



Poised to deliver outsized returns

CSE:ERTH | OTC:VVVD | F:WIMN



Waste into wonder - EarthRenew's ingenious solution to the global manure crisis

Turning waste into wonder.

That's the pitch of visionary agritech firm, **EarthRenew Inc.** ([CSE:ERTH](#) | [OTC:VVVD](#) | [F:WIMN](#))

Historically, the predecessor company had invested \$70 million in the development of its innovative technology that addresses one of the greatest ecological challenges facing modern farm; livestock waste disposal.

You probably don't think about livestock waste that often.

Why would you?

It isn't exactly pleasant.

But animal waste is much more than something to avoid stepping in while out walking in the countryside.

It has become an enormous environmental threat.

You see, manure pollutes the air with harmful gases if it isn't disposed of properly. These can lead to chronic asthma, respiratory irritation, and immune suppression in humans. **The chemicals can even be lethal.**

Animal waste also releases large quantities of methane when left to decay. This greenhouse gas [traps 80 times more heat](#) in the atmosphere than carbon dioxide and contributes to global warming for *up to 20 years*.

Meanwhile, phosphorus in manure and synthetic fertilizers can leech into the water table and release a sea of chemicals that help spread waterborne pathogens and support the development of harmful algal blooms. This can wipe out marine wildlife populations through eutrophication and seriously contaminate water supplies.

Toxic algal bloom polluting the sea



Source: [NASA](#)

These problems are exacerbated by population growth. Demand for protein and livestock is at an all-time high, which creates unprecedented amounts of animal waste to dispose of.

EarthRenew's powerful pitch to partner farmers

According to the UN, annual animal waste mass globally will have risen by 40% between 2003 and 2030. Within ten years, the planet will be generating at least 5 billion tonnes of animal waste each year, with the vast majority being deposited by livestock.

In light of this, governments are taking an extremely hard line on livestock waste management.

Farmers are having to spend thousands and thousands of dollars every year on safely storing and disposing of waste they cannot immediately put to use. Some even have to kill off up to 40% of their herds to cut the manure they produce and meet standards set.

But changing tides give rise to excellent business opportunities. And this is exactly where **EarthRenew** ([CSE:ERTH](#) | [OTC:VVVD](#) | [F:WIMN](#)) is positioned.

This firm has developed state-of-the-art technology that not only allows it to take excess waste away from farmers for free, but also convert it from a liability into **a lucrative revenue stream.**

Currently, North American farmers are forced to spend about \$40 per ton to dispose of livestock waste.

Thanks to **EarthRenew's** patented thermal processing technology, this unwanted manure can be converted into valuable organic fertilizer pellets. These can be sold to the wider market and any excess electricity generated from the production process is sold back to the grid, increasing overall profitability.

All-in, **EarthRenew** can generate as much as \$200 revenue per ton of fertilizer!

This company really is about turning waste into wonder!

With Environmental, Social and Governance (ESG) investing continuously outperforming other more traditional investment styles, institutional money is rapidly pouring into the sector.

On the cusp of a full-scale commercial roll out across the multi-billion-dollar North American livestock market, EarthRenew is poised to deliver outsize returns in the coming years.



Innovative technology perfected over time

EarthRenew ([CSE:ERTH](#) | [OTC:VVVD](#) | [F:WIMN](#)) has created a business model that transforms livestock waste into a powerful, all-natural organic fertilizer that promotes plant growth and restores soil health:

- I. The company begins by leasing land from a host farm where it can set up its waste management facility.
- II. EarthRenew takes this farm's raw livestock waste to a pre-conditioning building where it is treated to remove objects like rock and unwanted organics.
- III. Heat from a natural gas-powered turbine dries and treats this waste further, before environmentally-friendly nutrients are added to create a proprietary organic fertilizer blend.
- IV. This organic fertilizer is then pelleted and bagged for sale while electricity produced earlier in the process can also be sold back to the grid.

That's it!

