VARCOR™ System Sedron Technologies



SEDRON BACKGROUND













- ✓ Founded 1993
- ✓ Aerospace Parts
- ✓ Advanced Composites
- √ Complex Tooling
- √ 5-Axis CNC Machining
- ✓ 1,200+ Employees







- ✓ Founded 2014
- ✓ Water & Sanitation
- ✓ >200 Employees





JANICKI OMNI PROCESSOR





STRONG ENGINEERING TEAM















THE VARCOR[™] SYSTEM





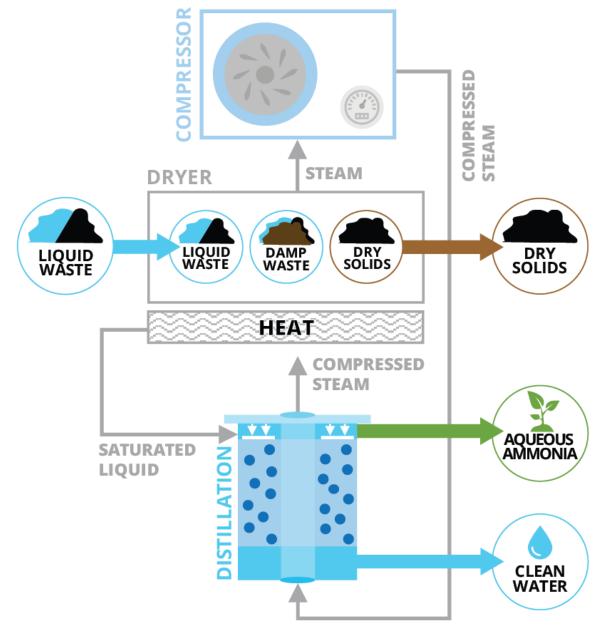
A COMPLETE, HOLISTIC LIQUID WASTE HANDLING SYSTEM

- Combined dewatering and drying
- ✓ Solids recovery for beneficial use
- ✓ Very clean steam stripped condensate





VARCOR[™] What it Does

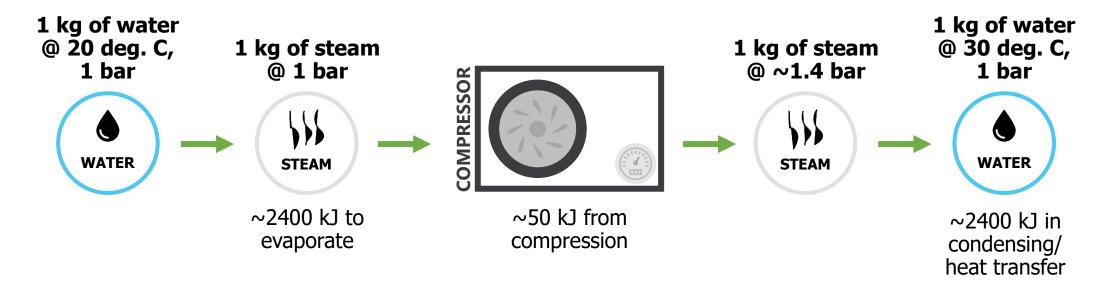




BACKBONE OF THE TECHNOLOGY

Mechanical Vapor Recompression (MVR)

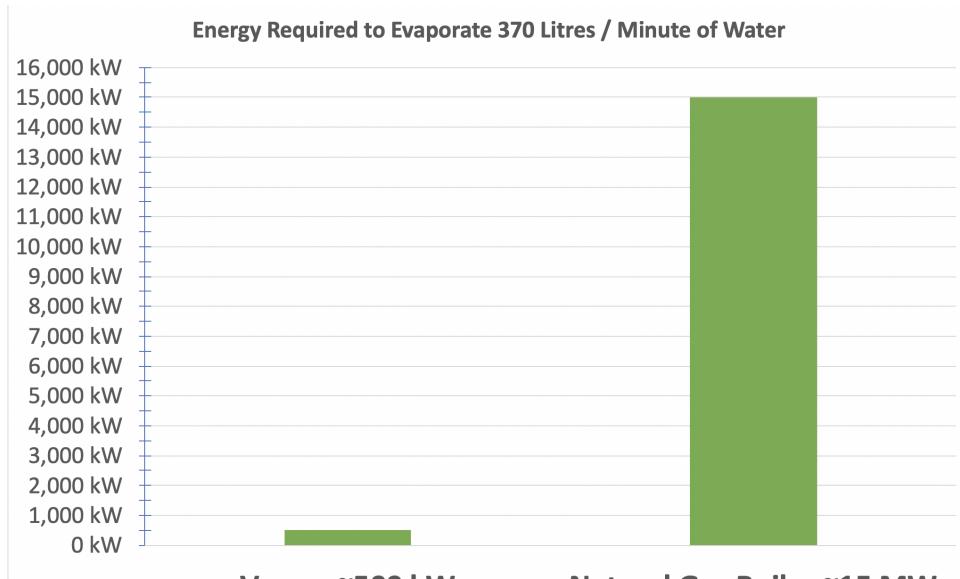
SIMPLIFIED THERMODYNAMIC ANALYSIS:



