The Florida Senate

COMMITTEE MEETING EXPANDED AGENDA

APPROPRIATIONS SUBCOMMITTEE ON AGRICULTURE, ENVIRONMENT AND GENERAL GOVERNMENT
Senator Mayfield, Chair
Senator Powell, Vice Chair

MEETING DATE: Wednesday, November 13, 2019
TIME: 1:00—2:15 p.m.
PLACE: *Toni Jennings Committee Room,* 110 Senate Building

MEMBERS: Senator Mayfield, Chair; Senator Powell, Vice Chair; Senators Albritton, Bean, Berman, Broxson, Hooper, Hutson, Rodriguez, and Stewart

TAB	BILL NO. and INTRODUCER	BILL DESCRIPTION and SENATE COMMITTEE ACTIONS	COMMITTEE ACTION
1	Presentation on Biosolids by Sedron Technologies		Presented
2	Presentation on Biosolids by Anuvia Plant Nutrients, LLC		Presented
	Other Related Meeting Documents		

VARCOR™
TECHNOLOGY OVERVIEW

Peter Janicki, CEO | November 2019

SEDRON TECHNOLOGIES

Peter Janicki
CEO & Founder

JANICKI INDUSTRIES

- ✓ Founded 1993
- ✓ Aerospace Parts
- ✓ Advanced Composites
- ✓ Complex Tooling
- ✓ 5-Axis CNC Machining

ORION CREW MODULE

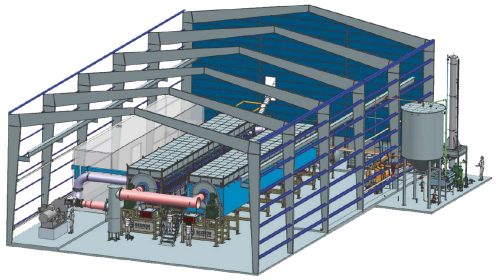
JOINT STRIKE FIGHTER

SEDRON TECHNOLOGIES

Formerly **JANICKI BIOENERGY**

- ✓ Founded 2014
- ✓ Water & Sanitation

JANICKI OMNI PROCESSOR



VARCOR PROCESSOR

Janicki Industries was hired by the Gates Foundation in 2012 to begin working on transformative technology for sanitation in developing countries

DAKAR PILOT UNIT
J-OP S100

2013
Pilot was manufactured & assembled

2014
Plant underwent testing in WA

2015
Commissioned in Dakar, Senegal

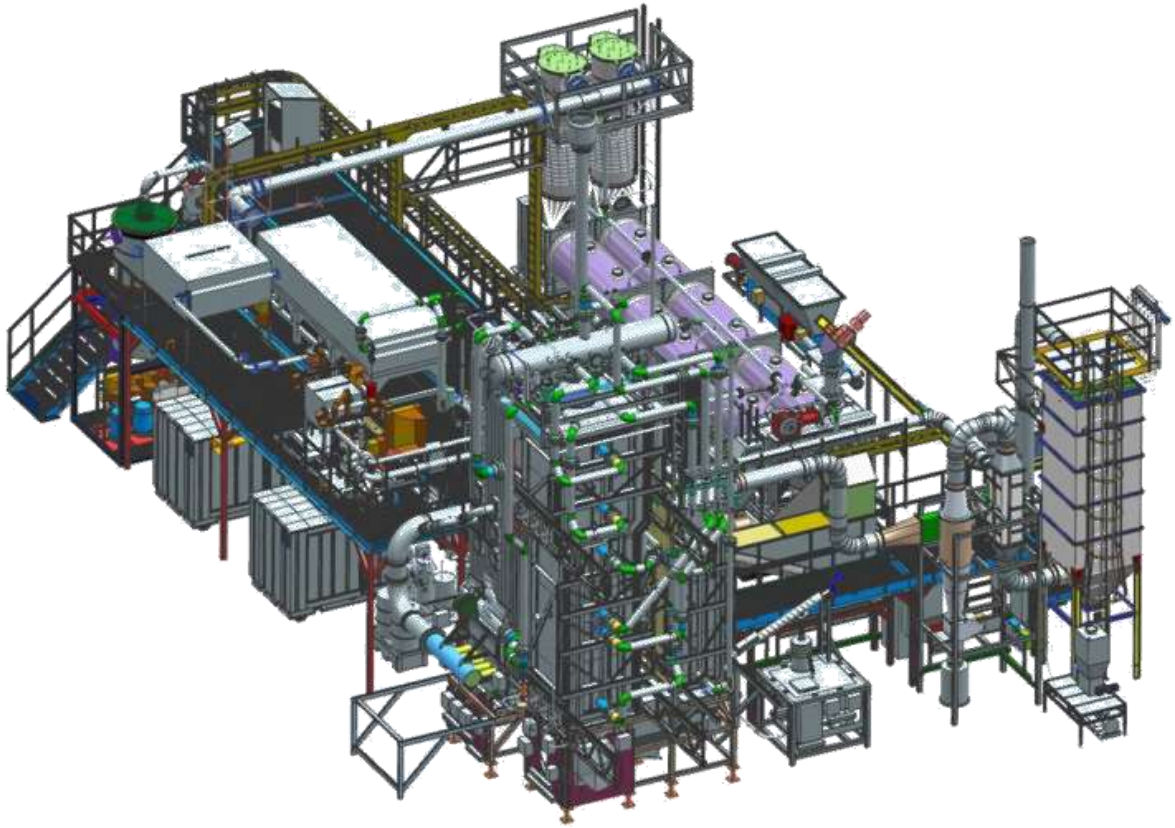
2016
Dakar team managing without onsite assistance.

2018
Plant reached milestone of 1M kg of sludge processed and 1500 hours of operation.

SEDRON TECHNOLOGIES

JANICKI OMNI PROCESSOR

S250 Model

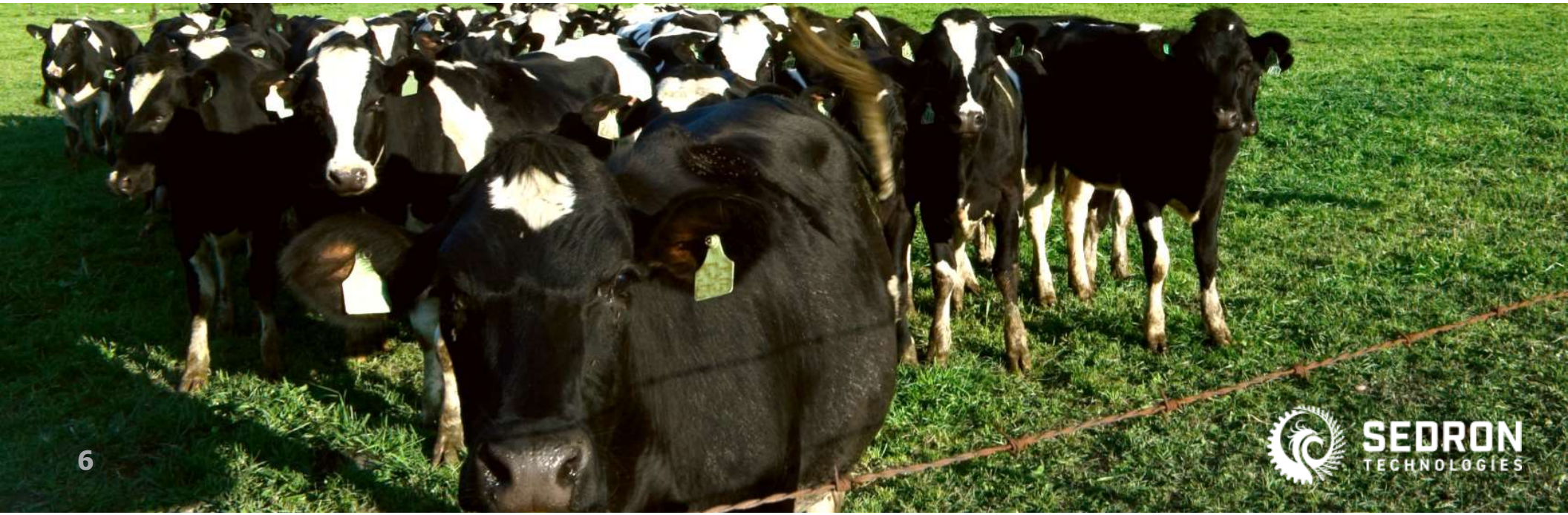


This unit will process waste from 250,000 people in West Africa while simultaneously making a profit.

SEDRON TECHNOLOGIES

THE DAIRY PROBLEM:

Dairies generate large amounts of manure and must make costly investments in traditional handling methods to ensure responsible stewardship. Even with these costly investments, dairies are criticized as a leading contributor to surface and ground water contamination.