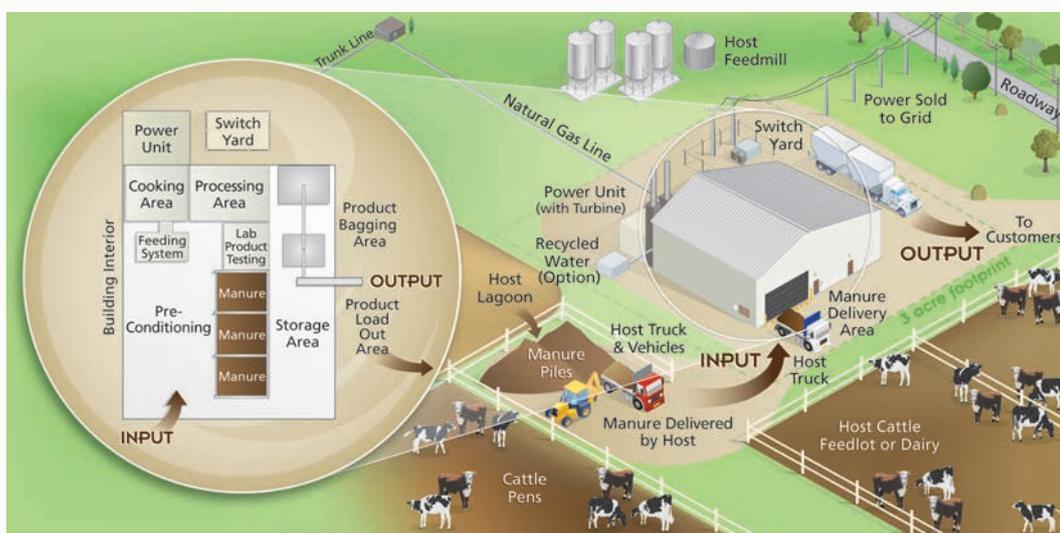
Having invested significantly in its patented technology, the final result is as simple as it is ingenious.

EarthRenew makes its money from organic fertilizer and electricity sales. For investors, the real genius is that demand for both of these revenue streams is as strong as it is practically unlimited.

There are very few barriers to EarthRenew's scalability.

With the company close to closing funding to scale up operations, **EarthRenew** is now ready to accelerate its ambitious growth plan over the second half of 2020.

EarthRenew's waste-to-wonder process in action



An irresistible offering for under-pressure farmers

For farmers, the simplest traditional method for waste management was to use their animal waste as fertilizer on their crops.

However, in 2020, this is no longer enough.

Only so much manure can be used as fertilizer on soil at any one time. Applying too much increases salt levels and gives rise to "root burn" - a condition [that seriously hurts crop yields](#) and eventually leads to plant death.

If waste production never exceeded fertilizer demand, then there wouldn't be a problem. But the reality is **livestock produces far more waste than can be directly used as fertilizer.**

This presents a huge obstacle for cattle and dairy farmers, who wish to expand their herds.

Soaring protein demand has seen average herd sizes in North America grow from 78 cattle to more than 230 [between 1994 and 2018](#). Some dairy farmers in the East have well over 1,000-head.

And that's just milk-producing cows - there are three times as many steers reared for beef than dairy cows in North America.

Farmers are left with unmanageable quantities of excess waste for which they have no immediate use. In many cases, the sheer expense of taking on more cattle, and in turn disposing of more waste, means they cannot afford to expand their businesses.

So when they hear that **EarthRenew** ([CSE:ERTH](#) | [OTC:VVVD](#) | [F:WIMN](#)) can turn this dirty pollutant and severe operating capital drain into a highly profitable resource, they probably think it sounds too good to be true.

But this is no mirage.

Consider [that a cow produces](#) on average between 82-106lbs of manure every single day, and this profit potential really begins to soar on a herd-wide basis.

EarthRenew's chief executive Keith Driver says that thanks to his company's patented technology, *"a single cow could add an extra \$4,500 of positive cash flow to a farm's bottom line each year."*

It is quite conceivable that each cow could generate in the region of \$3,500 revenue for EarthRenew each year, while saving partner farmers up to \$750 in annual waste disposal costs and generating additional income from surplus energy sold back to the grid.

