



Kit Carson Electric Cooperative, Inc.

**Presentation to
Regional Development Council (RDC)
PANEL - SOLAR ECONOMIC
DEVELOPMENT FORUM**

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Kit Carson Electric Cooperative**

Kit Carson Electric Cooperative, Kit Carson Propane, Kit Carson Internet,



Kit Carson Electric Cooperative Electric Division



- Kit Carson Electric Cooperative, Inc. (KCEC) was formed in 1937 and incorporated in 1944
- KCEC serves members in Taos, Colfax and Rio Arriba Counties
- Number of Full Time and Part-Time Employees = 97
- Number of Members = 28,845
- Miles of Line = 2,591
- Fiber Optic Line = 44 miles
- 2007 kWh sold = 335,600,672
- 2007 Revenue = \$32,508,953
- KCEC headquarters in Taos and four District Offices (Questa, Ojo Caliente, Penasco and Angel Fire)

Kit Carson Propane



- Kit Carson Propane (KCP) was formed 10/23/00
- KCP serves members in Taos, Colfax, Rio Arriba, Mora and Santa Fe Counties
- Number of Full Time and Part-Time Employees = 18
- Number of Customers = 3,850
- 2007 Revenue = \$4,594,792.88
- Gallons Sold in 2007 = 2,225,457
- Bulk Storage = 300,000 gallons – KCEC owned
- Residential Storage = 700,000 gallons – KCEC owned
- Total Controlled KCP Storage = 1,000,000 – KCEC owned
- Approximate savings to Consumers (since 2000) = \$
\$ 26,427,217

Kit Carson Telecom



- Kit Carson Telecom (KCT) was formed in 1999
- KCT serves members in Taos, Colfax, and Rio Arriba counties with Wild-Blue availability throughout New Mexico
- Number of Full Time and Part-Time Employees = 9
- Number of Customers = 2,343
- 2007 Revenue = \$958,564
- Only Broadband Internet service provider
- Only Voice and Internet service provider
- Services Offered:
Dial up High Speed Telephony Computer Sales Free Public Access
Terminals

Kit Carson Electric Cooperative Renewable Energy

- KCEC currently purchases it's total renewable energy needs from Tri-State through an All Requirement Power contract.
- KCEC renewable energy is currently Wyoming wind power and Green Tags that are purchased on the market.

Renewable Energy (Cont) Statistics

- Currently, 1,728 residential consumers
- 4,896 Blocks subscribed = to 5,874,600 kWh of Renewable Energy sold as of March 18, 2008.
- KCEC ranks 1st in number of Customers & Green Power Blocks sold amongst all NM Co-ops @ 4,896 Blocks monthly
- In Tri-States System of (44 Co-ops) KCEC ranks 1 in number of customers and 2 in number of blocks subscribed

Renewable Energy (cont')

Clean Renewable Energy Bonds (CREBS)

- In 2006, Kit Carson Electric applied for and was awarded Clean Renewable Energy Bonds (CREBS) in the amount of Five Million Dollars (\$5,000,000);
- Kit Carson will utilize these funds to enhance Renewable Energy in Northern New Mexico;
- If all goals are met, Kit Carson Electric will be the largest Solar Energy Producer in the State of New Mexico (Target of 1.5 MW of Capacity by the end of 2008);

Renewable Energy (cont')

Solar Energy

- **Project: Solar Arrays Potentially Placed At:**
 - Domestic Water Associations
 - Kairos Institute of Sound Healing
 - Kit Carson Electric Cooperative Headquarters Facility
 - KTAO Radio Station
 - KXMT Radio Station
 - Molycorp Mine (Subsidiary of Chevron)
 - Northern NM Community College (El Rito and Espanola branches)
 - Penasco Schools
 - Taos Community Auditorium
 - Town of Taos
 - University of New Mexico Taos Campus
 - Village of Angel Fire
 - Village of Questa Industrial Park
 - Yaxche School
 - In addition to residential and other small commercial applications

Renewable Energy & Economic Development Bio Mass

- Partners
 - Forest Service
 - Town of Taos
 - BioCap
 - Southwest Bio Energy LLC
 - Nature's Accent
 - Kandiyohi

- Bio-Mass projects
 - Removal of Wood Slash, Trash, Organic Materials (i.e. beetle infested timber)
 - 20 MW Plants design
 - Renewable Energy Creation with use of heat waste (i.e. greenhouse application) The resulting sterile ash may be used as a filler for concrete, mixed with liquid asphalt for road repair, used for certain industrial or manufacturing operations, applied to farm fields or land filled, if absolutely necessary, depending on local needs and state regulations.

Renewable Energy & Educational Partnership Opportunities

- **University of New Mexico**
- **Northern New Mexico Community College**
- **Local School Districts**
 - **Taos**
 - **Questa**
 - **Mesa Visa**
 - **Penasco**
 - **Cimarron**

Potential Impediments for Further Development and/or Implementation of Renewable Resources

- All Power Requirement Contract with Power Supplier Tri-State G & T, only at 5% requirement with restrictive terms
- Technology Advance (Storage for example)
- Need to Expand Markets
- Federal, State and Local government involvement
 - Green Building Standards
 - % renewable obligation
- Currently No local renewable projects of scale by Cooperatives

Potential Impediments for Further Development and/or Implementation of Renewable Resources (Cont'd)

- Wind Power, Solar, Biomass, Fuel Cells
 - Visuals, Wind Regimes, Local Code Regulations
 - Economies of Scale
 - Federal Agencies
 - Forest Service
 - BLM

Kit Carson Electric Energy Efficiency Programs

- Time of Use Rates and Incentives
 - Electric Water Heaters = 600 kW of Off Peak
 - ETS units = 3.2 MW to Off Peak
 - Rebates = \$100,085 YTD
 - Introduction of Smart Metering Program 49% complete
- In 2007 KCEC implemented a Compact Fluorescent Lighting (CFL) Program - to date KCEC Bulbs for resale sold 5700 bulbs
 - Sold 45kW that replaces 175kW of incandescent for a net savings monthly of 130kW from the peak
- Free Energy Audits for all schools
- Infrared Camera (Weatherization)
- Safety Presentations provided to all schools, fire department, police department and other agencies/organizations

Kit Carson Electric Community Programs

- KCEC Education Foundation was incorporated in December 1996 to provide scholarships. To date a total of 366 scholarships have been awarded; a total of \$ 391,850.
- Government in Action Youth Tour to Washington D.C.
- Computer Financing

Kit Carson Electric Cooperative
Diversification, Renewable Energy, Energy Efficiency,
Community Programs & Economic Development
Looking into the Future

1. Economic Development

1. Creates Jobs
2. Diversifies Local Economy
3. Promotes and Advances New Technologies

2. Renewables

1. Introduce Environmentally Friendly Power Supply
2. Sustainable Products
3. Affordable Housing – Solar model homes
4. Diversifies Energy Portfolio
 - a. Helps to off-set fossil fuels usage, dependence on foreign oil and fossil fuels