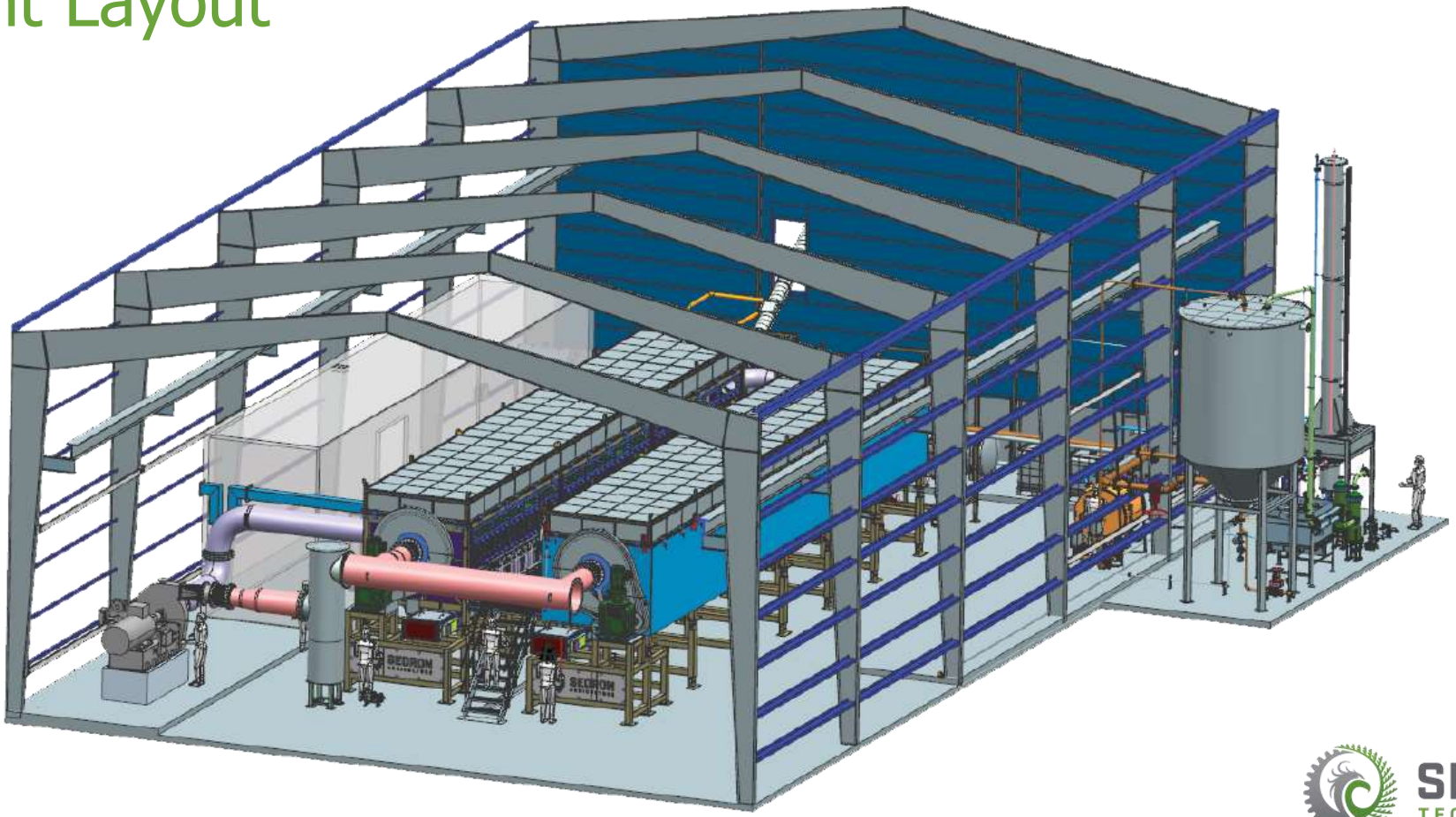


STORAGE LAGOONS

SEDRON TECHNOLOGIES

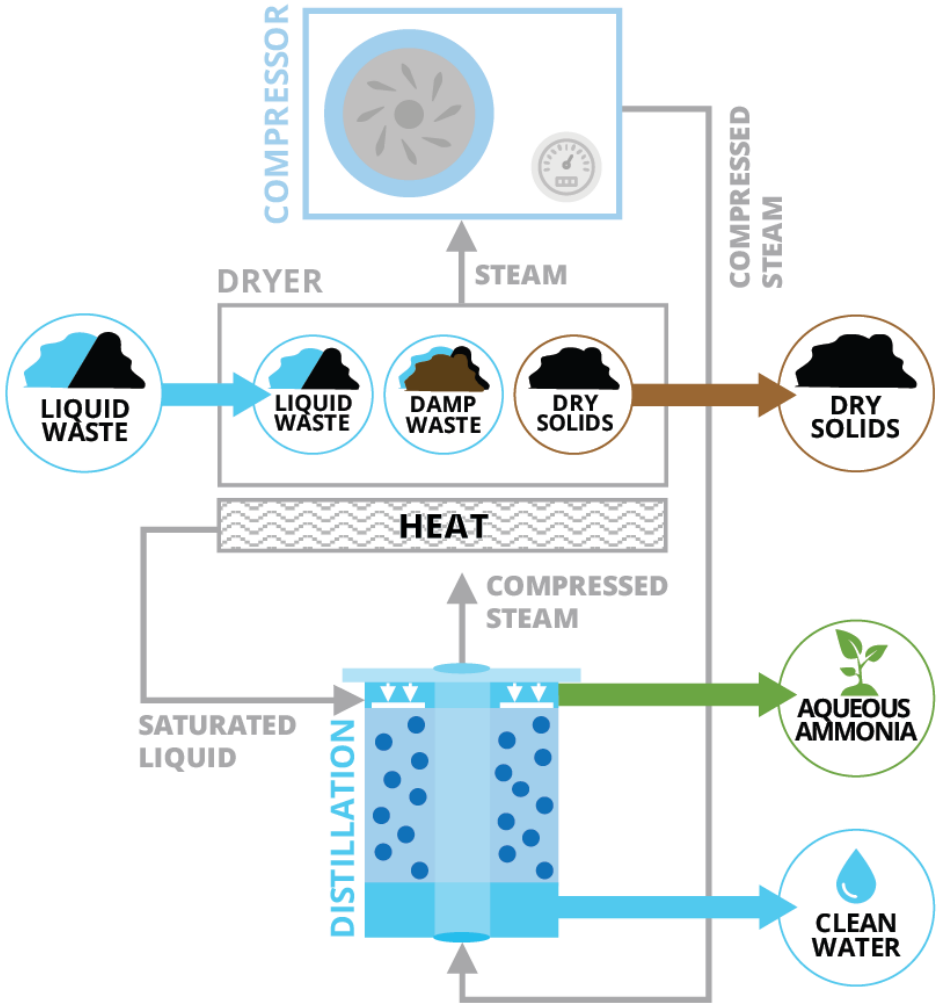
VARCOR™ PROCESSOR

Plant Layout



SEDRON TECHNOLOGIES

VARCOR™
Process Flow

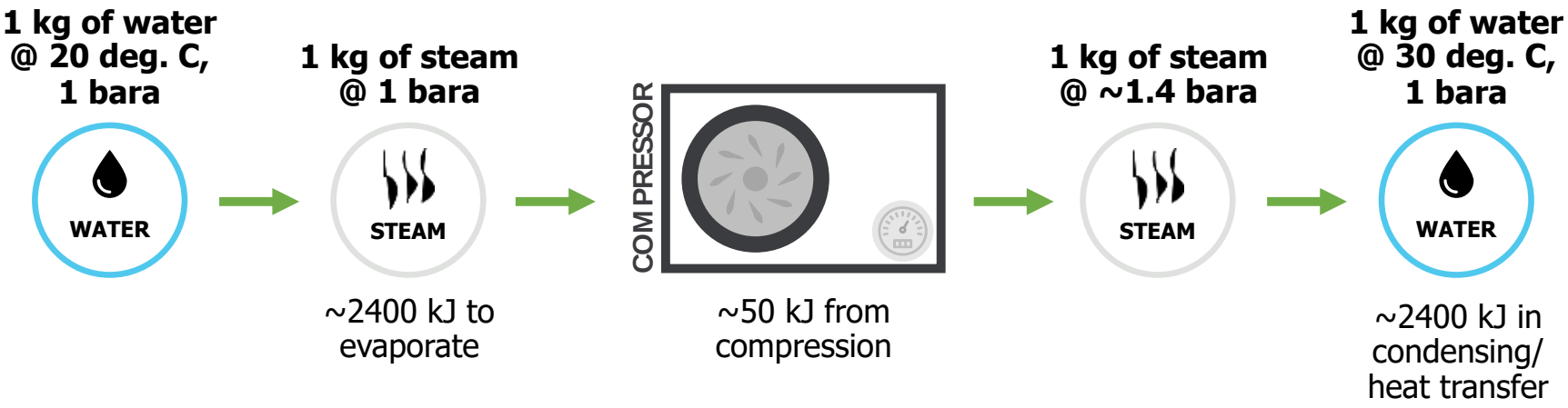


SEDRON TECHNOLOGIES

VARCOR™ EFFICIENCY

Process evaporates water extremely efficiently & effectively

(simplified thermodynamic analysis)



2400 + 50 − 2400 = 50

SEDRON TECHNOLOGIES

VARCOR™ PROCESSOR

Outputs for Dairy:

CLEAN WATER

This pathogen-free water can be recycled for on-farm purposes such as animal drinking water, flush water, or irrigation.

> Since the water is recycled back to the cows, the farm becomes a zero discharge facility.

SEDRON TECHNOLOGIES

VARCOR™ PROCESSOR

Outputs for Dairy:

15-20% AQUEOUS AMMONIA

Concentrated, pathogen-free nitrogen-rich fertilizer for use on-site or as an exportable, transportable product.

2

SEDRON TECHNOLOGIES

VARCOR™ PROCESSOR

Outputs for Dairy:

DRY SOLIDS

Rich in nitrogen and phosphorus, this valuable, organic material can be sold or used as bedding, a nutrient-rich soil amendment, or a fuel source for energy production.

3

SEDRON TECHNOLOGIES

Varcor on Texas Farm

Evaporator in final laser inspection

SEDRON TECHNOLOGIES

Disk Assembly in Fabrication

SEDRON TECHNOLOGIES

Preheater Assembly in Fabrication

SEDRON TECHNOLOGIES

Ammonia Recovery Assembly in Fab

SEDRON TECHNOLOGIES

Evaporator Spindles in Fabrication

SEDRON TECHNOLOGIES

Condensate Assembly in Fabrication

SEDRON TECHNOLOGIES

Can VARCOR™ be used to process biosolid at public WWTPs?

Yes, and it's easier, both technically and economically.

Seattle, WA

One of Seattle's Wastewater Treatment Plants

SEDRON TECHNOLOGIES


SEDRON
TECHNOLOGIES

Take solids directly off of the clarifier and eliminate the dewatering equipment.

SEDRON TECHNOLOGIES

BIOSOLIDS AT LOCAL WWTP

SEDRON TECHNOLOGIES

BIOSOLIDS LAND APPLICATION

1. Phosphorus and Nitrogen go together whether we like it or not
2. Cannot be stored so we have to apply it now.
3. Diluted with water so we have to use it locally

SEDRON TECHNOLOGIES

BIOSOLIDS LAND APPLICATION

SEDRON TECHNOLOGIES

Fertilizers that cause algae blooms

Nitrogen:

Nitrogen is normally a gas and makes up 78% of the air we breath in the form of N2. Plants require nitrogen in almost any form other than N2 such as ammonia which is NH3. Waste water treatment plants are very effective at converting almost all forms of nitrogen into N2 that is released into the atmosphere. This takes a lot of energy, is expensive and a waste of valuable nitrogen fertilizer.

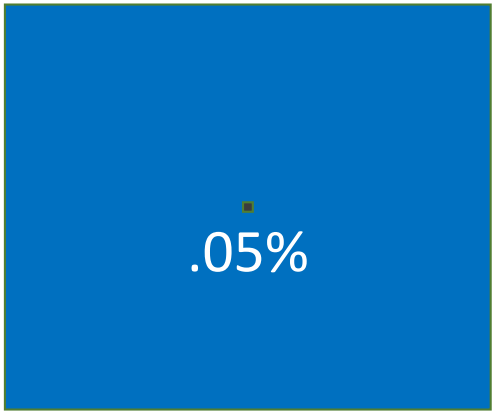
Phosphorus as P2O5:

Phosphorus is a mineral, never a gas. Plants want phosphorus as P2O5 which is prevalent in waste water. Waste water treatment plants do a reasonable job of concentrating the phosphorus in the solids along with lots of carbon and residual water. The only way to keep phosphorus from re-entering the environment is to put it in truck and haul it away.

SEDRON TECHNOLOGIES

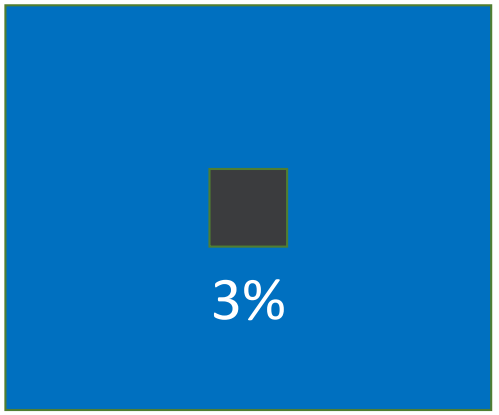
% solids in different waste streams

1



Pure Water in Raw Sewage
Solids in Raw Sewage

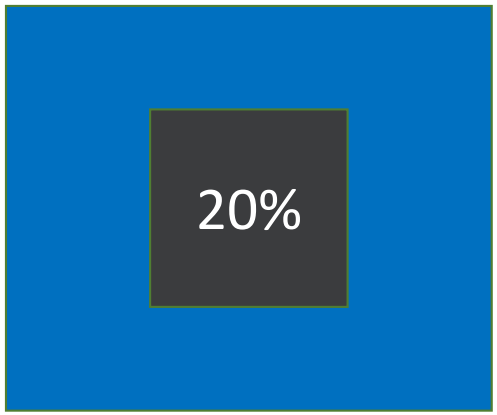
2



This also contains 1000ppm of ammonia

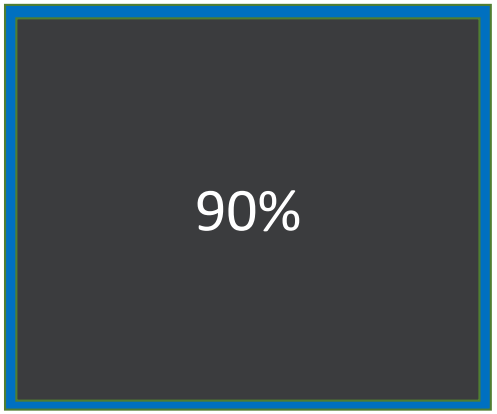
Pure Water from bottom of clarifier
Solids from bottom of clarifier

