

About Us

There have been many exciting developments since our last newsletter! *The purpose of these newsletters is to keep you updated on the developments Energrow is undertaking, along with providing related agricultural information for your enjoyment.*

As a business specializing in farm-scale vegetable oil presses and production systems, Energrow Inc. enables farmers to press their own crops (oilseeds) and produce their own feed and fuel directly on the farm. Energrow's eco-friendly press, the EE 3700, creates two main bio-products: meal (a palatable animal feed high in natural proteins and energy) and vegetable oil (a value-added product). The pure vegetable oil produced by the Energrow system has a variety of uses ranging from eco-friendly fuel for tractors and generators to lubricant and a feed additive.

Energrow's focus is to help local farmers obtain the most value from their crops and save on feed, electrical and fuel bills.

We are committed to farmers and aim to benefit farmers by:

- offering a reliable and self-sustaining product
- enabling farmers to take control of their own commodity through the direct on-farm production of feed, fuel, and electricity
- providing a next best alternative to wholesale crop liquidation
- reducing operational costs (incl. production and use of feed, fuel, and electricity)



Energrow Cold Screw-Press

Official Product Launch a Success

Energrow Inc. officially launched its eco-friendly and cost-reducing farm technology on Saturday, May 17, 2008 at its facility in Newton, Ontario. The honourable John Wilkinson, Ontario Minister of Research and Innovation, Don McCabe, OFA Vice President, and Ed Danen, President of Perth County Federation of Agriculture, spoke at the ceremony, prior to the unveiling of the Energrow system. Despite the unpleasant weather the event attracted over 300 people.

"This is the future of farming," says Don McCabe, OFA Vice President. "Fuel prices are just going to go up and it's time farmers looked at the options." Jasmin Hofer, CEO of Energrow states that "an Energrow system benefits more than just farmers. Its durable and energy-efficient press produces an eco-friendly, carbon neutral fuel -- straight vegetable oil, which helps reduce harmful greenhouse gas emissions." For farmers, the Energrow system provides increased flexibility and a reduction of day-to-day operating costs including external processing; transportation and fuel, feed, and even electrical bills. "What an accomplishment" says John Wilkinson, MPP

"that a value-adding technology can be produced so close to home."

Not only has Energrow been able to celebrate the release of its system, but the local company has also been recently recognized as a winner of the Premier's Award of Agricultural Innovation. "This is an exciting time," says Hofer, "we look forward to a future where a system like this is considered a normal piece of farm equipment and farmers have control over their own commodity!"

Ashley Smith



Photo compliments of Carl Hiebert

ENERGY ECHO QUARTERLY

Q & A

There were many great questions that came up at the open house and we've decided to follow-up on some of them in each of our upcoming newsletters:

How many Metric Tonnes (MT) can be processed in one year using the EE3700?

The outputs are based on type and quality of the seed that is being used. The press has the capacity to process approximately 1 MT of raw seed in 24 hours, however it would be good to assume 5 to 10 days of down-time per year for factors such as maintenance, repair, unit relocation, etc. Therefore, in one year, the maximum you would likely be able to process would be 355 MT of seed.

What electrical costs will I expect?

The Energrow EE3700 runs using 220V (1 or 3 phase) power and is driven by a variable speed AC motor. It is very energy efficient, requiring approximately \$10- \$12 CAD of electricity to process one tonne of raw seed in a 24 hour period.

What is the life expectancy of this machine? What are my expected yearly maintenance costs?

The Energrow press life expectancy depends greatly on how the press is used and maintained. Improper use can significantly reduce the lifespan of the machine. Under normal conditions, one can expect to spend a minor amount of time cleaning to maintain the unit. The wear components are expected to last a minimum of 2-3 years, while the main components should last a minimum of 10-15 years depending on application. The parts can be purchased new or you can take advantage of the Energrow replacement program in which refurbished components can be exchanged to minimize cost. All Energrow products are covered by a limited one-year product warranty.

When do I break-even?

The payback period of an implemented system depends greatly on how it is integrated. For example, a farming operation with both crop and livestock would likely see a much faster break-even than a cash crop or hobby farm. This is due to the direct on-farm savings in feed, fuel, and even electrical costs, requiring no external processing or transportation costs. Both the meal and oil produced create a value equivalent to the market price of meal and oil. As an example, a dairy farmer with 150 cows using 50 acres of soybeans every year could realize a break-even in 3 years if both products are utilized directly on-farm. This break-even could be reduced even further if the producer would do custom or specialty processing. **Contact us for a break-even calculator sheet to see how a system would work for you!**

MORE Q&A to come!

Have more questions you would like to see answered?

Contact us and we'd be happy to answer them!

What does an Energrow system look like?

Size:

Energrow tanks are about the size of 2-3 refrigerators on top of which the press sits.

Capacity:

1500L oil storage in sedimentation tanks. The press processes approximately 1 Tonne of seed per day.

Features:

- Rugged design – built to last in a farming environment
- Simple installation and easy to service
- Mobility offers flexibility in processing location
- Ability for specialty crop processing (oil separation)
- Filters are built directly into the side of this mobile unit to ensure fuel grade quality of the oil straight out of the system



How does an Energrow System help me save or make money?

