

General Presentation, November 2011



Forward Looking Statements

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Introduction: Some History

- Product & process development started in 2000
- Strathmore plant commissioned in June 2008
- At that time, business based on processing cow manure into an Organic soil amendment
- Products sold were only soil amendment and electricity
- **Forbes & Manhattan assumed the management in Spring 2011.**





Company Overview

- Power generator using proven IP that is fueled by municipal biosolids and other food and green wastes
- **Proven technology, with first plant built and operational** in Strathmore, Alberta
 - Capacity to process >100,000 wet tonnes of biosolids per year
 - Converting to run on municipal biosolid, industrial, commercial, and institutional (ICI) wastes, and other organic wastes
 - Up-grading to produce methane from digesters to fuel generators
- **Core patented technology** is the use of a turbine to generate power, with the off-gases used to dry the biosolid, and produce steam for further power generation
- Business model generates revenues from:
 - Tipping fees
 - Sales of the processed biosolid as a soil amendment / fertilizer.
 - Sales of power
 - Carbon credits and other available regional incentives
- Strong new management structure is changing the business model, developing annuity equivalent revenues



Management Team & Advisory

Management Team

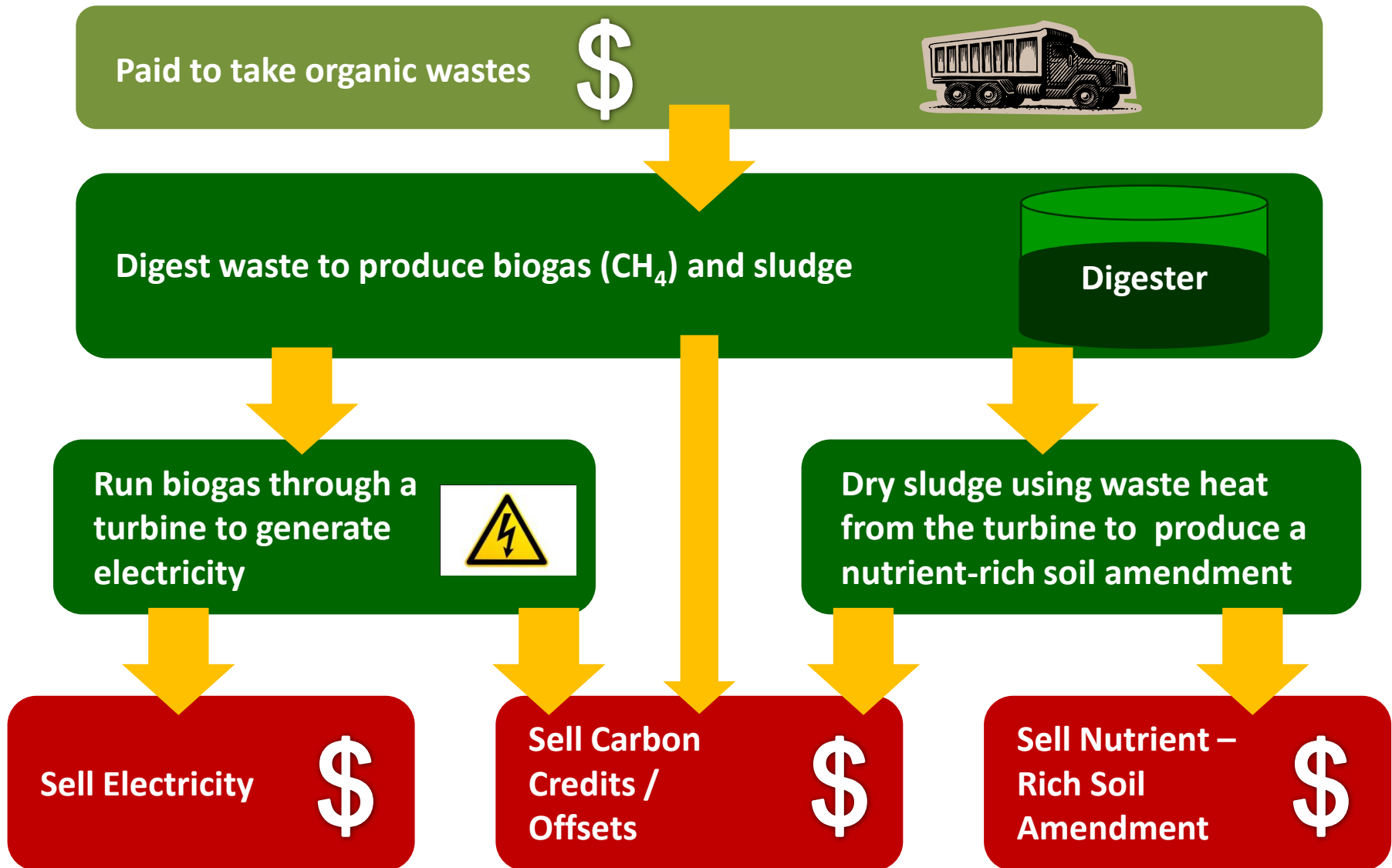
- Catherine Stretch – Chairman
- Douglas Meadow – CEO
- Ravan Baring – CFO
- Marilia Bento – V.P. Institutional Finance
- Allan Pickett – V.P. Commercial