3



Pure Water in dewatered biosolids
Solids in dewatered biosolids

4



Pure Water after Varcor
Solids after Varcor

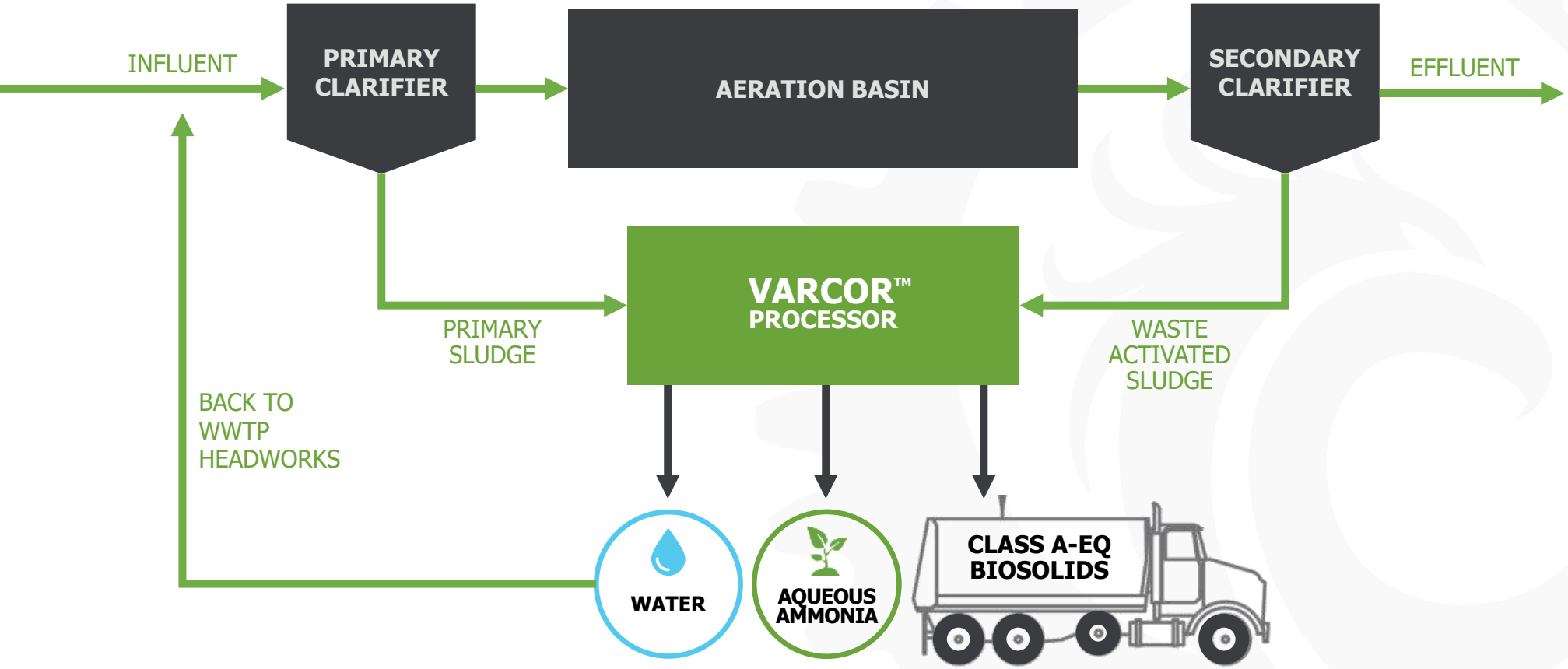
SEDRON TECHNOLOGIES

Combustion reduces
Volume 9X

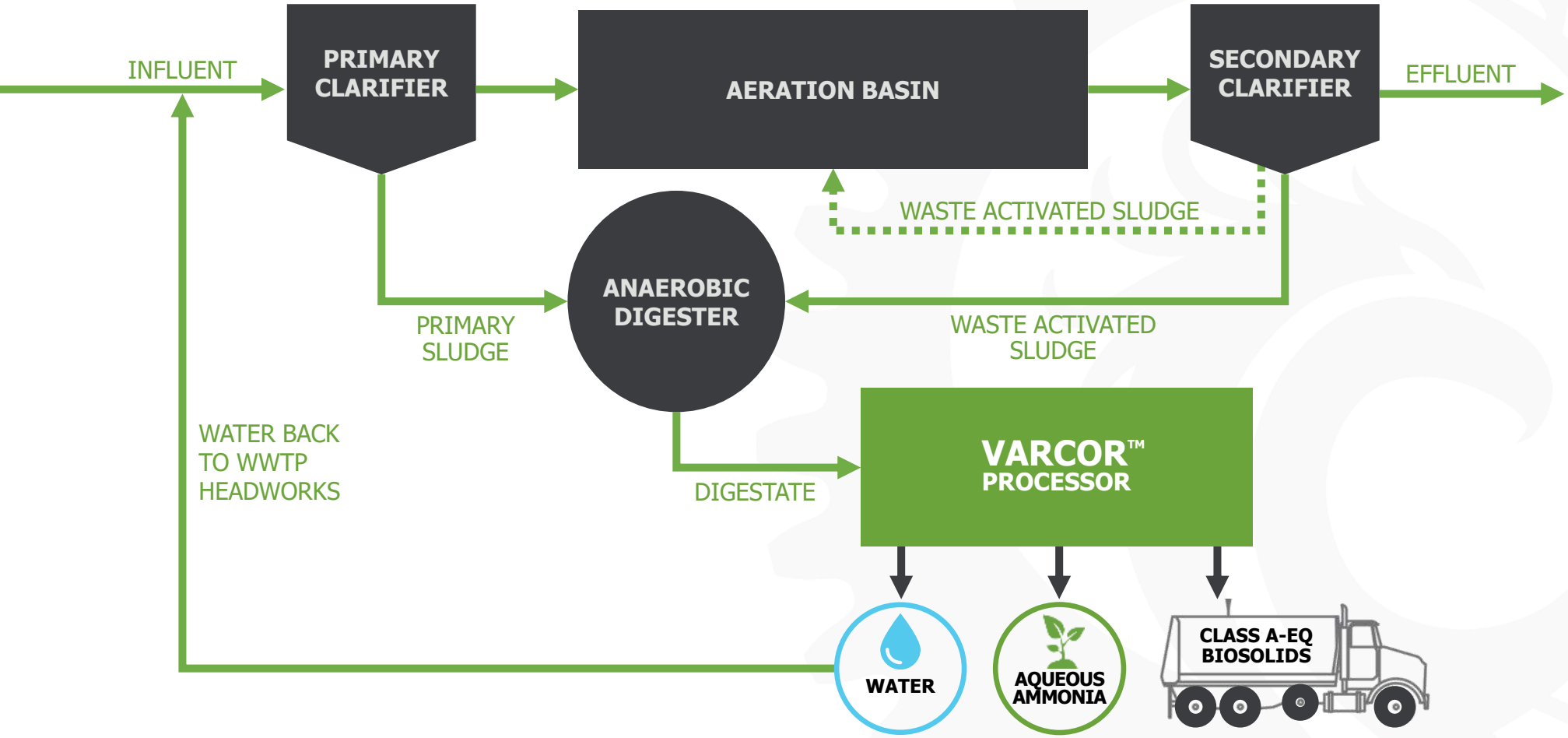
- Pure Water in solids after Varcor
- Solids after Varcor
- 1.7% Phosphorus in solids after Varcor
- 5.5% Nitrogen Solids after Varcor
- 14% Phosphorus in solids after Combustion

SEDRON TECHNOLOGIES

WWTP SLUDGE APPLICATION



WWTP WITH ANAEROBIC DIGESTION

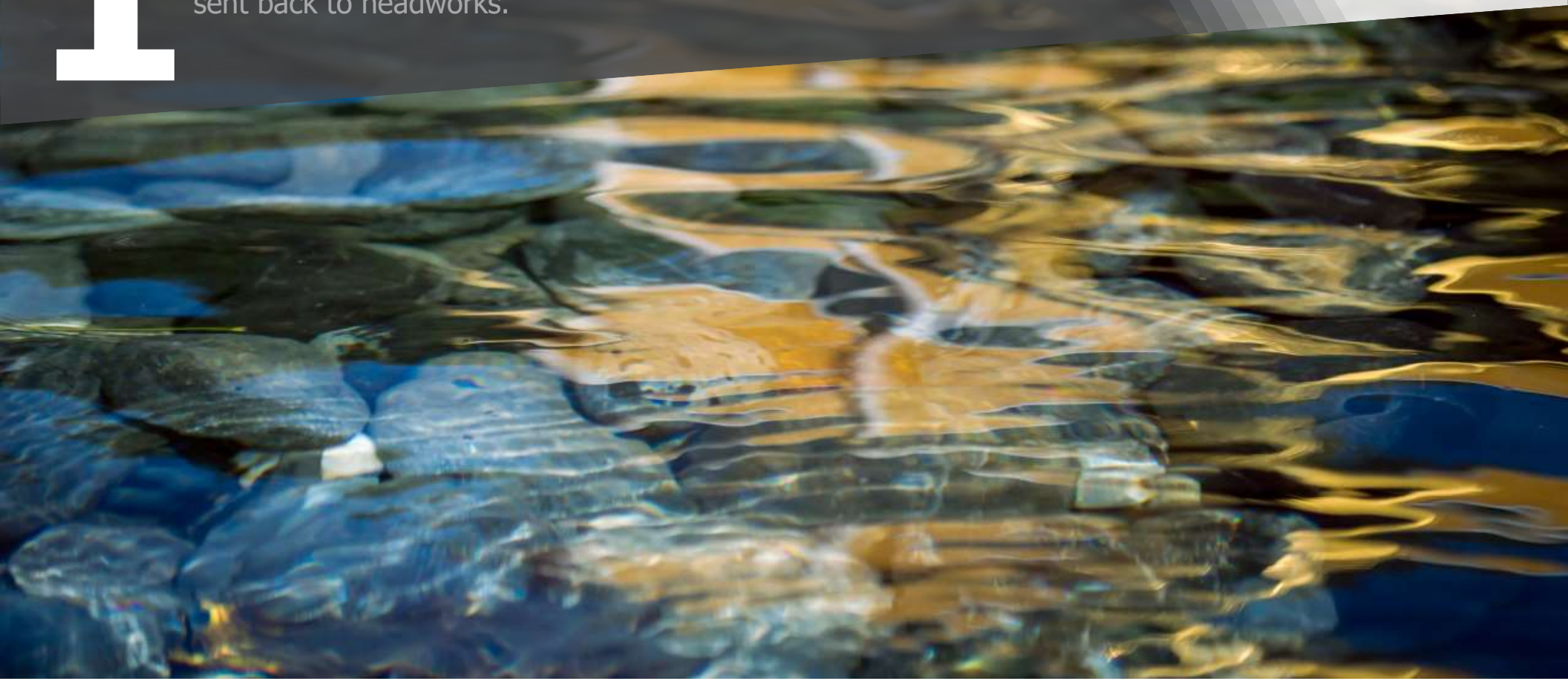


VARCOR™ Process Outputs for WWTPs:

SEDRON TECHNOLOGIES

1 CLEAN, RECLAIMED WATER

can be recycled for beneficial reuse purposes or sent back to headworks.

