



ENHANCE
ENERGY INC.

Newsletter • November 2012 • ISSUE 6



A Note from Susan Cole, President of Enhance Energy Inc.

As we come to the end of the calendar year, many of us are settling in for the cold. It is usually Spring that represents new life, but for Enhance Energy, this year it is Winter. We are full of excitement and gearing up for new activity. As you may have heard, the North West Sturgeon Refinery has recently received final board sanction for construction from both of its partners, North West Upgrading Inc. and Canadian Natural Resources Limited (www.nwrpartnership.com). This is a significant milestone for them and one in which we at Enhance Energy also celebrate. As we continue to progress towards construction of the Alberta Carbon Trunk Line (ACTL), having a more definitive timeline from one of our initial CO₂ suppliers is a key development.

We also take tremendous pride in providing a CO₂ solution for the North West Sturgeon Refinery. It will be the first refinery in the world to incorporate CO₂ capture in the initial design. And with the help of the ACTL, the facility will capture 1.2 million tonnes of CO₂ per phase that we will use for enhanced oil recovery (EOR). We look forward to being part of such a great Alberta success story.

CO₂ as a Resource in Alberta

Every time you hear about CO₂ it is usually connected to negative connotations and often referred to as an environmental waste or liability, or even "dirty". But to us at Enhance, we see CO₂ as a resource and the key to unlocking significant potential in Alberta.

Although there is no lack of CO₂ in Alberta, the unfortunate part is that it is not currently in a pure and capture ready form that can be used in EOR. CO₂ must be at least 95% pure to allow for miscibility with the oil to make the EOR project work. So what does that mean? It means there need to be better ways of making facilities CO₂ capture ready. As we move forward with industrial development in Alberta, we are optimistic that new projects will need to be focused on creating capture ready CO₂ streams. This will allow for better emission management. As the infrastructure is put in place, the ACTL will create economically viable solutions for the effective management of industrial CO₂ emissions. Not only will the ACTL serve to reduce emissions, but it will be the first step to growing the EOR industry in Alberta.



Tim Benko, Project Manager, with Agrium CO₂ compressor volutes



BLAIR EDDY,
Vice President, Operations

Project Update

Even though things may seem quiet at the field level, we have been busy continuing to progress the design and execution of the ACTL project. Extensive design and planning is required to prepare for the execution of this major project. Significant progress continues in all components of the project, the Agrium CO₂ Recovery Facility, North West Redwater Refinery CO₂ Recovery Facility, the ACTL pipeline system and the Clive EOR/CCS system.

We have completed detailed engineering and ordered the majority of equipment for the capture and processing of the Agrium CO₂ volumes. The equipment is in various stages of manufacturing and fabrication, with a significant amount of the work being conducted here in Alberta manufacturing and fabrication facilities. Site preparation and construction activity will start to ramp up towards the end of 2013.

Equipment design for the NWR facility is being finalized and the procurement process will start soon. The ACTL pipeline system design and construction drawings are almost completed. The pipeline valves are presently being manufactured, and the pipe specification has been finalized.



COREY KUSCH,
Surface Land Manager

ACTL Clearing Plan

Coming up in the first few months of 2013, Enhance plans on starting some of the preparation work on the ACTL. At certain portions along the Right-of-Way, Enhance will be engaging with landowners to set up a time to discuss the clearing plan activities. The intent at this time would be to have the trees and brush cleared

and the odd fence either moved or repaired.

Once all the affected parties have been contacted and the planned activities and methods have been discussed and agreed upon, contractors will then begin to complete these tasks in preparation for major pipeline construction intended to take place in 2014.

We look forward to talking with those who are involved in the coming months. Should you have any questions with respect to the clearing plans or any other project details please do not hesitate to contact me at 403.984.0212, or Rick Sampson, Field Project Coordinator, at 587.989.8151.



Agrium tie-in



www.facebook.com/ACTLProject

Receive this newsletter electronically. Send us an email with your details and we would be happy to add you to our e-mail distribution info@enhanceenergy.com

To learn more about Enhance Energy or the ACTL project, please visit our website at www.enhanceenergy.com. For more information on CCS go to www.solutionsstarthere.ca



Printed on Lenza PC100. 100% post-consumer fibre. Process chlorine free, FSC® recycled. Manufactured using 89% bio-fuel.

GRAPHIC DESIGN: WWW.CREATIVECAPTURE.CA



ENHANCE
ENERGY INC.

Enhance Energy Inc.
900, 333 5 Avenue SW
Calgary, Alberta T2P 3B6 Canada

T 403.984 0202 F 403.984 0226
E info@enhanceenergy.com
W www.enhanceenergy.com

To reach Enhance Energy out of normal office hours call: **1-866-941-6025**