge on site

Comfort Inn & Suites \$84.99 + tax
1010 W Pine
544-3600
Free Continental Bkfst. 6 a.m. - 9 a.m.

Best Western \$85 + tax
1500 W Pine
546-4544
Free Continental Bkfst. 6:30 a.m. - 10:30 a.m.