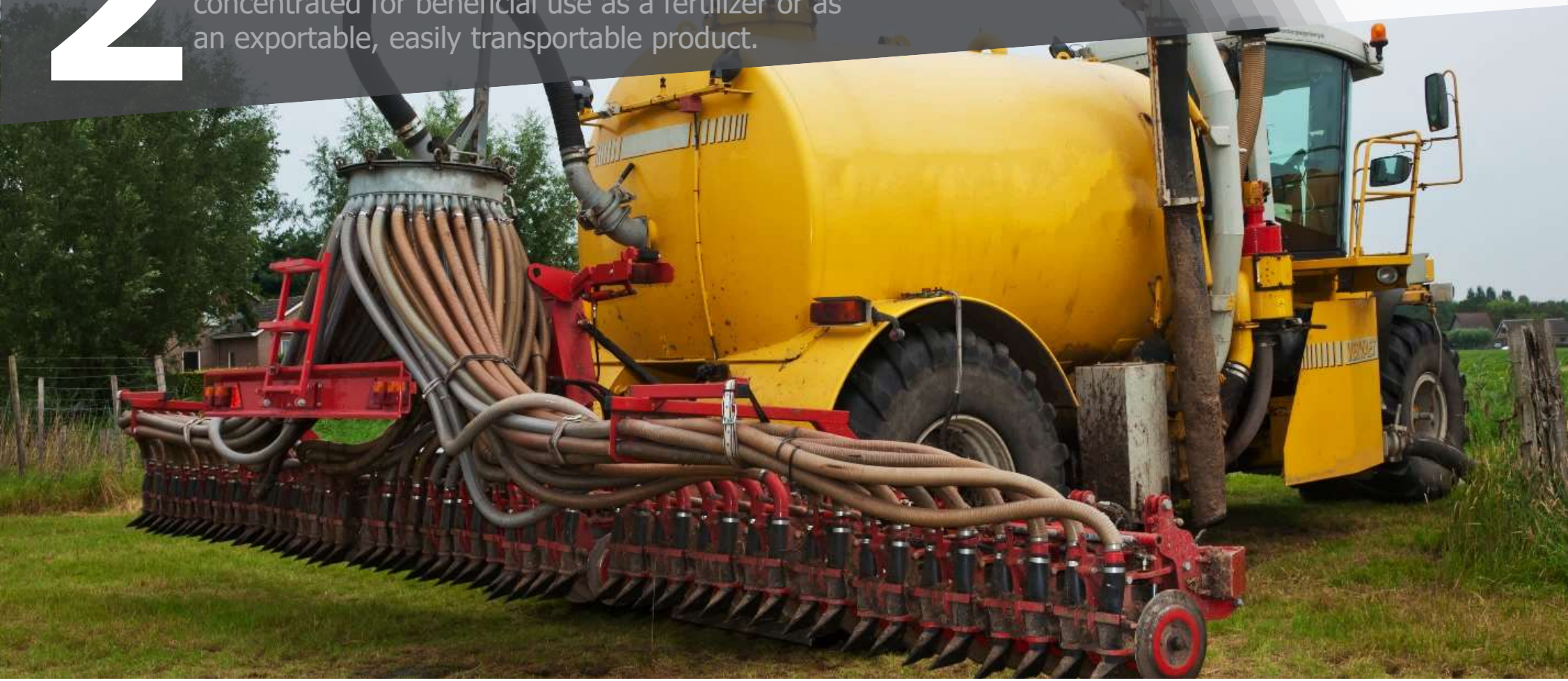


VARCOR™ Process Outputs for WWTPs:

SEDRON TECHNOLOGIES

2 NITROGEN FERTILIZER

(Aqueous Ammonia) that is pathogen-free and concentrated for beneficial use as a fertilizer or as an exportable, easily transportable product.

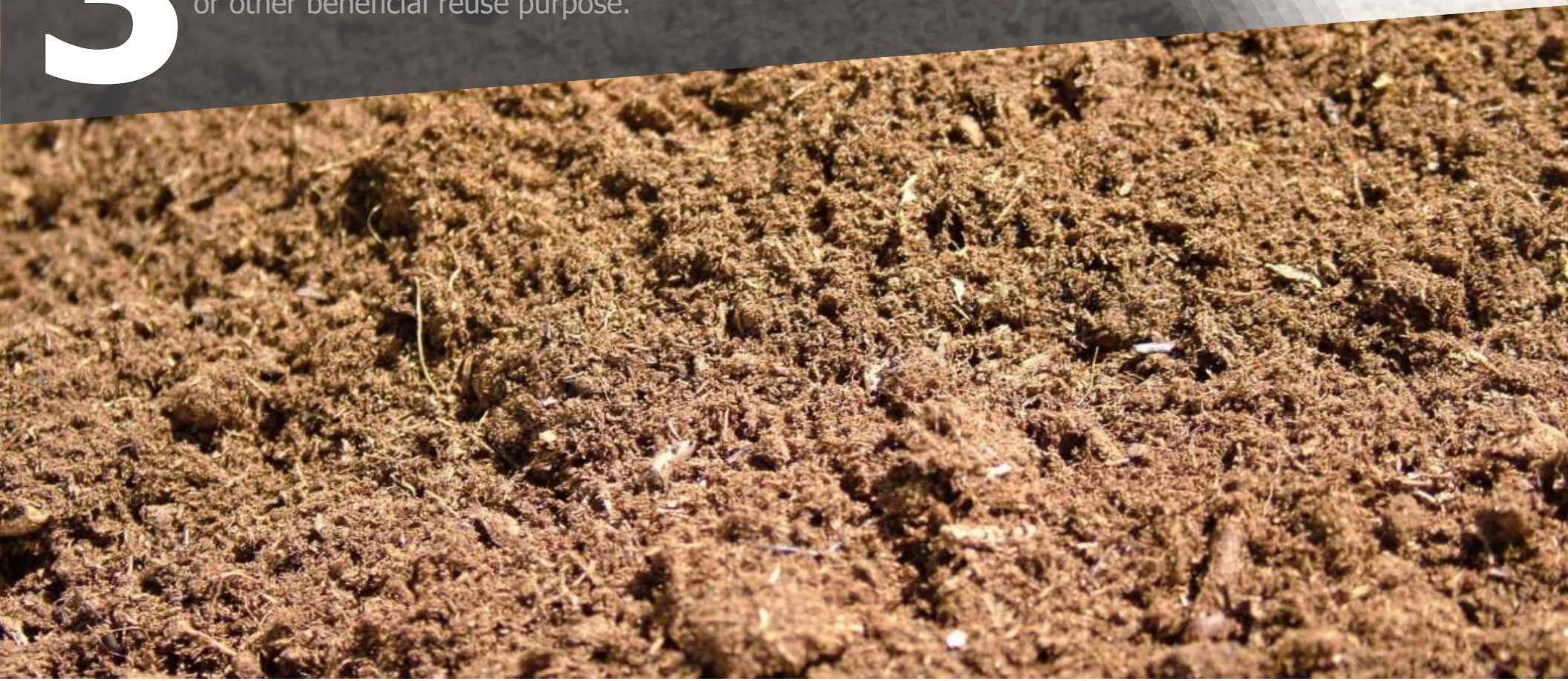


VARCOR™ Process Outputs for WWTPs:

3 DRY CLASS A (EQ) BIOSOLID

for use as a nutrient-rich fertilizer, soil amendment, or other beneficial reuse purpose.

SEDRON TECHNOLOGIES



VARCOR™ Technology captures and concentrates nitrogen. It does not destroy nitrogen as a fertilizer.

Nitrogen Fertilizer Plant Making Nitrogen Fertilizer from Fossil fuels

Waste Water Treatment Plant Destroying Nitrogen Fertilizer at Large Capital & Energy Cost

SEDRON TECHNOLOGIES

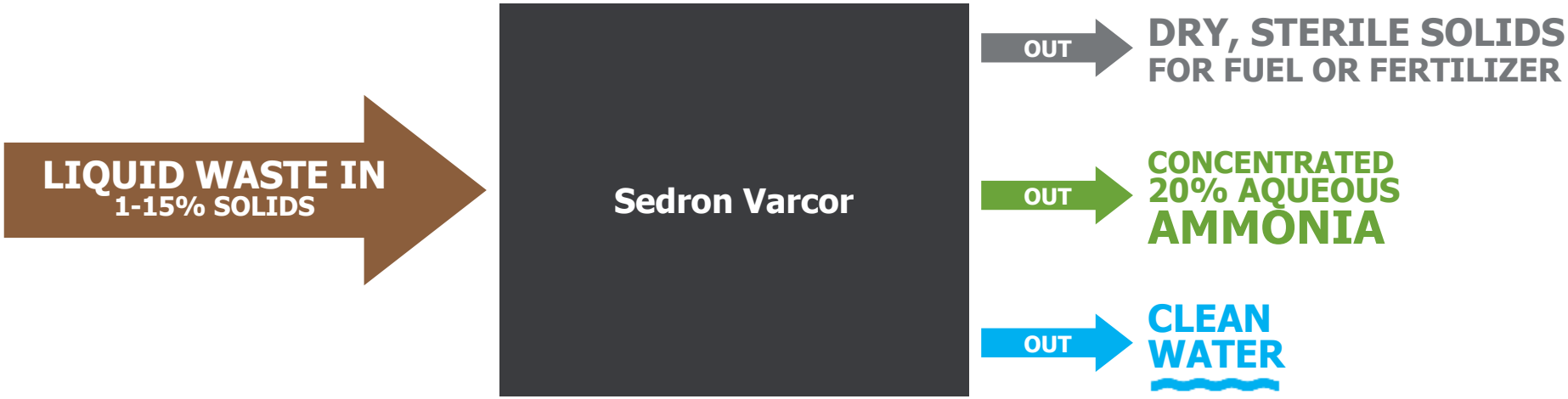
MINING VALUABLE PHOSPHORUS

The Environmental Impact

The phosphorus content in the ash from the Janicki Omni Processor is greater than 14%.

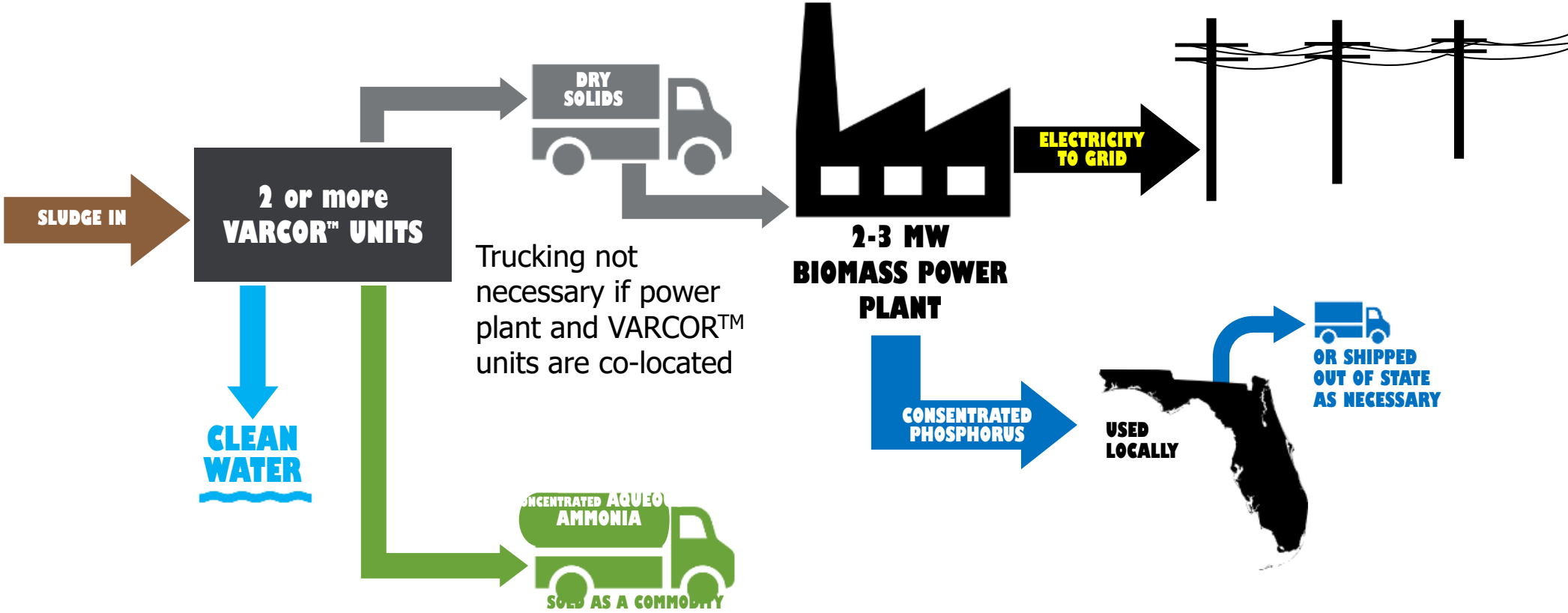
SEDRON TECHNOLOGIES

VARCOR™ PROCESSOR
Inputs & Outputs



SEDRON TECHNOLOGIES

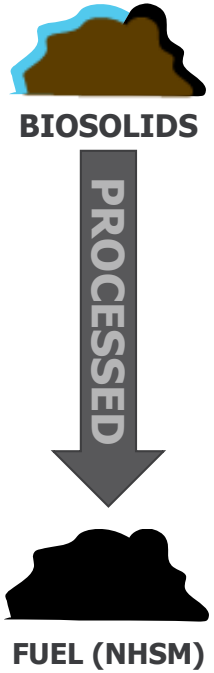
FLORIDA PROJECT PROCESS FLOW



SEDRON TECHNOLOGIES

BIOMASS POWER PLANT
Emissions Regulations

	SOLID WASTE	FUEL (NHSM)
CLASSIFICATON OF SUBSTANCE	 Discarded as waste	 Managed as a valuable commodity
HEATING VALUE	No meaningful heating value <5000 BTU/lb	Meaningful heating value >5000 BTU/lb
CONTAMINANT LEVELS	 SOLID WASTE COAL/BIOMASS Contaminants greater than traditional fuels	 FUEL COAL/BIOMASS Contaminants comparable to or less than traditional fuels