Meal Production

Saving Opportunities

- Buying meal at retail
- Soybean roasting costs
- Transportation costs
- Processing/ storage fees

Income Opportunities

- Sale of excess meal produced
- Custom processing (GMO, Non-GMO, Organic markets)
- Milk/ Weight Gain in Cattle

Oil Production

- Buying diesel at retail
- Diesel fuel consumption
- Transportation costs
- Feed energy supplements

- Sale of excess oil produced (industrial lubricant, fuel, organic food, animal feed markets, etc.)
- Milk/ Weight Gain in Cattle

NOTE: There is a higher value in expeller processed meal than solvent extracted meal due to energy and natural nutrient content.

ENERGY ECHO QUARTERLY

Humour from the Funny Farm

Settling a cow case

A big-city lawyer was representing the railroad in a lawsuit filed by an old rancher. The rancher's prize bull was missing from the section through which the railroad passed. The rancher only wanted to be paid the fair value of the bull.

The case was scheduled to be tried before the justice of the peace in the back room of the general store.

The attorney for the railroad immediately cornered the rancher and tried to get him to settle out of court. The lawyer did his best selling job, and finally the rancher agreed to take half of what he was asking.

After the rancher had signed the release and took the check, the young lawyer couldn't resist gloating a little over his success, telling the rancher, "You know, I hate to tell you this, old man, but I put one over on you in there. I couldn't have won the case. The engineer was asleep and the fireman was in the caboose when the train went through your ranch that morning. I didn't have one witness to put on the stand. I bluffed you!"

The old rancher replied, "Well, I'll tell you, young feller, I was a little worried about winning that case myself, because that darned bull came home this morning."

Source: <http://www.ahajokes.com/farm002.html>

Did you know?

Soybeans are a main part of Chinese, Japanese and Korean diets? Soybean meal, or more specifically, soy pulp, also known as "okara" is used in many dishes in the areas surrounding the Orient.



Q: When is a farmer like a magician?

A: When he turns his cow to pasture.

Q: Why did the farmer call his pig "Ink"?

A: Because it was always running out of the pen.

Q: What do you call cattle with a sense of humor?

A: Laughing stock.

Thank you Readers!

Thank you for your support and interest as Energrow is growing. We want to ensure that both our current and future products and services suit the needs of the farmer. If you have any suggestions, ideas, or comments we would very much appreciate hearing from you. Please contact us using any of the following means:

E: info@energrow.ca

P: 519.595.8299

F: 519.595.2967

For a system tour, please book a time with us!

Funding for this project was provided in part by Agriculture and Agri-Food Canada through the Agricultural Adaptation Council's Biofuels Opportunities for Producers Initiative (BOPI) Program, Perth Community Futures Development Corporation (CFDC), as well as the University of Waterloo.



Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada



Government
of Canada

Gouvernement
du Canada



www.energrow.ca

Looking for research articles on straight vegetable oil (svo) as a fuel? Check out our resources link!

energrow inc.

Road 128 (7389)
Newton, ON N0K 1R0

Phone:
519.595.8299

Fax:
519.595.2967

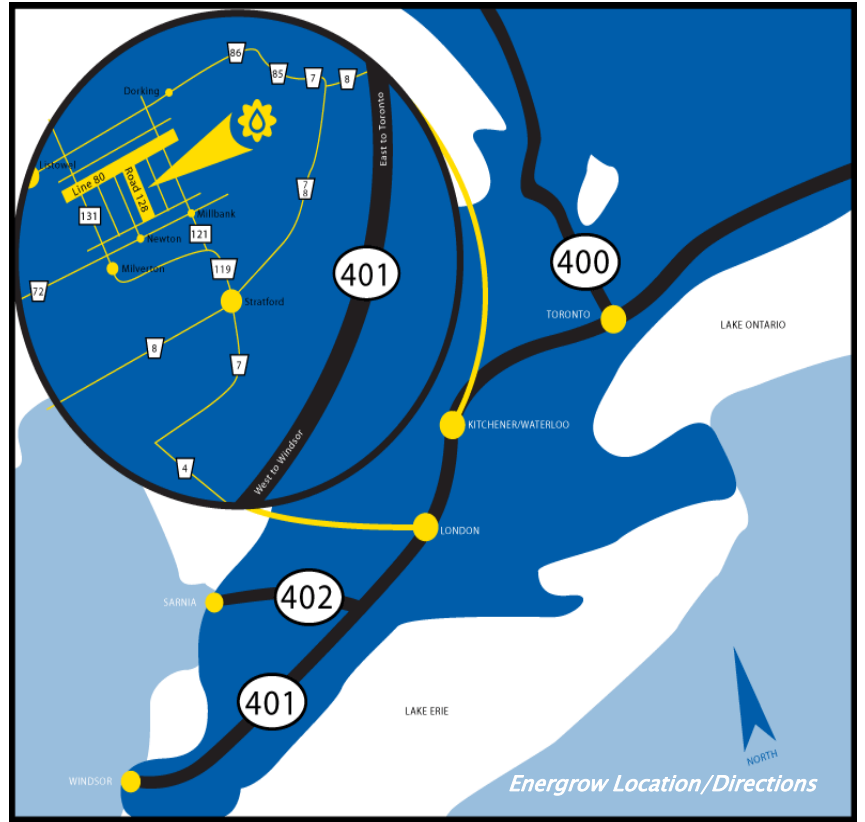
E-Mail:
info@energrow.ca

energy as nature intended

We're on the Web!

Visit us at:

www.energrow.ca



Energrow Inc.
Road 128 (7389)
Newton, ON N0K 1R0



Name
Street
City, ON
Postal Code