

DariLife

NEWSLETTER

DARITECH
Cows • Land • Passion

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Dedicated to Livestock and Manure Handling in the Pacific Northwest

With summer upon us, it's a perfect time to address the irrigation and manure application needs of your crops and fields. DariTech's systems include all types and brands of pumps such as electric and diesel drive, deep well and end suction, as well as PTO pumps for your lagoons.

We carry all sorts of pipeline materials, from specialized fittings to complete mainline systems, including risers, PVC pipe, layflat hose and all of the associated parts and pieces.

Radio controllers operated from the tractor, or practically anywhere else on your dairy, allow for efficient and effective application to meet your specific goals.



Whether you're pumping water or manure, DariTech has a means of getting the job done. Through the use of one of our travelers or hose reels, we can customize your operation to best fit your operating needs. See the "What's Hot" section for more on Acurain reels built by DariTech.



IN THIS ISSUE

Guest Column

We would like to thank the Oregon Energy Trust for their article on how to manage energy costs (**page 2**).



Composter at Faber Dairy



See what the update is with DariTech's new BeddingMaster that's been up and running at Faber Dairy. Learn all about how you can buy and save at the same time on **page 6**.

Employee Profile



In this issue we feature Bryan VanBeek in our Employee Profile. Find out more about Bryan and his passion for DariTech on **page 3**.

Also in this issue:

- Find out what's hot this season and the thing to buy.....pg 3
- Look for DariTech installations in your neck of the woods!.....pg 4
- Read up on DariTech's free stall system.....pg 5
- Check out our classified section to see what's for sale.....pg 7

Energy Saver

How to manage energy costs for greater profitability and productivity

Oregon Energy Trust

Energy costs- electric, natural gas, gasoline, diesel, propane - are a growing concern for small business owners, including farmers. Energy efficiency hasn't always been a top priority in the agricultural sector, but rising costs are changing that. Farmers are finding that saving energy can help them manage their energy costs. It can also reduce air pollution and improve productivity.

According to an American Council for an Energy-Efficient Economy study in 2005, the U.S. agricultural sector could save as much as \$1 billion, or about 10 percent, through energy efficiency. Top Categories for potential savings include machinery, transportation and motors.

Investing in more energy-efficient equipment may require a larger investment, but this cost is quickly repaid in energy savings. Most states have energy efficiency organizations that provide technical assistance and/or financial incentives to upgrade equipment or install renewable energy resources such as solar, wind or biomass.

Getting Started

The first step a farmer can take to effectively manage this cost is to identify and eliminate wasted energy use. Think through each process in detail, looking for opportunities to save.

1. Reduce waste. Locating energy wasters around the farm may require a little detective work. Like an underground pipe leak that may not be obvious. For example:

- Leaks in compressed air lines cause the compressor to run harder than it should. A 20hp air compressor with just 10% leakage in the lines can cost \$700 each year in wasted energy.
- Compressed air costs money to make - think twice before using expensive air for cleaning up work areas.
- Turning off lights in storage rooms and other areas not in constant use can save, too. Occupancy sensors can turn the lights off automatically when spaces are unoccupied.
- Taking a close look at the irrigation system can yield big energy savings. Irrigation leaks, excess run off, and over-watering add to electric and diesel bills because you're moving water that doesn't need to be moved.

2. Buy with efficiency in mind. Every time you purchase a motor, a fan, a pump, or a light fixture, you are locking in a stream of future energy costs. Look for energy efficient equipment alternatives when purchasing

new equipment and balance up-front cost considerations with operating costs over time. Examples include:

- Lighting - the typical 4-foot fluorescent fixtures deliver about 78 lumens of light output per watt of power input. Older metal halide fixtures produce about 25 percent less light but use the same amount of power.
- Motors - an electric motor consumes up to ten times it's initial cost in energy each year, depending on runtime and power rates. It pays to compare both efficiency and cost of alternatives.
- Ventilation fans - some fans deliver only 12 cubic feet per minute for each watt of input power, others deliver 20 cubic feet per minute, a reduction in energy use of up to 40 percent.
- Refrigeration - controls that allow condensing pressure to float down during the cooler weather, that is so common here in the Northwest, use a lot less energy than those that don't.
- Vacuum Pumps - controlling vacuum level with a variable speed drive typically reduces energy use by 60 percent compared to a regulator that works by "bypassing" suction to the atmosphere.