- ✓ Remove or destroy contaminants
- ✓ Significantly improve fuel characteristics
- ✓ Sizing or drying the material

SEDRON TECHNOLOGIES

FUEL DESIGNATION

VARCOR™ Fuel Used in Biomass Power Plant

TRADITIONAL INCINERATOR	BIOMASS POWER PLANT
Functions as an incinerator	Functions as a boiler
Primary purpose is disposal of waste	Primary purpose is recovery of useful energy
Combustion of solid waste	Combustion of valuable fuel
Input (solid waste) is discarded as waste	Input (fuel) is managed as a valuable commodity
Input has heating value below 5,000 BTU/lb	Input has heating value above 5,000 BTU/lb
Input has higher contamination levels than traditional fuels	Input has comparable or lower contamination levels to traditional fuels

INCINERATOR

BOILER

SEDRON TECHNOLOGIES

Combustion destroys:

1. Pathogens
2. PCBs
3. Pharmaceuticals
4. Odor
5. Cosmetics
6. Herbicides
7. Fire Retardants
8. VOCs
9. Dioxins
10. Detergents

SEDRON TECHNOLOGIES

FLORIDA PILOT PROJECT CAPACITY

2 Varcor™ Processors & 1 Power Plant

1 VARCOR™ PROCESSING CAPACITY

FOR BOTH VARCOR™ PROCESSORS TOGETHER

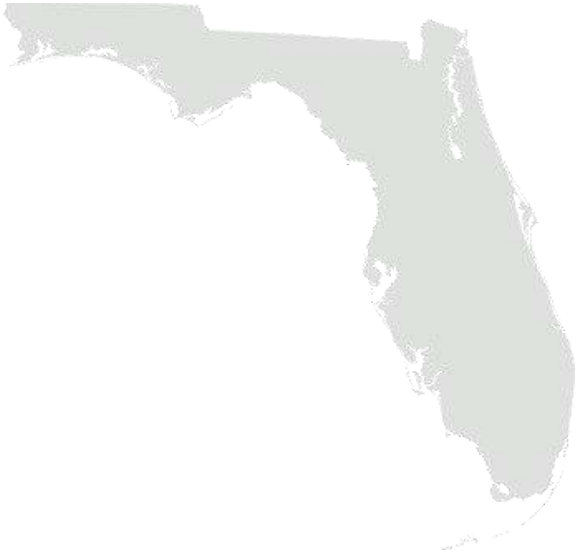
- ✓ 8% solids (1-15% allowable)
- ✓ Sludge in 150 GPM (75 GPM for each VARCOR™ unit)
- ✓ 73 dry tons/day
- ✓ 362 equivalent wet tons/day of biosolids at 20% solids cake
- ✓ 581 tons of Phosphorus captured and concentrated for shipment out of state
- ✓ 409 tons of Nitrogen captured and concentrated assuming 1500 PPM ammonia in sludge
- ✓ Electric cost to operate <0.8 cent/gallon

2 BIOMASS POWER PLANT PROCESSING CAPACITY

- ✓ 90 Dry tons per day
- ✓ 2 MW Electrical Output
- ✓ 1 MW net power to WWTP after powering two Varcor™ Processors
- ✓ Value of net power $788,400 @ $.09/kW-hr
- ✓ Concentrates Phosphorus for shipping out of state

SEDRON TECHNOLOGIES

20-Year Cost Summary Comparison



$50 Cost per wet ton of biosolids for 2-Varcor processors and 2 MW power plant Capex and Opex over 20 years

$60 Cost per wet ton of biosolids to land apply.

SEDRON TECHNOLOGIES

VARCOR™
Flexible Implementation Options

1

ZERO CAPITAL COST

A WWTP can contract out treatment to Sedron.

Sedron will then install and operate a Varcor™ system to process the material at a contracted rate. Sedron would also handle the offtake of biosolids and aqueous ammonia fertilizer for beneficial re-use. This allows a WWTP to utilize the most advanced and reliable biosolids and nitrogen handling systems without having to secure the funds required for a capital purchase.

If at anytime during the contract period the WWTP wants to purchase the Varcor™ system, a buyout agreement is available. This would allow the Varcor™ to be implemented quickly while capital funding is secured for the purchase.

2

CASH PURCHASE

A WWTP can purchase a Varcor™ outright and keep operations in-house.

Sedron will work closely with the WWTP's preferred engineering consultant firm to support the installation and commissioning of the Varcor™ system to ensure it integrates properly with the WWTP. It is a complete turnkey installation that can include different levels of service plans to ensure continued reliable usage throughout the life of the unit.

SEDRON TECHNOLOGIES

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

_____ *Meeting Date*

_____ *Bill Number (if applicable)*

Topic Sedron

_____ *Amendment Barcode (if applicable)*

Name Peter Janicki

Job Title CEO

Address 133 W State Street *Street*

Phone _____

Sedro-Woolley *City* WA *State* 98284 *Zip*

Email Peter@Janicki.com

Speaking: ☐ For ☐ Against ☒ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☒ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

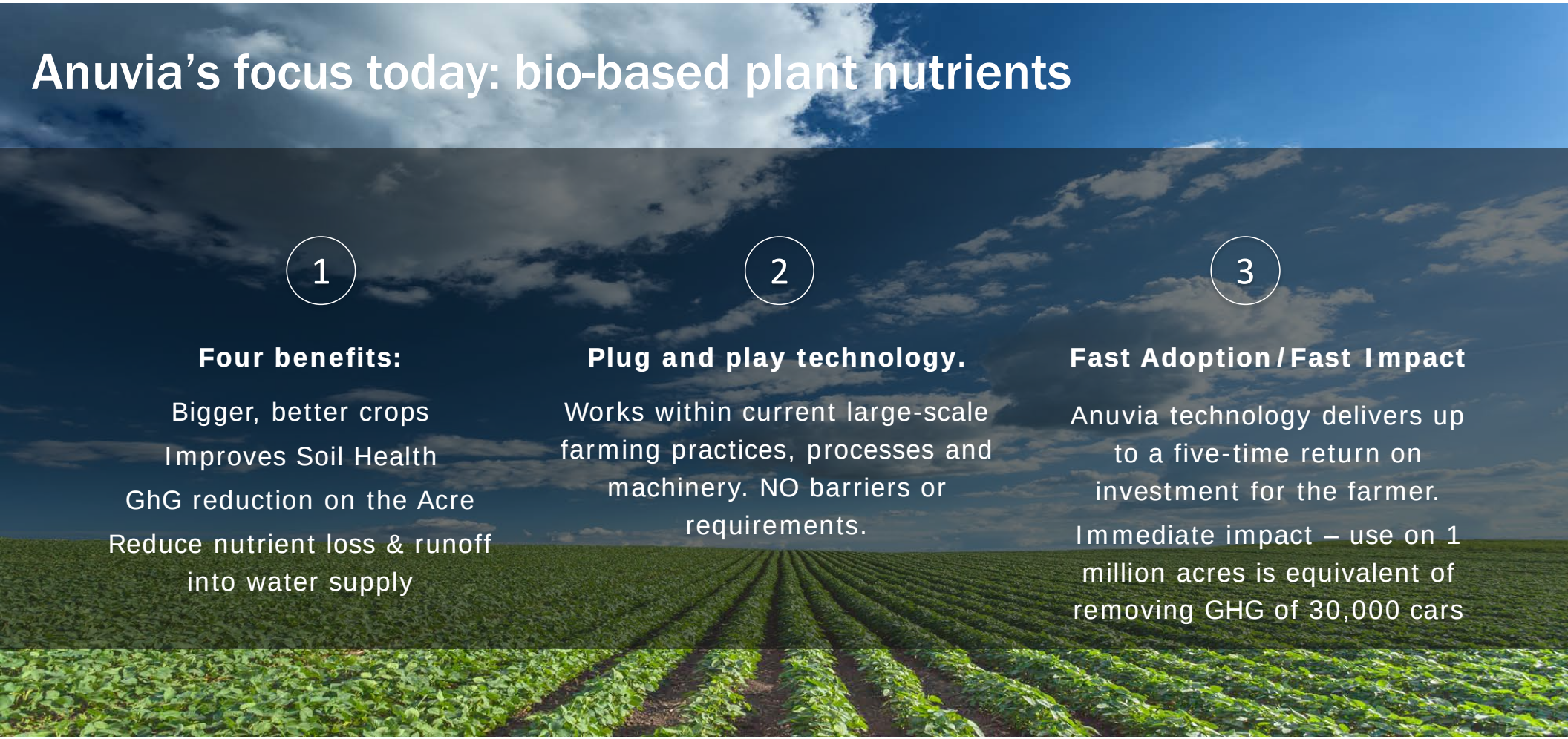
While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)


ANUVIA™
PLANET INSPIRED PRODUCTS

Anuvia's focus today: bio-based plant nutrients



1

Four benefits:

Bigger, better crops

Improves Soil Health

GhG reduction on the Acre

Reduce nutrient loss & runoff into water supply

2

Plug and play technology.

Works within current large-scale farming practices, processes and machinery. NO barriers or requirements.

3

Fast Adoption/Fast Impact

Anuvia technology delivers up to a five-time return on investment for the farmer.

Immediate impact – use on 1 million acres is equivalent of removing GHG of 30,000 cars

Already used on ***over 1 million acres*** of cropland in the USA

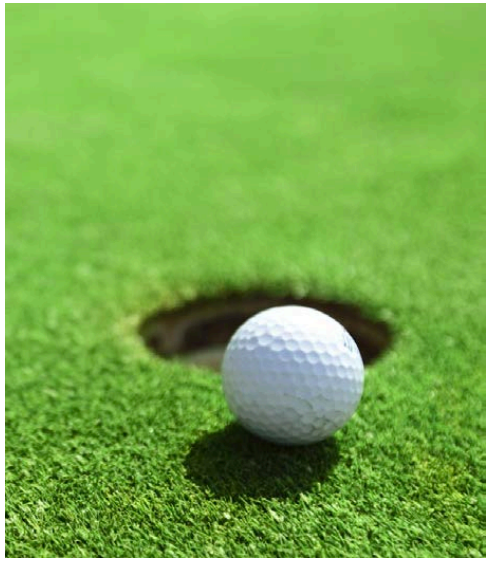
Anuvia – Unique Fertilizer Technology – Three Segments

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 87%

SYMTRX™

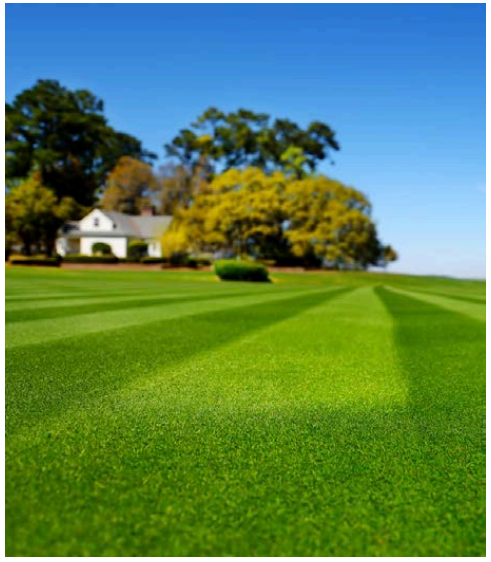
Commercial Agriculture

GREENTRX™



Commercial Lawn Care

ANUGREEN



Consumer Lawn Care

AGRICULTURE CHALLENGES: NUTRITION AND SUSTAINABILITY

> $3.5 billion dollar value loss from Nitrogen leaching per year

- $7 bn Nitrogen applied annually
- **~50% lost** through leaching and evaporation

Soil **quality continues to deteriorate** with intensive farming

Agriculture contributes to **~10% of U.S. greenhouse gas** emissions

WHAT'S DRIVING SUSTAINABLE AGRICULTURE

Public and private forces are aligning to shift production agriculture toward more sustainable practices

Consumer-facing companies like Walmart and Campbell Soup Company are creating demand in their supply chains for sustainably grown grain.

