



Fowler's Green Initiative

the past, present, and future of sustainability

Fowler, Colorado

- Located in Otero county.
- 33 miles east of Pueblo, Colorado.
- 75 miles southeast of Colorado Springs, Colorado.
- 1,206 residents and growing.
- 4,340 feet above sea level.

Where we started...

- **Looking at the past.**
 - Thriving community 1900 – 1950s
- **Analyzing the present. (two years past)**
 - Stagnant with many assets.
- **Planning the future.**
 - Comprehensive land use plan. (Completed 01/09)
 - Sustainability with renewable energy.
 - Wind
 - Solar
 - Geo – Exchange
 - Biomass

Where we want to go...

Stabilize/Reduce/Eliminate Utility Rates

- **Park school renovation. (built in 1905)**
 - Why not utilize current technology?
 - What about wind?
 - Why not solar?
 - Geo Exchange? Ground source heat pump?
- **Are there other assets?**
 - Feedlots!
 - 2,400 tons of manure per day at a minimum.
 - Potential to produce 1-4MW per feedlot.

Paper vs. Hardware



Study?
No!

Act?
Yes!



Work History

- **Developing working relationships**
- **Green alternatives:**
 - **Discussions with national labs, equipment developers, Universities, community, utility providers, local Gov't, State Gov't, Federal Gov't and private developers**
 - **Concept to implementation**
- **Assessment of energy needs for Fowler**
 - **Region**
 - **County**
 - **Town**
 - **School District**
 - **Residents**
 - **Business**

Progress to Date (05/09)

- Financing groups established
- Research/Business Plan/Proforma complete
- Public/private partnerships in place
- Bio-solids marketing companies identified
- Local/Regional feedlots
- Solar behind the meter
 - May 2009 (600 kW)
- Anemometer Data
 - 20 months of data
- Conservation
 - Community Education



The Future of Fowler

- **Regional Feedlot project**
- **Geo-Exchange for historic building (2010)**
- **Solar-powered LED lighting in Park (2009)**
- **Solar-powered School District & Town (2009, 2010)**
- **Reduced/stable utility costs (school district 2009)**
- **Bringing sustainability to Fowler and Colorado**
- **Comprehensive Land Use Plan (2009)**
- **Economic Development (ongoing)**

The Future of Fowler (cont.)

- Waterless solar powered toilets in park (2009)
- Development of Wind Power (2010)
- Recycling of residential waste (2010)
- Conservation education (ongoing)
- Eliminate Utility Cost with the exception of maintenance (2014)

Thank you, questions?

Fowler, Colorado

A great place to grow.