Energy Trust of Oregon - offers incentive funding based on calculated or deemed energy savings, up to 50 percent of the cost of an energy-efficiency upgrade. Typical projects include lighting retrofits, premium efficiency motors, and variable frequency drives on vacuum pumps and irrigation pumps. Cash incentives are also available for renewable energy resources, including solar, wind and biomass. If you have an energy-saving project in mind, visit www.energytrust.org/lpe or call 503-928-3154 to find out if you qualify. Energy Trust programs are available to Oregon customers of Pacific Power, Portland General Electric and NW Natural. Customers of other utilities should call their power provider to inquire about similar offerings.

Employee Profile: Bryan VanBeek

Bryan Van Beek has been a part of DariTech for three years and has been a lifelong member of the dairy industry. Born and raised in Enumclaw, Washington, Bryan's father is still milking a few cows on the home farm. For 15 years, Bryan farmed on his own in Skagit County.

Bryan and Dave have known each other since the beginning of DariTech. After retiring from farming, Bryan worked in construction for two years before hopping aboard the DariTech team.

Bryan and his wife, Deanna, have a daughter, Kendra – 9, and a son, Nathan – 6. They started their family in Burlington, Washington and now reside in Bow, Washington.

One of Bryan's greatest accomplishments was when he sold thirteen manure separators in 2007. Bryan is very

proud to be serving the farmers of Washington State. He says "They are truly my friends and relatives."

We are so grateful to have Bryan as part of the DariTech family. Thank you for all of your hard work!



What's Hot?



You may know that DariTech sells irrigation reels, but did you know that DariTech actually builds hose reels and travelers right here in Lynden? With your needs largely unfulfilled from existing manufacturers, Acurain reels were born out of necessity. The necessity to have a quality built piece of equipment. "We were never totally happy with the different brands we sold." Dave says, "so we developed our own." Our reels are the most versatile and cost effective reels on the market today, combining the features you want with the benefit of buying direct from the manufacturer. This gives you the best equipment at the greatest value. Add in DariTech's unsurpassed

service, and the choice is clear. Call Karl for more information on DariTech's Acurain reels, you won't be disappointed!



Installations

Progress in your neck of the woods

Edaleen Dairy - Lynden, WA

New dry cow and freshening facility featuring DariTech stalls and lock-ups, as well as mini BioLynk system to flush holding pen and new barn.



Big Stone Colony - Sand Coulee, MT

A complete hard hose manure injection system. This has helped complete their nutrient management program.



Rickreall Dairy - Rickreall, OR

Replacement of 4 F.A.N. Separators with twin DT360 and Houle roller press. This has reduced power usage from 22.5hp to 5hp, saving both time and money.



Livestock Line-up

Featuring DariTech's Free Stall System

DariTech's free stall systems are designed around cow comfort reducing maintenance and cow injury.



- Minimizing interference in the lunge space.

- Bolt together feature to reduce rusting and weld fatigue.
- Adaptable to new and existing barns in outside row and head to head rows.



- Flexible joint in concrete to eliminate breakage at concrete line.

DariTech Animal Handling Equipment:



- **Tip Tanks**
 - Stainless Steel
 - Cleaner water means more milk



- **Fans**
 - Cooling & ventilation.



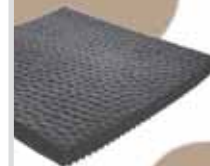
- **Stall Mattresses**
 - Reduce sawdust usage with Mayo Mats.



- **Cow-Brush**
 - Auto-reversing
 - Fractional 220v horsepower



- **Lock-Ups**
 - Heavy duty, hot-dipped galvanized



- **Rubber matting**
 - Cowlanes & holding pens.



- **Calf Hutches**
 - Durable
 - Easy to clean
 - Blocks UV rays

Bedding Faber Dairy

Congratulations are in order for Harry and Dwayne Faber on their new BeddingMaster, built right here in Lynden. By combining the age old science of composting with the knowledge and wherewithal of DariTech, the Fabers will be able to say goodbye to sawdust and shavings, and hello to re-

pump feeds a new EYS screw press separator. The separator is specially designed by DariTech to provide the ideal feedstock for the BeddingMaster, which is made up of manure solids at 35% dry matter.