Walmart committed to 75% of its grain supply to come from sustainable practices by 2020

ProjectGigaton™

Cargill Smithfield

Tyson Kellogg's PEPSICO

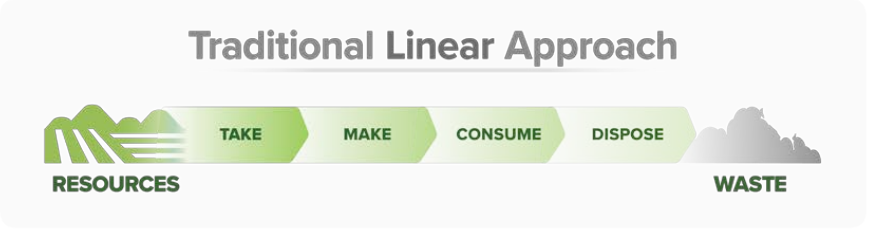
General Mills the Wonderful company

20 million acres

ANUVIA PLANET INSPIRED PRODUCTS

Enabling the Circular Economy

- Anuvia utilizes organic feedstocks – recycling back to the land to feed the soils and improve soil health
- Recycles nutrients that would be bound in organics (eg Phosphate in Smithfield manure)
- Enabling – Sustainable Solutions
  - Influence of Big Food on production Agriculture – Driving sustainable strategies
- Strategic partners
  - Smithfield Foods
  - A tangible example of Field to Table strategies
  - Recycling organic materials back into agriculture
  - Nutrient recycling



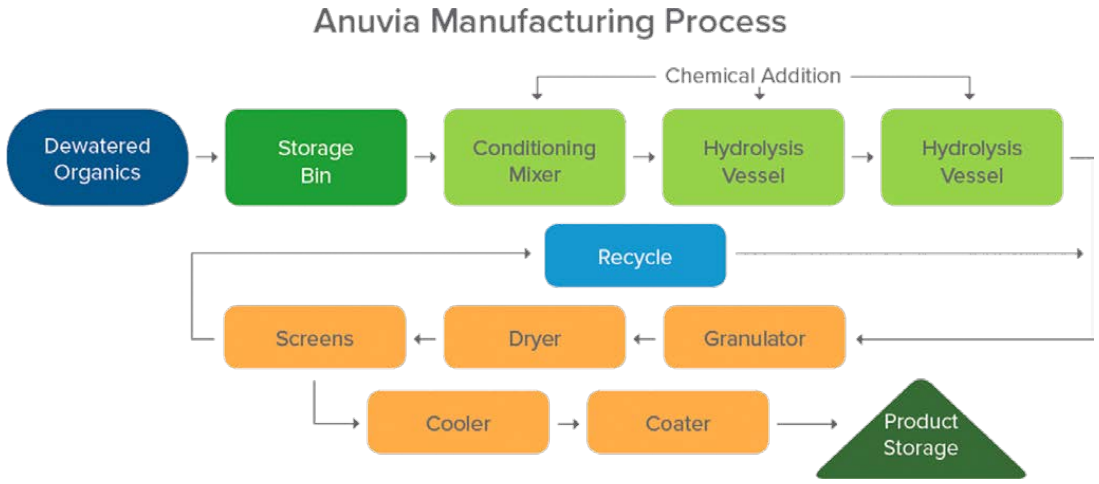
Novel Technology

- US and International patents issued
- Uses multiple sources of organic materials
  - Animal organics
    - Digested manures
  - Industrial organics
    - Whey
    - Soy protein
    - Nut hulls
    - Peanut hulls
  - Food Waste
  - Wastewater organics (Biosolids)

Organic Materials Neutral

Manufacturing Process Features

- Provides high stress hydrolytic reaction conditions
- Liquefaction of all materials- Sterility is achieved
- Hydrolysis of organic molecules (protein ➡ amino acids)
- Fuses inorganic nutrients with organic constituents



No waste stream from production of product Exceed EPA EQ standards

ANUVIA'S CURRENT PLANT ALREADY RUNS AT SCALE WITH HIGH CUSTOMER ACCEPTANCE

- Production plant operating since 2016
- Zellwood's established operating capacity at 72,625 tons of capacity
  - -Production enough to treat >1mm acres
- New large- scale production facility in partnership with **The Mosaic Company** to provide up to 1.2 million tons for Ag Markets

Zellwood, FL facility

Top 5 customers

SOUTHERN STATES

Nutrien

Meherrin

CO-OP

FG Ag Services LLC

Barret Farm Service

WEDGWORTH'S

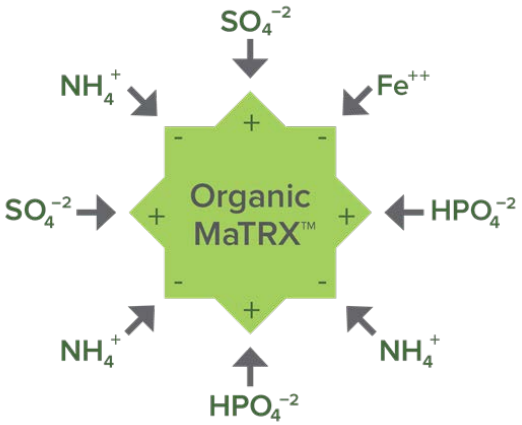
Anuvia – Mosaic Manufacturing Relationship

- A manufacturing relationship
  - Long term lease of the Mosaic - Plant City manufacturing facility
  - Site to be retrofitted to manufacture Anuvia's bio-based products
  - Provides viable economics to manufacture a bio-based nutrient product with scale
- Site Provides
  - Site can produce up to 1.2 million tons of product
  - Scalability – 3 lines that can be phased into production – Balance Supply and Demand
  - Meaningful storage to stage product
  - Direct line rail to serve the market
  - Ready access to water to serve both domestic and international market.

ANUVIA TECHNOLOGY – HOW IT WORKS

- Reaction process attaches inorganic nutrients (N, S, P) to the charged amino acids forming the Organic MaTRX
- Organic MaTRX releases bound nutrients over time
  - 65% of nitrogen release in first 2-3 weeks; 35% over the next 4-6 weeks
- Organic matter (OM) serves as a docking site for the nutrients - products deliver up to 16% OM back to the soil
  - Microbes feed on the Organic MaTRX and break the bonds between the amino acids and the nutrient
- Current products deliver Nitrogen, Phosphorus and Sulfur
  - Ability to serve as carrier for other nutrients

Microbes feed on bonds



Cation and anion absorption (sequestration) by organic matter (OM)

SymTRX: Enhanced Efficiency Homogenous Multi-Nutrient

SYMTRX 20S™ 16-1-0-20S

SYMTRX 10S™ 14-24-0-10S

- Nitrogen as Ammonium N (NH_4+)

  Most efficient form of N used by crops

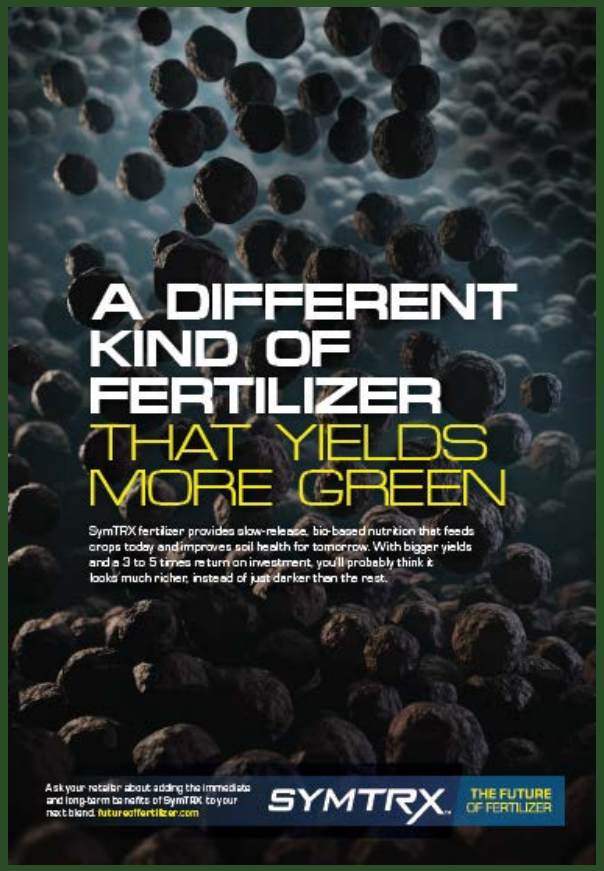
- Sulfur as Sulfur Sulfate (SO_4=)

  Plant available source of sulfur

- Phosphate as Orthophosphate (H_2PO_4)

ANUVIA PLANT INSPIRED PRODUCTS

The Future of Fertilizer

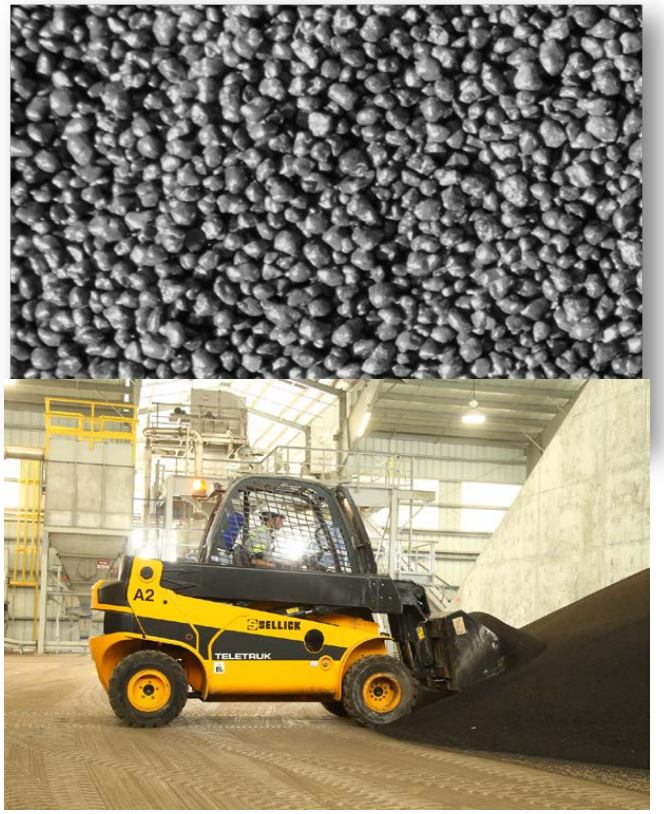


ANUVIA
PLANET INSPIRED PRODUCTS

	ANUVIA PLANET INSPIRED PRODUCTS	Conventional fertilizer
Benefits for the Farmer		
Improves yield	✓✓	✓
Enhances soil health	✓	✗
Delivers organic matter back to the soil	✓	✗
Stimulates soil microbes	✓	✗
Low-cost input	+$5 / Acre	Standard
Benefits for the Planet		
Reduces GHG emissions	✓	✗
Re-uses organic matter	✓	✗
Slow-release nitrogen	✓	✗
Minimizes nutrient leaching and volatility – improves water quality	✓	✗

