



Tuesday, March 9, 2010
Agenda

(Revised at the request of Rocky View County)

1. Welcome, Introductions, Opening
Comments, Meeting Objectives & Agenda Wayne
Shuttleworth
(5 minutes)

2. Updates
 - County of Rocky View – Cont'd Pipeline Development Discussion Richard Barss
(20 minutes)

 - TransCanada (15 minutes)
 - ERCB
 - City of Calgary
 - EnCana
 - Nexen Inc.
 - Other

3. Approval of Previous Meeting Notes All
(5 minutes)

4. Presentation
 - A) Wind Power Presentation Justin Thompson
 - Questions Joss Wind Power
Inc. (60 minutes)

5. Community Issues, Updates &
Announcements All
(10 minutes)

6. Closing Comments Wayne
 - Next Meeting – April 13th Shuttleworth
 - Future Meetings – May 11th & June 8th (5 minutes)

Please sign the meeting register before you leave. Thank you.

Balzac Community Advisory Panel (BalCAP) Meeting
Balzac Community Hall
Tuesday, March 9, 2010

Approved April 13th, 2010

Attendees:

Mike Dingle - Nexen Inc.	Keith Greenaway – Nexen Inc.
Lynn McQueen - Nexen Inc.	Wayne Shuttleworth – Community
Paul Siller – Rocky View Handi-bus	Kim Currie – Encana
Roy Hanson – Enmax Calgary Energy Centre	Susan MacDonald – ERCB
Ian Jerrard – TransCanada	Kitch Milford – Enersul
Richard Barss – County of Rocky View	Woody Ouder Kirk – Woody’s Wooden Fences
John Church - Community	Randy Case - Community
Kit Rowley – Wagon Wheel Industrial Park	Gary Clark – Community
Keith Graham - Community	Nancy Lowrey – Community
Roger McIntosh – Community	Darrell Miller – Community
Dorothy McCreary – Community	Linda Murphy – Community
Weldon Stacey – Community	Keith Graham - Community
Roger MacIntosh - Community	Ken Young – Community
Allan Fraser – Community	Brenda Gray - EXPX Energy Services
Bill Gourley – Nexen Inc.	Vern Bretin - Community
Patricia Poulton – TransCanada	Andy Marshall – Encana

New Faces and Guests:

Justin Thompson

Facilitator:

Wayne Shuttleworth

Scribe:

Jaymie Richardson

1. Welcome, Introductions & Opening Comments

- Wayne welcomed everyone to the meeting.
 - Brief introductions were made for the new faces in the crowd.
- Wayne reviewed the agenda for the evening.
 - The meeting objective is to receive organizational updates,
- The notes from the February 9th were reviewed.
 - The notes were approved as distributed.

2. Organization Updates

- Nexen
 - Keith advised that group that it has been another busy month at the gas plant.
 - Nexen Balzac just completed an ERCB audit which was a fairly in-depth audit. Three inspectors came to the site to conduct that audit. There were only 3 low risk findings that were noted in the final report.

Keith Greenaway

- Since last month's meeting, there have been 3 odor complaints, one was a sulphur odor which was vapours from our remelter, another from a well abandonment and the third due to a tank spill which occurred at the plant.
- The plant experienced a tank spill about 3 weeks ago, this resulted from a transmitter failure on our condensate tank. There was approximately 6000 litres of condensate spilled into the surrounding tank containment. The spill was successfully cleaned up within 72 hours.
- The plant has hosted Incident Command and Arch Flash electrical training for several of the plant personnel.

- EnCana **Andy Marshall**
 - Andy Marshall announced Encana has finished drilling 111 new drills, since December 2009.
 - All completions / tie ins have not been completed due to spring breakup and will likely be pushed out until May of 2010 at the earliest.
 - The stats for February were: 39 drills completed, 23 completions, tied in 13 wells and tied in 21 re-completions.

- TransCanada **Ian Jerrard**
 - Airdrie Chamber of Commerce and TransCanada are working together to design a road side billboard along on the highway which will portray a message related to safety around the subject of pipelines.

- Rocky View County
 - No report.

- City of Calgary
 - No report.