Advisory Team

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Simplified Business Model





Process Highlights

Features of EarthRenew's new process at the Stathmore plant are:

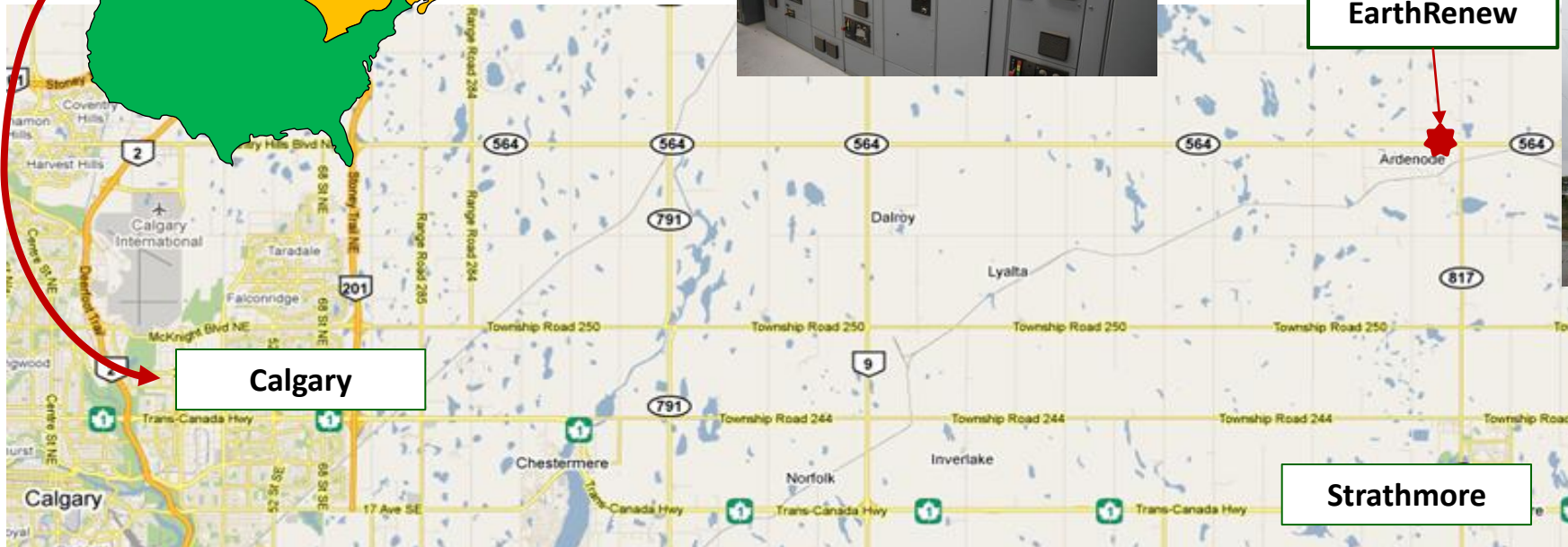
- **Waste will be processed through a digester**
 - Creates methane (CH_4), which fuels the co-generator
 - Produces a nutrient-rich sludge, which is dried and sold as a nutrient-rich soil amendment
- **Co-generator produces electricity and heat**
 - Electricity is sold
 - Heat is used to dry the sludge
- **Construction & Demolition Waste (gypsum) is composted with organic wastes, and then blended with digestate before drying**
 - Optimises water efficiency and plant throughput
- **Residual heat from the turbine heats the digester – very efficient**
- **Process is highly energy efficient: up to 50% of gas required is produced by the digester**
- **Carbon credits available for:**
 - Biogas generation
 - Efficiency in turbine
 - Dryer
 - Landfill diversion
 - Replacement of coal for Electricity production