By addressing the environmental challenge of excess livestock waste and converting it into a profit centre, **EarthRenew** enables its partner farmers to grow their businesses much more effectively.



Capturing intense demand in the organic fertilizer market

Supply of animal manure on the input side of **EarthRenew's** ([CSE:ERTH](#) | [OTC:VVVD](#) | [F:WIMN](#)) waste-to-wonder solution will not be a problem.

Excitingly, the same can also be said for demand of the process's outputs.

The first, and perhaps most significant, product are the **organic fertilizer pellets**.

These have become a huge market opportunity.

For many decades, modern farming has relied largely on synthetic fertilizers - they have been both cheap and widely available.

But the latest research has shown increasingly that the inorganic compounds in these products create an enormous environmental drain.

Producing synthetic fertilizers [requires vast amounts of energy and leaves a large carbon footprint](#). Beyond this, the high salt content in synthetic fertilizers can result in reduced crop nutrients, chemical burn to crops, and increased toxicity and acidification of soil if overused.

Growing awareness of these threats has resulted in a mass move towards foods made using organic practices.

U.S. sales in the organic food market alone broke through the \$50 billion mark for the first-time in 2018.

As you'd expect, there has been a parallel jump in demand for organic fertilizers that can help to produce the organic crops that make this food.

In America, demand for organic fertilizers is growing at 12.1% annually - the market is expected to reach US\$11.2 billion by 2022.

Organic fertilizers are more efficient, generating more per acre than conventional fertilizers.

In extensive field studies, **EarthRenew's** fertilizer pellets have been shown to generate 120-145% of the crop yield achieved using an equivalent synthetic fertilizer.

However, supply has not been able to keep up with demand to date.

North American organic fertilizer supply has consistently fallen short of the market's need. The U.S. has even had to resort [to importing billions of dollars' worth of organic food every year](#) to account for the shortfall.

This is because organic fertilizer is rarely of a good enough quality to warrant the cost of transporting it over long distances. When it is, the cost of applying it using laborious, traditional farming methods often removes the remaining economic benefit.



Air seeded fertilizing significantly boosts crop yields

EarthRenew's organic fertilizers have two crucial advantages.

First, the company's manufacturing process allows it to add nutrients and account for the individual soil make-up of areas where end-customers reside, optimizing outperformance.

Second, Driver tells us its lightweight pellets are far more efficient to apply than bulk fertilizer:

“Our pellets can be ‘air seeded’ - the fertilizer and the seeds are added at the same time. This means that it can be applied in one go in exactly the areas where it will be useful rather than across the entire field with traditional equipment, requiring several passes.”

Not only does this reduce fuel costs on the farm, but it also means much smaller quantities of fertilizer are needed - cutting transportation costs greatly.

There is a growing need for organic fertilizer across **EarthRenew's** target markets. To meet this global demand, new sources of supply will be needed.

EarthRenew is perfectly positioned to take full advantage of this opportunity. Its patented technology gives the firm a clear competitive edge in the quality of product it ultimately produces.

This is expected to have a significant impact on future sales, as crop growers experience increased annual yields. **EarthRenew** believes this will lead to a high proportion of repeat business.

The organic pellets created by EarthRenew's waste-to-wonder process



Excess electricity generation - the bonus revenue stream!

The second output from **EarthRenew's** ([CSE:ERTH](#) | [OTC:VVVD](#) | [F:WIMN](#)) waste-to-wonder process is electricity generation.

To dry out the livestock waste, the firm has taken the sustainable approach of using heat generated from an active turbine powered by natural gas at its host farms.

A gas turbine is co located at the **EarthRenew** site. It enhances the drying process because the waste heat is used during thermal processing of the manure and the excess power can be converted into an output.

Excess power generated from the organic fertilizer production process is sold to host farms at cost. This provides another cost saving for the partner farmers.

Any electricity that cannot be used on site can be sold to third parties ([EarthRenew has already struck deals with cryptocurrency miners](#)), or even back to the grid.

For an idea of just how profitable this can be, consider that **EarthRenew generated \$117,000 in revenue from the sale of electricity generated in January 2020** at its flagship Strathmore facility (more on this later).