- CrossIron Mills
 - No report.

- Calgary Energy Centre **Roy Hanson**
 - Roy advised the group of the major planned outage ongoing at the Calgary Energy Centre, which is expected to run 45 days. Contractors are parking at Ranchers Beef and being bused to site.

- ERCB **Susan MacDonald**
 - Midnapore field office has now moved, in Sunpark Plaza.
 - Susan spoke of the CNRL well blowout near Hythe (outside of GrandPrairie approximately 19 km NW of Hythe).
 - Since the blow out the well has been on fire.
 - There are 7 air monitoring units around the area and there have been no hydrogen sulphide or sulphur dioxide detected off-site.
 - An investigation has commenced on the incident and once the findings have been completed, the information will be published on the ERCB website.
 - Throughout the incident, there was no threat to public safety, and no workers were injured.

- Susan also shared with the group that on March 8th, the ERCB approved a plan to gain control of the well. The primary part of the plan is to install blowout preventers, the secondary approach is to drill a relief well to stop the blowout and drilling of the relief well is currently underway.

- Q) How deep is the well?
- A) Approximately 3000 m.

IDENTIFIED ACTION ITEMS	ASSIGNED TO	DUE BY

3. Presentations

A) Wind Power Presentation

Justin Thompson

- Joss Wind Power Inc is working with Nexen on the Handhills project by Hannah, Alberta
- Reasons why to pursue wind power, does not create emissions, doesn't use water, there are no upstream impacts, there are no fuel costs so there are no price spikes, wind energy creates significant revenue for farmers and significant and dispersed tax base for rural areas and the wind is a resource that will be with us always, so learning how to capture its energy will have long term benefits.
- Average house will produce 6.5 tonnes of CO2 per year based on the average electricity consumption.
- The steps to prospecting and developing the towers are: choose the prospective site, option the land, put up a meteorological tower,
- They do sound mapping which is required by the EUB that shows that the noise produced will be less than 40 db to the surrounding residents.
- Common myths about windpower are: in order to create significant energy via wind mills, then you would need to cover the whole country side with turbines. Wind turbines kill large number of birds and bats, that energy it takes to make a wind turbine is more than the turbine ever produces and wind can never make significant energy.....
- Wind energy uses approximately 2% of the land, which allows for farming right up to or very close to the base of the turbine.
- Bird deaths as a result of wind turbines is drastically lower than those that occur due to buildings/windows, high tension lines, cats, vehicles, pesticides or communication towers.
- Bat deaths are still not well understood and new mitigation techniques seem to be having some success.
- The energy that it takes to make a wind turbine is made up within the first year of energy production from the turbine.
- The wind is variable but depending on the mix of energy sources on a grid up to 20% is possible.

- The price of wind power depends on location but in many cases.....
- Wind could make a significant contribution for energy needs (approx. 5 – 20%)
- Contribution may increase if the investment in transmission occurs and we move to electric transportation and/or “smart” power usage.
- There are still significant myths that exist about wind power in the general public in Canada.
- Despite naysayers, there is a good chance that the wind is here to stay as part of our long term energy mix

Q) What is the decibel for the sound from a turbine?

A) The turbines range from 103 – 107 db at the turbine itself the Alberta Utilities Commission (AUC) required is to be no more than 40 db outside adjacent residences.

Q) Are your sites all provincially approved?

A) Development permits are required from the municipality when installing a wind turbine. AUC approval is required for all wind farm facilities.

Q) What is typically the payback for the capital cost compared to the lifespan?

A) It takes about 10 years for the payback and they are amortized over 20 – 25 years.

Q) How deep of a piling do you need to install the turbines?

A) It would depend on what your sub-surface conditions are. Some foundations are shallow and wide and others narrow and deep. Some of the foundations will go down 30 feet.

Q) What happens after 25 years when the turbines are...

A) Electrical infrastructure will likely last 50 – 60 years, there is an option to have the wind farm re-tooled, however typically, they will remove the turbine and cut the top of the foundation off returning the location to the way it was to begin. Most leases are for 50 years.

Q) Did you say the propeller is a constant speed regardless of the wind speed?