Proof of Concept Plant – Strathmore, Alberta, Canada

- Plant located at Cattlelands Feedyard, 10km north of Strathmore
- 3.5MW power generation, >100,000 wet tonne capacity
- Initial commissioning 2009
- Re-engineering to include digester 2011-12





Business Model Benefits

Municipality Benefits

- **Economic benefits to the community**
 - Employment, business taxes / rates, operating cost savings etc., purchase of green electricity
- **Extends life of existing landfill**
 - Less pressure to secure new landfill sites
 - Reduces organic waste at landfills – less methane emissions
- **Long term waste processing contract**
 - Security of organic waste handling process
- **Significant savings in waste disposal**
 - Lower base cost than landfill (tipping fee)
 - Potential to co-invest in plant
- **Significant environmental benefits**
 - Recycle rather than waste
 - Eliminates pathogens from biosolid
 - Reuses nutrient benefits of organic waste
 - Assists in water conservation
 - A tool in reducing pharmaceutical & chemical residues

Community Benefits

- **Contributes to community economy**
 - Direct and indirect employment
 - Taxes / rates
 - Operating cost savings
- **Restores food and water safety**
 - Eliminates pathogens from waste
 - A tool in reducing pharmaceutical & chemical waste
- **Creates employment**
 - Plant will require >25 direct employees
 - Indirect jobs in haulage etc.
- **Replaces land application program**
 - Organic waste is transported at 20% solids – fewer truck trips
 - Nutrient-rich soil amendment is dry – fewer truck trips, less nutrient run-off, can be used annually etc.

Environmental Benefits

- **Reduction in volumes of waste going to landfill**
 - Landfill sites will last longer; greater diversion rates
 - Less organic waste at landfill = less methane
- **Reduction of carbon emissions per year**
 - > 3 MW (dependent on scale of plant) of power produced using ~50% biogas
- **Eliminates land-spreading / land-filling biosolid**
 - Reduces nutrient run-off into water table
 - Captures and uses methane
 - Eliminates pathogens
 - Soil amendment can be used each year
 - *Regains control of biosolid management*
- **Improvement in water quality**
 - Reduction in N and P run-off into aquifers
 - Reduction in pharmaceutical and chemical residues deposited in aquifers
- **Provides nutrient rich soil amendment**
 - Can reduce the volumes of synthetic fertilizers needed by farmers
 - Excellent product for land reclamation



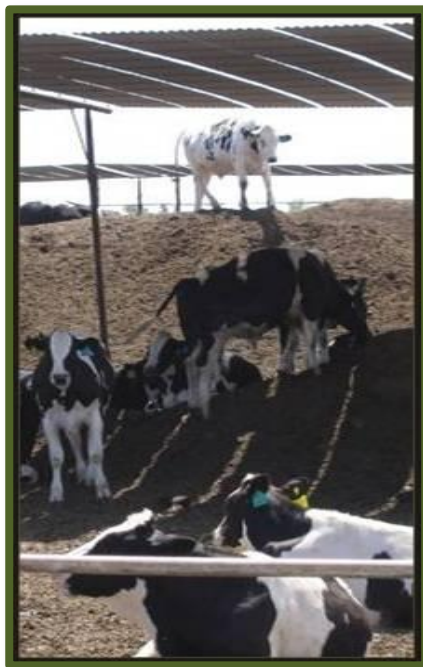
Markets for EarthRenew's Technology

US Annual Production



MUNICIPAL BIOSOLIDS

110 million
wet tons
47% landspread



ANIMAL MANURE

1,500 million wet
tons manure



ICI, FOOD, & ORGANIC WASTES

348 million wet tons
> 1 million acres of urban parkland
> 18 million acres of urban lawns





Markets for EarthRenew's Product

Key Sales Markets for EarthRenew's Biosolid Product Include:



Agriculture

Bulk sales as a soil amendment with additional nutrient value if based on biosolid



LAND REPAIR

Bulk sales to well sites, Superfund sites, spills, pipelines, roadways, etc.