High Quality Product

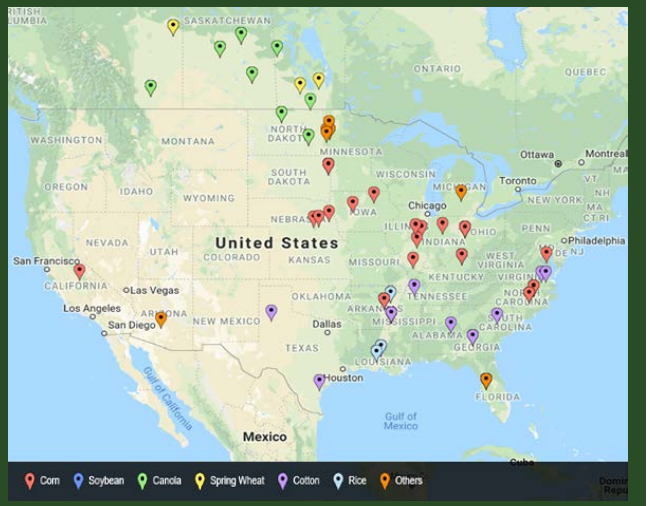
- High Commercial Quality:
  - Spherical granules
  - Size 300 SGN
  - 6-8 # hardness
  - Dry = >98% solids
- Uses proven granulation equip
- Product in bulk, super sack and 25kg bag



Consistent with Current Agricultural Practices

Replicated Research Trials "Creating High Confidence"

- 100+ trials University and Private Research trial completed
- Across multiple crops
- Across USA and Canada



ANUVIA'S PRODUCT PROVIDES SIGNIFICANT YIELD BENEFIT AND RETURN ON INVESTMENT

Crop	Corn	Cotton	Rice	Canola	Overall
Ave. yield advantage /Acre	7.3 bu	67.5 lbs	7.1 bu	2.3 bu	N/A
% yield increase	3.8	5.6	4.2	7.9	4.9
Incremental Ave. net revenue ($)/acre	$17.8	$40.0	$29.0	$20.6	$24.5

SymTRX® incremental cost per acre ~$5/acre

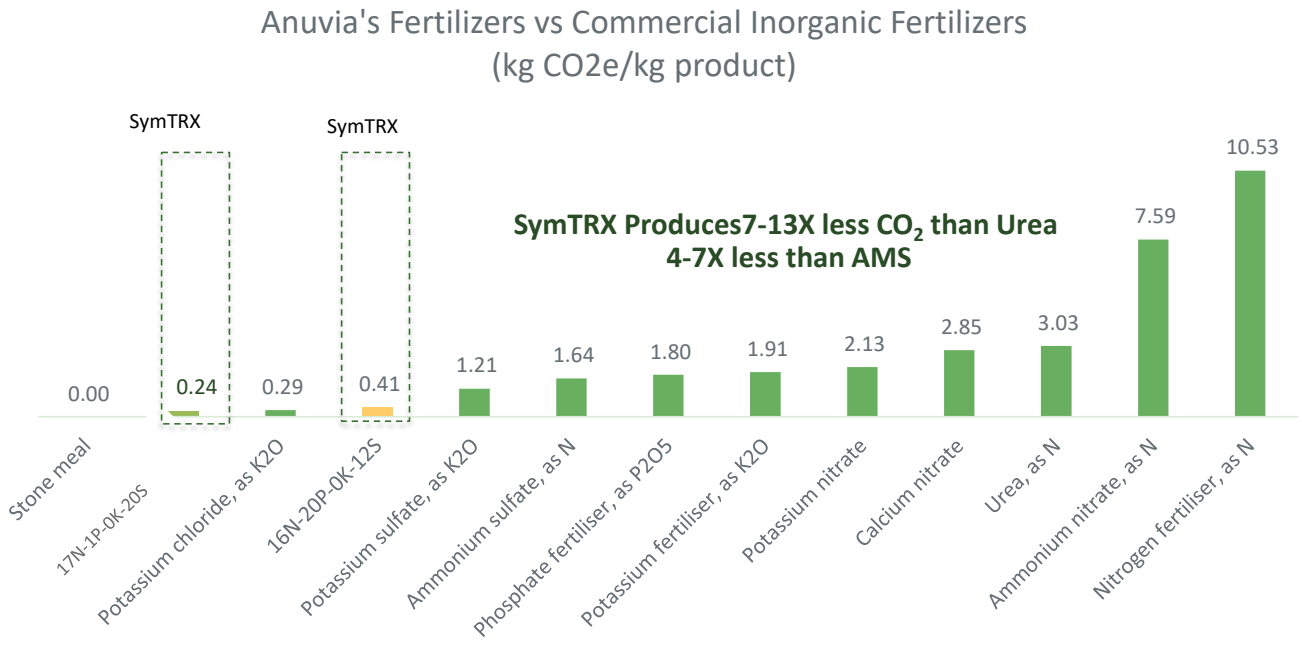
Source: Anuvia 3rd Party Trial data

[1] Data collected from 2016–2018

POSITIVE CARBON FOOTPRINT

Manufacturing - Cradle to Gate

- Assessment completed by Environmental Management Resources (ERM)
- Anuvia products have a smaller carbon footprint
- Contributes to reducing GHG emissions from Agriculture

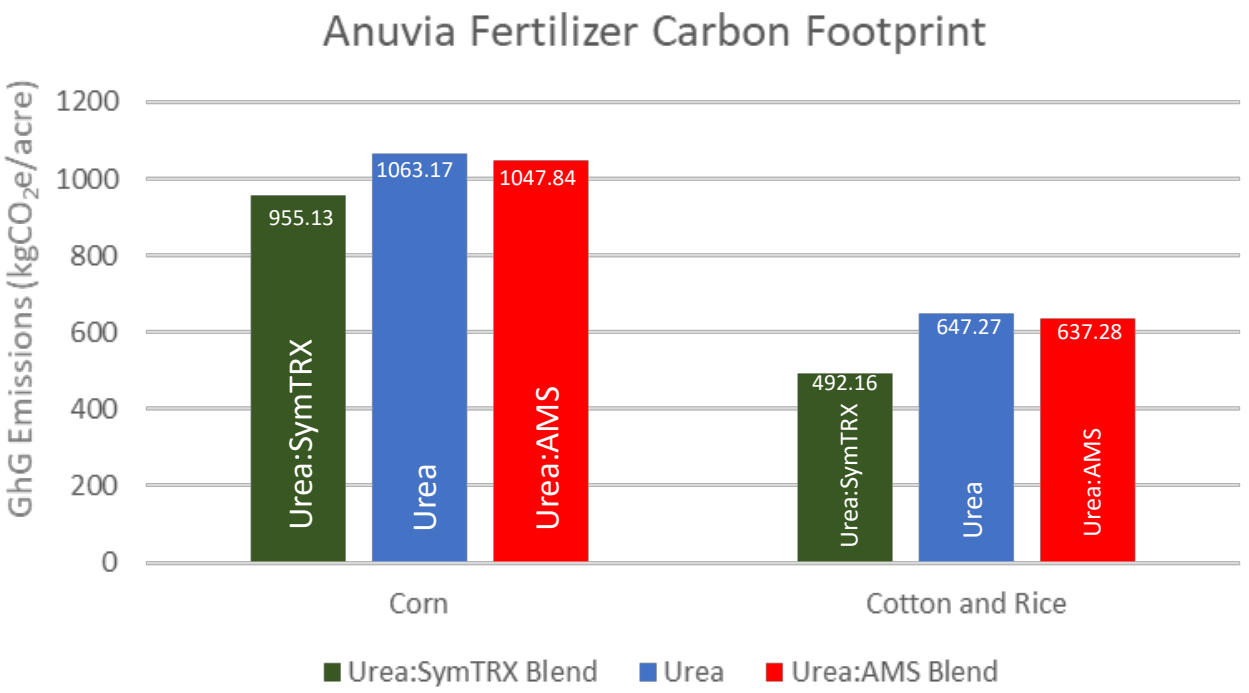


- The processes used in the comparative analysis consider the Ecoinvent® global market processes (not specific to USA), without transportation to the client.
- Anuvia's products showed best performance related to Carbon Footprint compared to commercial inorganic fertilizers analyzed.

Impact with Significance

Cradle to Grave

- Drop in replacement for Urea or AMS provides instant reductions in Agriculture's carbon footprint
- Reduction of GHG per acre compared to standard practice
- 1 Millions acres results in a reduction of GhG up to 170,000 tons or equivalent removing up to 30,000 cars



In Corn: SymTRX combination has 10% smaller carbon footprint

In Cotton/Rice: SymTRX combination has ~ 25% smaller carbon footprint

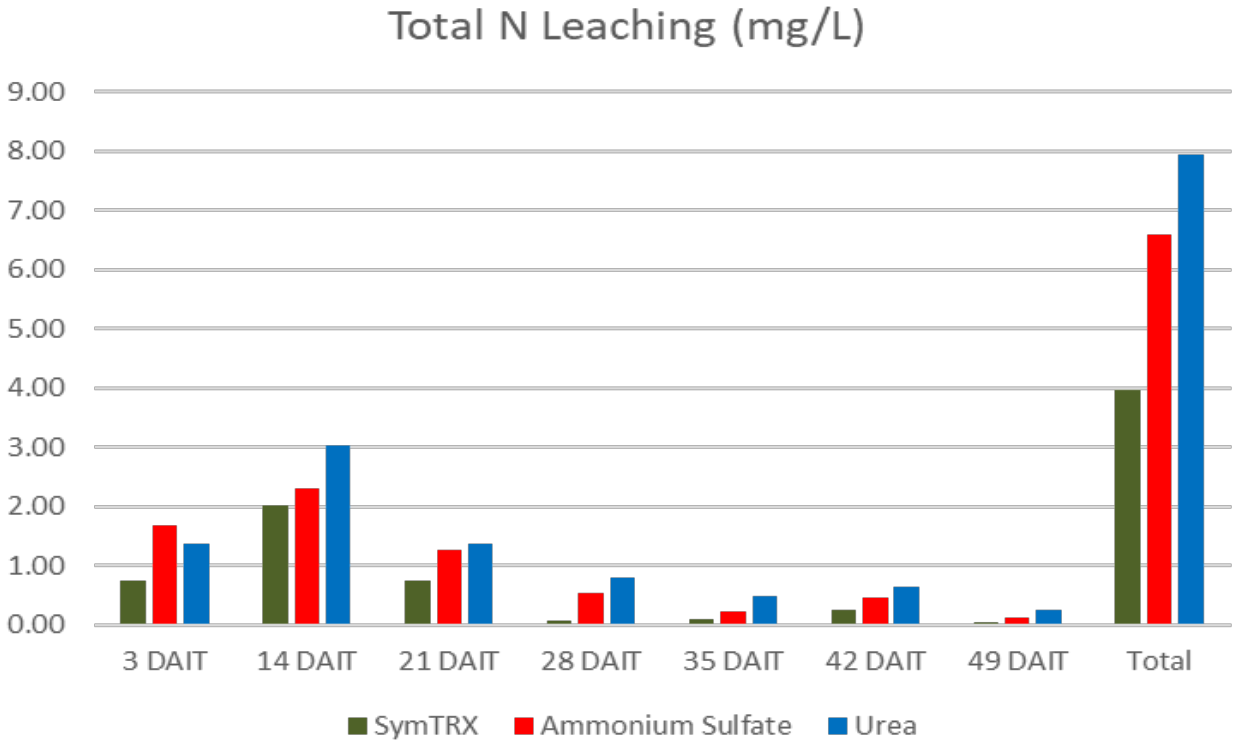
GHG reduction correlates with amount of SymTRX used in crop blend

