Colby Community College "Get a Jump Start!"





CCC Wind Energy Journey

- 1. Partnerships
- 2. Course Development
- 3. Media Development
- 4. Funding

1. Wind Energy Partnerships

Wind for Schools Program
Accepted Spring 2009
Different Twist

(7) local high schools participating

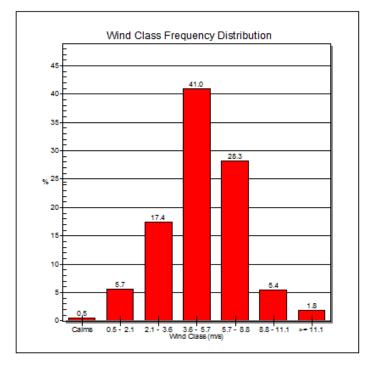
Spring 2010 construction

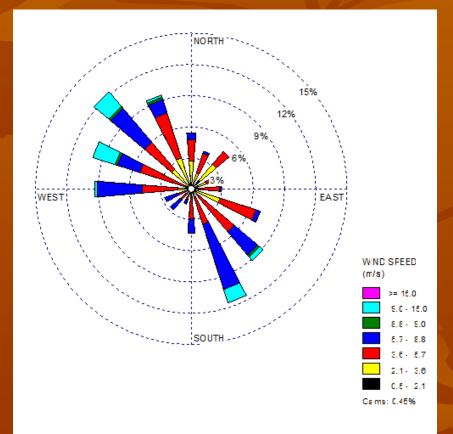
Anemometer Tower

Partnership K-State, Midwest Energy, **KSU** Extension Service July 2009 KSU students ■ Use



NRG Data





Regional Small Wind Turbine Test Site

 Partnered with K-State, Midwest Energy, KSU Extension Service
 Proposal NREL 12/8/09

 (4) Regional Test Centers certify small wind turbines



NWKS Regional Energy Collaborative

Dan Hartman

- (2) years ago
- Collaborative group of (18) counties
- Educate/promote wind energy development
 - Wind Energy Conferences
 - April, 2009
 - April, 2010



Practical Landowner Information On Wind Energy

Colby Community College, Cultural Arts Center

April 3, 2009...Friday 10:00 am to 1:30 pm Lunch will be provided Speakers: Dan Hartman, Facilitator of NW KS Energy Collaborative & Economic Development Director, Logan County Don Teske, President, Kansas Farmers Union Bob Crangle, NWKS Collaborative attorney Jennifer O'Hara, Lincoln county attorney Mike Irvin, Farm Bureau Legal Foundation Dan Nagengast, President, Kansas Rural Center Topics: Information pertinent to landowners in NW Kansas Lease arrangements Agricultural Implications Community Wind

Fee: \$10.00 This will be excellent information, don't miss it!

Further Information: Barry Kaaz Colby Community College 785-460-5429

Preregister at www.colbycc.edu/ Or Contact Kathy Cayton at 460-5413

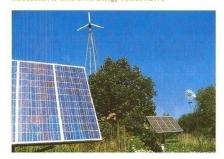


Private Industry/Governmental Partnerships

- Acciona
 - Wind Energy
- WinSoHy
 - CAES
- Colby Implement (John Deere)
 - Wind Energy
- Woofter Pump & Well
 - Geothermal
- Kansas Sierra Club
- United States Air Force Academy
- Numerous letters; county commissioners & economic development directors

2. Course Development

AE176: March, 2010
Intro: Wind, Solar, Geothermal, BioFuel
(3) hr in Fall, 2010 Renewable Energy Initiative



When: March 15-March 19, 2010

Where: CCC Campus, Bedker Memorial Complex, room 710

What: (1) Credit Hour Course

-Wind power big & small, solar power, geothermal, biofuel/bioenergy, magnetic generation
-Guest speakers with presentations and field trips
-First evening: Large wind turbines & community wind, power purchase agreements
-Bratalation
-Installation
-Net-metering
-Federal and state tax incentives
-Third evening: Trip to Oasis Travel Center, Colby, for geothermal presentation
-Hydroelectric generation
-Fourth evening: Biofuel, biomass, bioenergy-Fast-food power!
-Animal waste power!
-Switch grass & town dump power!
-Fifth evening: Power of magnetism to power your home
-

More Information: Contact Tom Moorhous at 785-460-5534 or

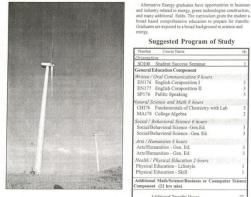
Barry Kaaz at 785-460-5429

Course Development (cont)

Associate of Science

Alternative Energy

Associate of Science: Alternative Energy





E200 Employability & Safety Skills

AE210 Acmusition & Site Research & Selec Foundation & Site Preparation AE230 Financial Analysis Wind Tower Construction AE240 Data Stream Analysis BU142 Theory of Leadership in Business nimum credit hours to graduate

Suggested Program of Study



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Wind for Schools SkyStream 3.7 Construction Online Courses Intro to Wind Project Management Alternative Energy

Design, Install, Manage

3. Media Education

Media

For optimal viewing, please right click on the links below and save to your computer to listen.

Podcasts:

Wind Energy

Energy Efficiency Technology

Videos:

Governor Parkinson on Transmission

Governor Parkinson talks on last 10 years

Governor Parkinson talks on Individual Wind

Michael Eckhart ACORE Transmission and Solar

NWKS Regional Energy Collaborative Videos Featuring Dan Hartman

Part 1: Overview

Part 2: Knoll-Burlington Transmission Line

Part 3: CAES Systems

Part 4: Northwest Kansas Development

Part 5: Northwest Kansas Wind Center

Scout Powwow



4. Funding

Kansas Board of Regents Technology Grant
\$33,000
Title III Online Course Development
\$1.8 million
Kansas Department of Commerce
Recent \$6 million award