Driver says revenues from this one source alone take **EarthRenew's** model to breakeven.

When combined with the sales from organic fertilizer pellets and the cost savings from waste management, **EarthRenew** can transform the profitability of its partner farms.

The Strathmore Facility



A ready-made ESG success story

What underlines **EarthRenew's** ([CSE:ERTH](#) | [OTC:WVVD](#) | [F:WIMN](#)) potential as a breakaway success story is its appeal to institutional investors.

EarthRenew's environmental credentials in livestock waste management and its sustainable energy generation place it firmly in the sights of the ESG investment market.

ESG investments are guided by Environmental, Social, and Governance factors. But this is far from just avoiding investments into so-called "*sin stocks*" dealing in the likes of gambling, alcohol, and weaponry. It is the belief that "*responsible*" companies, driven by strong stewardship, avoid unnecessary risk and ultimately deliver vastly superior investment returns.

ESG investing is being taken **very seriously** by all of the world's biggest investment institutions.

Global investment manager Schrodgers [has committed to](#) integrating ESG into all its

funds by the end of 2020. Within a decade, the world's largest fund manager BlackRock will increase the cash it holds in ESG from \$90bn to \$1 trillion.

And this year's coronavirus crisis has only accelerated the trend. [According to Morningstar](#), global sustainable investment funds enjoyed a record \$45.6 billion of inflows while the wider markets were being torn apart.

Fund managers are now climbing over each other to find companies like **EarthRenew**, which combine strong long-term growth with positive contributions to society.

EarthRenew is now on a mission to showcase the scale of the opportunity it presents.

And what better way to do that than the full-scale commercial roll-out of its waste-to-wonder technology across North America?

The host farm at Strathmore



International partnerships paving the way to profitability for EarthRenew

Spring 2021.

This is when **EarthRenew** ([CSE:ERTH](#) | [OTC:VVVD](#) | [F:WIMN](#)) plans to reach full-scale commerciality in the United States and Canada.

With the various moving parts of its model in place and [the anticipated \\$5 million placing](#), the company is well on course to meet this deadline.

EarthRenew already boasts a flagship, fully-permitted, and commercial-scale facility. Strathmore is based on the 25,000-head Cattleland Feedyard feedlot near Calgary in Alberta, Canada.

Strathmore is vital to **EarthRenew's** long-term success because this facility has enabled the company to perfect its production processes.

In May, it altered the site's on-site power generation unit to be capable of producing electricity 24/7. Now, [it is upgrading the facility's](#) maximum production capacity to 10 tons per hour of finished pelleted fertilizer products.

Next, will come the design of new organic fertilizer formulations.

EarthRenew [has already unveiled](#) five new strands for use in field trials and market development activities and [has partnered](#) with leading UK cleantech player CCm Technologies.

This latter development is *particularly* exciting.

The partners are working to increase the nitrogen content in **EarthRenew's** fertilizers. This chemical is one of the most vital nutrients that crops need to grow - boosting vigour, size, colour, and yield.

The fact that **EarthRenew** and CCm [have already been selected](#) by the UK and Canadian governments to submit a project proposal for a gigantic agricultural R&D program emphasizes how advanced this technology is.

The organics plant at Strathmore



Global expansion through partnerships

EarthRenew has also [partnered with two of Alberta's most established research institutions](#) to begin field and greenhouse trials that apply its fertilizers to the cultivation of barley and peas. Results are expected imminently and will determine the exact organic fertilizer products the company brings to market.

Finally, [and perhaps most excitingly](#), June saw **EarthRenew** identify its first potential US host site.

It is reviewing one of the largest feedlots in southwestern U.S. - with over 200,000 head of cattle per year - for facilities, regulatory standards, and domestic fertilizer demand.

The two-month study will inform key initial terms of a commercial agreement between the pair.

But the fact that **EarthRenew** is even in talks with a farm of this size speaks volumes. The stars are now aligning for EarthRenew and its shareholders.

Expect to see great progress in the coming months, as **EarthRenew** rolls its **waste-to-wonder** service out into the multi-billion-dollar North American livestock market and beyond.

EarthRenew's greenhouse trials in actions



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