A) Different turbines regulate differently, but mostly it is the blade pitch. The tip of the turbine blade spins at approximately 240 kms/hr

Q) What kind of material do they use for the blades and the housing? Does it always have to be something heavy or could it be made of fiberglass.

A) The blades are actually made from fiberglass.

- Q) Why are the blades so long, why couldn't the blades be shorter and rotate faster.
- A) They are designed this way to capture as much energy as possible.
- Q) What is the difference between the historic windmills you see in Holland in comparison to the ones we use now?
- A) The historic windmills were used more for pumping water or grinding which required more torque vs. modern windmills which are used to drive a gearbox and generator.
- Q) Where is the equipment built?
- A) Denmark, Germany and the US are leaders however, parts come from various different places and the blades are manufactured in the US and there have been some efforts to manufacture in Canada.
- Q) In residential areas you see big solar developments which subsidize energy in those residential areas. Is it possible to see development like the wind power in residential areas?
- A) It is possible, however the most cost effective way to produce wind power is to find a really windy site and tie into the grid. It is the most efficient way which keeps the cost down as well.
- Q) Do they use technology similar to a helicopter blade?
- A) There used to be equipment that did have the vertical blades, however they did not produce as well as the larger 3 blade turbines you see now.
- Q) You mentioned that the cattle were attracted to turbines, what is it that they like about the turbines?
- A) It is mostly the windbreak that the cattle are drawn to with the wind turbines and the chance to rub on the tower.
- Q) Do you know what the US tax incentives are?
- A) Right now there is 30% capital rebate on the cost of wind projects.
- Q) Has there been any research done around societal norms and what society would be willing to accept for paying
- A) There are a lot of people out there trying to sell wind power at a premium. There are a lot of studies that say that people are willing to pay a premium however not much follow through. Most of the wind power going on line now is not being sold as green power.

B) Water Pipeline Development Discussion

Richard Barss

- Development of the East Balzac Water Transmission status as of February 25, 2010
- In 2007, Alberta Environment approved the transfer of 6000 m³ a day of water from the Western Irrigation District to Rocky View County

- WID intends to replace approximately 50 kms of Canal, which through reducing evaporative loss and leakage will equal the amount of transferred water.
- Water will be removed from the canal at Graham Creek and stored in a reservoir. It will be treated in a newly constructed treatment plant.
- Water will move along the 600 mm pipeline down Township road 264
- At RVC website under 'County Matters' the timing of road closures will be provided..
- Transmission line will be completed by April of this year.
- Overall the treatment facility, reservoir, should be operational by June of this year.
- The water line is considered a transmission line, which is a direct line to the Balzac Reservoir. There are no opportunities to tap into that line.
- Water is distributed into the industrial area with the proposed Rocky Creek residential project as the only serviced residential development..
- The line varies between 600 and 400 mm in size.
- Has to be able to deliver 15000 litres per second for 3 hours – for fire flows.

Q) Where will the water come from?

A) The water will come from the Bow River via the WID canal.

Q) The water line going on 262A on the south side, is it correct that there is already a line there?

A) Yes there are two lines there, one is the transmission line and the other is the distribution line.

Q) How will the county recoup the total costs?

A) There are two costs associated with this. There are capital costs and the operational costs. Developers are being charged \$25000 an acre which includes the purchase of the license, transmission line, reservoirs and treatment plants. The developers are paying 100% of the capital costs. Operational costs will be paid by the users through a monthly water bill.

4. Community Issues, Updates and Announcements

- Hall has booked the Great Canadian Barn dance – Saturday, April 24th. The evening will include a meal, the show and then dancing afterwards. The cost is \$50/couple. If anyone is interested please contact Gary at 403-293-6148.
- Contact list has been issued and is here in case anyone would like copies. Lynn will be sending out an electronic copy and will determine if it is going to be placed on the website.
- Rudy's equipment for the farmers now has a facility open in the Wagon Wheel park.
- Just a reminder to please try and encourage your neighbors and friends to come to the meetings.
- **Next Meeting**
- April 13th at 7:00 p.m. at the Balzac Hall.
- Future meeting dates: May 11th & June 8th.