Corn = high nitrogen (urea larger part of blend)

Cotton/Rice = less nitrogen required (SymTRX larger portion of blend)

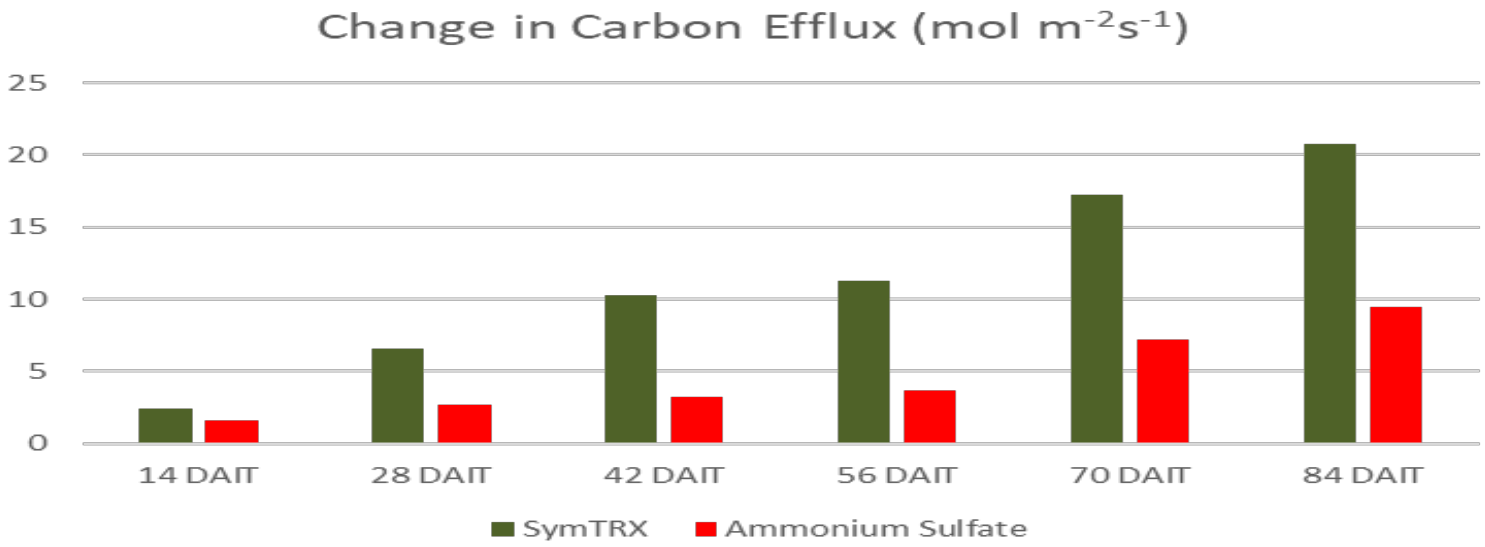
SymTRX
Improves Nutrient Utilization - Reducing Nutrient Loses

- Independent University research compared nitrogen leaching of Urea, AMS and SymTRX
- SymTRX use resulted in a
  - 39.9% reduction vs AMS
  - 50.2% reduction vs urea
- SymTRX reduces loss of nutrients into the environment protection water ways



Source: Dr. Gerald Henry – University of Georgia

Soil Health Assessment



246.8% increase in microbial activity

More rapid microbial recolonization

Source: Dr. Gerald Henry – University of Georgia

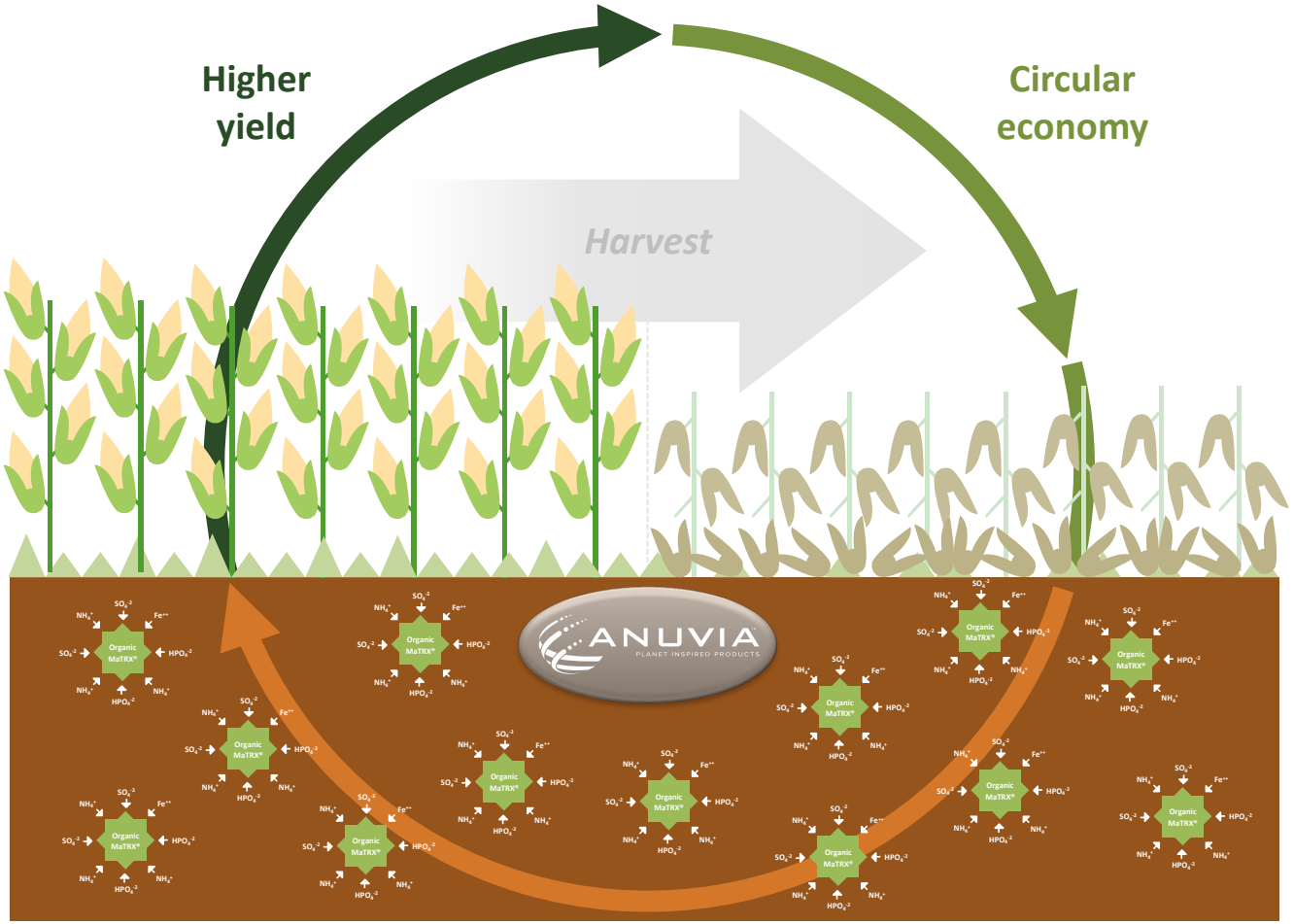
- Carbon efflux studies look at microbial activity in the soil – higher respiration indicates healthy more active microbial populations
- SymTRX feeds microbes increasing microbial activity – contributing to soils ability to regenerate

Anuvia Feeding Plants & Soil - Improving Soil Health

- Soil Health Improves:
  - Nutrient utilization
  - Water usage
  - Soil structure
  - Microbial colonies
  - Healthy crops
- Supports Sustainability

Better Soil Health = Better Plant Performance + Better Environment

ANUVIA'S PRODUCTS ADDRESS THE ECONOMIC AND ECOLOGICAL CHALLENGES OF AGRICULTURE



- ✓ Nutrient retention = More yield = More profit
- ✓ Less environmental impact
- ✓ Improved soil health
- ✓ Reuses agricultural and animal substrate
- ✓ Proven in the field

ANUVIA RECOGNIZED

Awards & Recognition

Anuvia is well recognized within the industry by a wide range of respected organizations. Some of our most prestigious awards include:

- SymTRX awarded “2019 Product of the Year” by Environmental Leader
- Anuvia awarded honorable mention in the food category for Fast Company’s 2019 World Changing Ideas Award
- 2019 Business Intelligence Group BIG Innovation Awards, Winner
- 2018 InnoSTARS Innovation Competition, Finalist
- 2018 SEAL (Sustainability Environmental Achievement Leadership) Awards, Winner
- 2018 Business Intelligence Group Sustainability Awards, Product of the Year
- 2017 Edison Awards, Bronze for Sustainability


ANUVIA™
PLANET INSPIRED PRODUCTS

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

Nov 13/19
Meeting Date

Bill Number (if applicable)

Topic ANUVIA PLANT NUTRIENTS

Amendment Barcode (if applicable)

Name HUGH MCGILLIVRAY

Job Title ~~CE~~ Chief Commercial Officer

Address 6751 West Jones Ave. PO Box 220. Phone 612-810-9685.
Street

ZELLWOOD FL 32798 Email HMCGILLIVRAY@
City *State* *Zip* ANUVIANUTRIENTS.CO

Speaking: ☐ For ☐ Against ☒ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing ANUVIA PLANT NUTRIENTS

Appearing at request of Chair: ☒ Yes ☐ No Lobbyist registered with Legislature: ☐ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

CourtSmart Tag Report

Room: EL 110 **Case No.:** **Type:**
Caption: Senate Appropriations Subcommittee on Agriculture, Environment, and General Government **Judge:**

Started: 11/13/2019 1:00:28 PM
Ends: 11/13/2019 1:49:52 PM **Length: 00:49:25**

1:00:44 PM Sen. Mayfield (Chair)
1:01:58 PM TAB 1 - Presentation on Biosolids by Sedron Technologies
1:02:37 PM Peter Janicki, CEO, Sedron Technologies
1:27:11 PM Sen. Mayfield
1:27:15 PM Sen. Broxson
1:28:11 PM P. Janicki
1:28:31 PM Sen. Mayfield
1:29:25 PM P. Janicki
1:31:18 PM Sen. Powell
1:32:05 PM P. Janicki
1:32:58 PM Sen. Mayfield
1:33:24 PM P. Janicki
1:33:53 PM Sen. Broxson
1:34:21 PM Sen. Mayfield
1:34:30 PM TAB 2 - Presentation on Biosolids by Anuvia Plant Nutrients, LLC
1:34:53 PM Hugh MacGillivray, Chief Commercial Officer, Anuvia Plant Nutrients
1:48:19 PM Sen. Mayfield

THE FLORIDA SENATE

Tallahassee, Florida 32399-1100

COMMITTEES:
Appropriations Subcommittee on Transportation, Tourism, and Economic Development, *Chair*
Appropriations
Appropriations Subcommittee on Agriculture, Environment, and General Government
Commerce and Tourism
Infrastructure and Security
Innovation, Industry, and Technology
Judiciary
Rules

SENATOR TRAVIS HUTSON
7th District

November 13, 2019

The Honorable Debbie Mayfield
404 S. Monroe Street
Tallahassee, FL 32399-1100

Chair Mayfield,

I am writing to request to be excused from today's Appropriations Subcommittee on Agriculture, Environment, and General Government. Thank you for your consideration of this request.

Respectfully,

Travis Hutson

REPLY TO:
❒ 4875 Palm Coast Parkway, NW, Suite 5, Palm Coast, Florida 32137 (386) 446-7610 FAX: (888) 263-3475
❒ 314 Senate Building, 404 South Monroe Street, Tallahassee, Florida 32399-1100 (850) 487-5007

Senate's Website: *www.flsenate.gov*

BILL GALVANO
President of the Senate

DAVID SIMMONS
President Pro Tempore