The separated solids are fed into the BeddingMaster by passing through the fixed opening in the entry end. DariTech's stationary ends, that do not rotate with the drum, increase Faber Dairy's throughput by over 50%. This results in more bedding for less money, an idea we can all get behind.

The beauty of composting manure solids is that the aerobic bacteria which consume the organic matter already in the solids, courtesy of Faber's cows. Once inside the BeddingMaster, the bugs proliferate as they finish the job begun in the cows' stomachs.



Manure before BeddingMaster



Manure after Beddingmaster

A blower pulls air through the drum, ensuring an ample air supply, which mixes with the solids that are tumbling from the rotation of the drum. Within just a few hours, the activity of the bacteria has brought the temperature to over 150°F, where it stays for the next three days as the material moves through the drum like a plug.

The Fabers are now bedding the whole dairy with their own manure solids, relieved of the ongoing costs of importing bedding. DariTech's new BeddingMaster has helped improve the bottom line on Faber Dairy, and we're pleased and proud to be a part of it. Thanks for your confidence in us Harry and Dwayne! 🐮

cycled manure as bedding for their cows. Not only that, but they will be able to do so at a cost far lower than has been previously available in systems utilizing similar science. Here's how it works:

The Fabers scrape their manure into a tunnel, which flows into a new reception pit. A Houle agitator ensures a steady, homogenous mixture, and a Houle



Barnyard Humor

Q. What do you call a cow with no front legs?

A. Lean Beef

Q. What do you call a cow with no legs at all?

A. Ground Beef

Q. What goes "ooo, oooo, oooo?"

A. A cow with no lips

Q. Why do cows wear bells?

A. Because their horns don't work

Q. What are the spots on black and white cows?

A. Holstains



Cow Poop Dave © 2008 DanTech Inc.

Karl: Dave, Why do you always have to touch it? It's no different than last time.

Q. Do you know why the cow jumped over the moon?

A. The Farmer had cold hands

Q. What do you call a cow that just had a calf?

A. Decalfenated

Q. Where do Russians get their milk?

A. From Mos-cows

Q: Which job is a cow most suited for?

A. Baker. Because they're making cow pies regularly.

Used Equipment

SEPARATORS

- 6 FAN PSS2 780 Screw Press Separator.
- 3 FAN PSS 520 Screw Press Separator.
- 3 US FARMS Side Hill Separators.
- 2 AG PRO Side Hill Separators.
- 1 BAUER Screw Press Separator.

PUMPS

- VAUGH 8FT Electric Pump.
- PTO DODA 3-PT Super 150 Transfer Pump.
- 5HP TSURUMI Submersible Pump.
- 30HP HALCO Electric Pump.

TANKERS

- HOULE Manure Tanker with Steering, 9,500 Gallon.

INJECTORS

- 14' NO-TILL Injector.
- 2 ELECTRIC Pit Agitators.



Quality Manure Handling

See bottom of back cover for our full line card.



Acurain
irrigation reels

Diesel manure and
irrigation pumps



Tankers

Injection
Systems



SLURRYSTORE



Slurrystore
tanks

DariLife

Cows • Land • Passion

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Product Line Card

MANURE MANAGEMENT

Separators
Biolyнк System Mgmt.
Biolyнк for Digesters
Scraper Rope
In-Vessel Composter
Houle
Hard Hose drag

Soft Hose drag
Application Equip.
Diesel Drive pumps
Electric Drive W/VFD
Agitators
Flush Valves & Controls
Conveyors
Doda
NUHN Tankers

IRRIGATION

Acurain Travelers
Small Travelers
PVC Piping
Irrigation Risers
Electric Water Pumps
Specialty Fittings
Diesel Water Pumps
P.T.O Water Pumps

LIVESTOCK HANDLING

E.Y.S. Cow Brush
Tip Tanks
Lock-Ups
Loop Stalls
Calf Hutches
Rubber Matting
Stall Mattresses
Plastic Paneling