RETAIL

Sales by bag to local and national retailers for consumer use in gardens



TURF & PARKS

Bulk sales to municipal parks, and bulk and bag sales to golf courses



Provisional Timelines

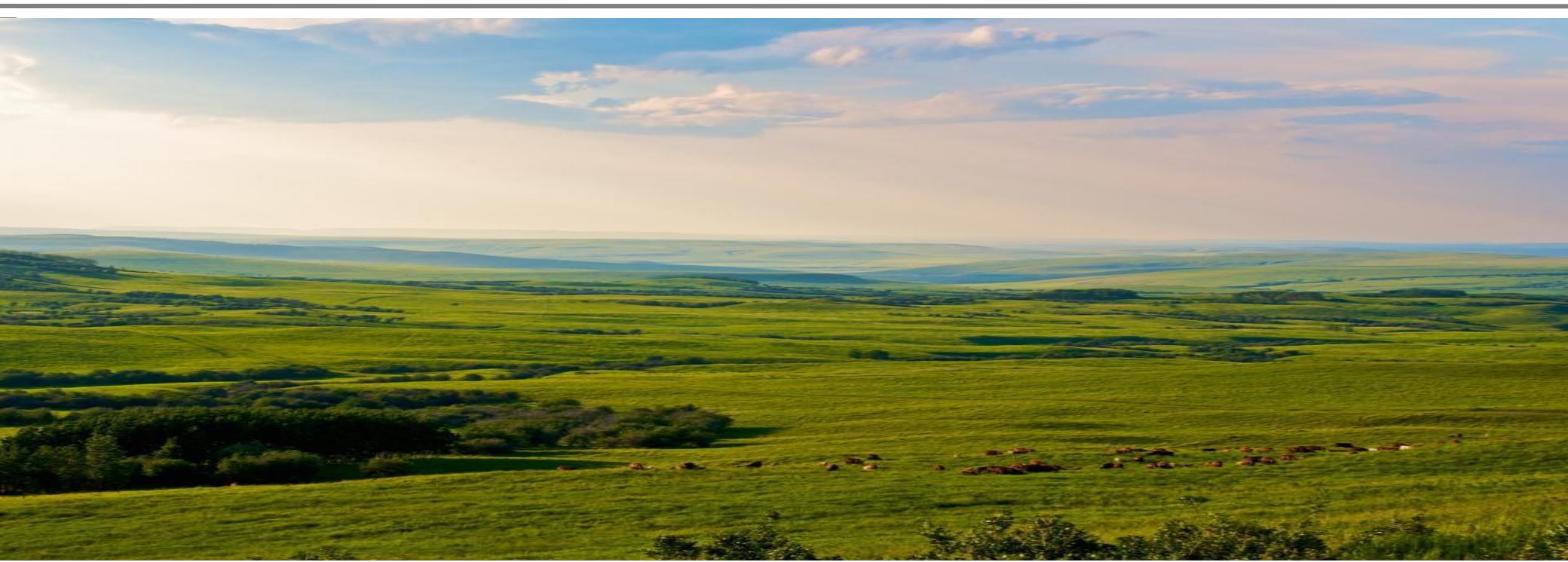
	2011 Q4	2012 Q1	Q2	Q3	Q4	2013 Q1	Q2	Q3	Q4	
Restart Strathmore										
Remedial engineering	→									
Re-Start Co-gen Unit			▲							
Full Re-start Strathmore					▲					
Digester Project	→				▲					
Plant 2										
Site selection & Public Consultation	→									
Capital Raise		→								
Engineering Design			→							
Build Plant						→				▲



Summary

- Supplier of technology and solutions for the treatment of municipal biosolid , other food & green waste
- Municipalities will joint venture with ER – provides long term stability for revenues
- Turns waste stream into revenue stream
- Business highly cash generative
- Strong patent protection in core markets
- Great scalability for future projects
- **Significant up-side potential**

The major technological solution for future waste management



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