$$2400 \, kJ + 50 \, kJ - 2400 \, kJ = 50 \, kJ$$

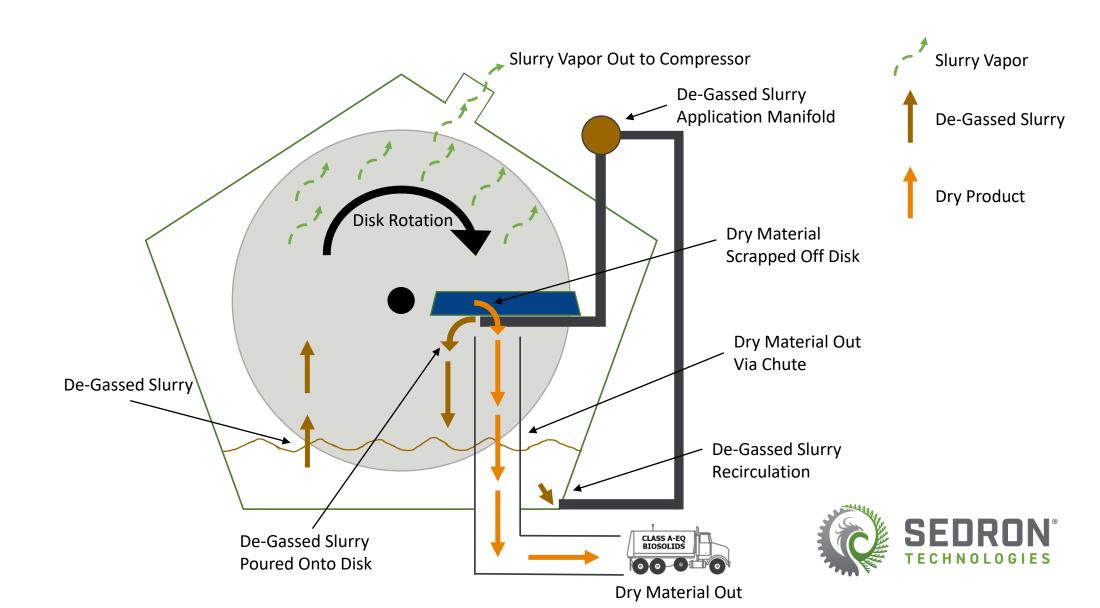


VARCOR[™] Energy Input vs Traditional Methods

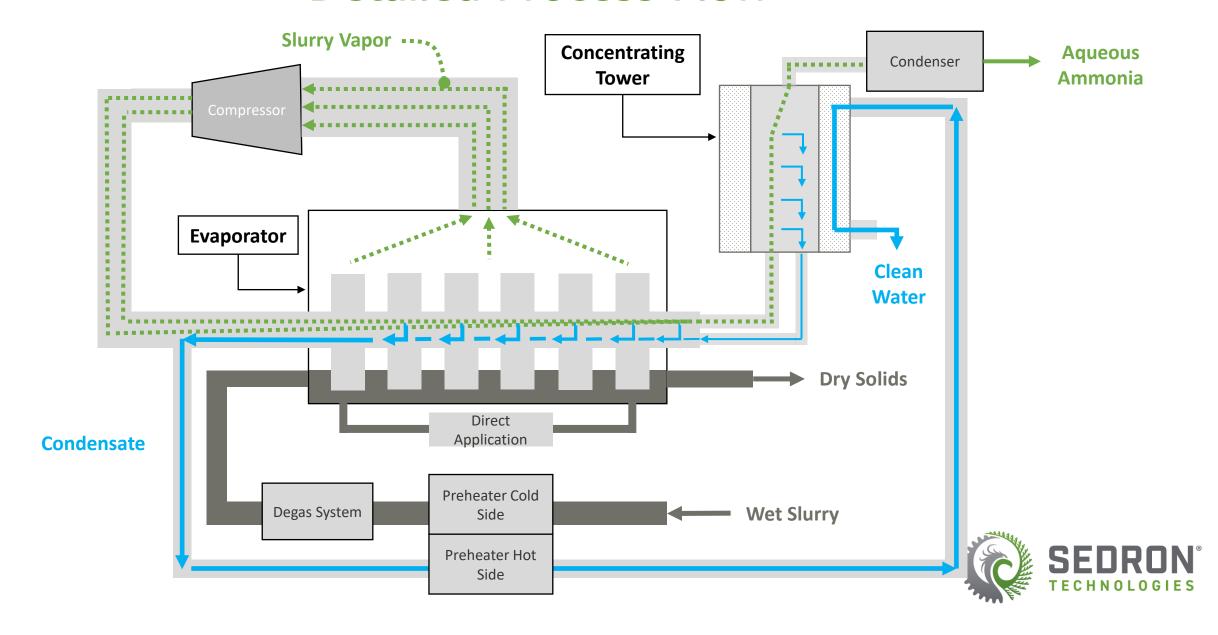




VARCOR Slurry Application & Thin Film Drying

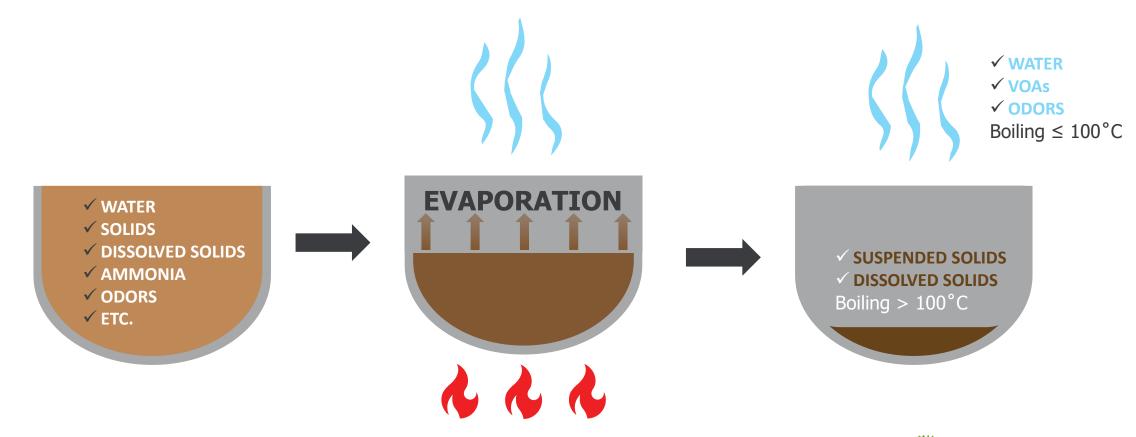


VARCOR™ Detailed Process Flow



VARCORTM Why is Varcor so effective?

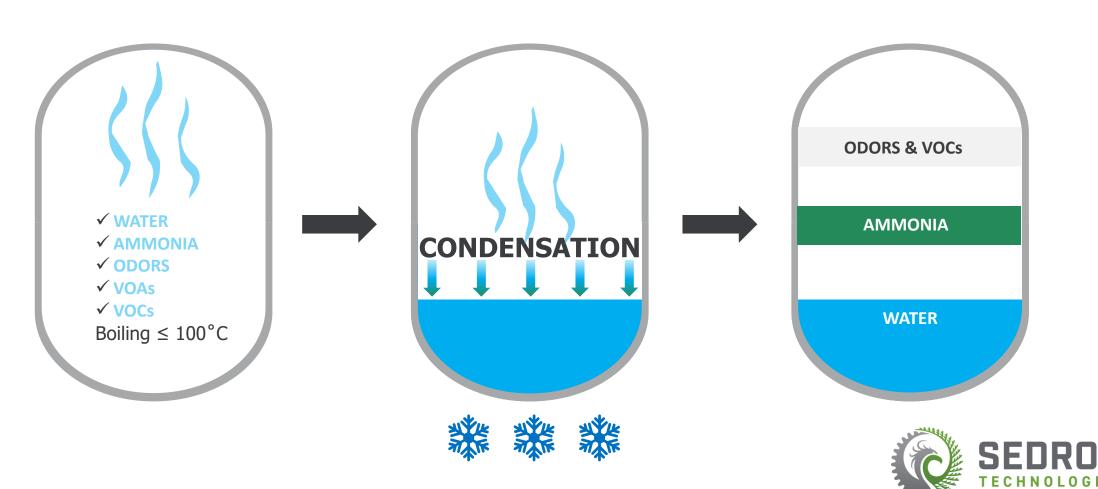
1. When you apply heat, evaporation separates the solids from the other components.





VARCORTM Why is Varcor so effective?

2. As the vapor cools & condenses, it releases each component at a different temperature through distillation.



VARCORTM Separation & Recovery Overview

| COMPONENT IN SLURRY | BOILING POINT > 100 CELSIUS? | END PRODUCT | |
|-------------------------------|-------------------------------------|----------------|-----|
| AMMONIA | NO | DISTILLATE | T |
| WATER | NO | CLEAN WATER | |
| P ₂ O ₅ | YES | DRY SOLIDS | VKS |
| K ₂ O | YES | | |
| ORGANIC NITROGEN | YES | | |
| ORGANIC CARBON | YES | | |



CLEAN WATER

WATER
PRODUCT
FOR RE-USE





DRY SOLIDS

AG:

- ✓ OMRI Certified
- ✓ Dry
- ✓ Pathogen Free





AQUEOUS AMMONIA

ORGANIC HIGH NITROGEN PRODUCT

OMRI CERTIFIED





USE CASES

CONFIDENTIAL



CORE BUSINESS MODEL: INFRASTRUCTURE AS A SERVICE (IaaS)



- ✓ Manure Management Fee
- ✓ Biosolids Tipping Fee
- ✓ Etc.

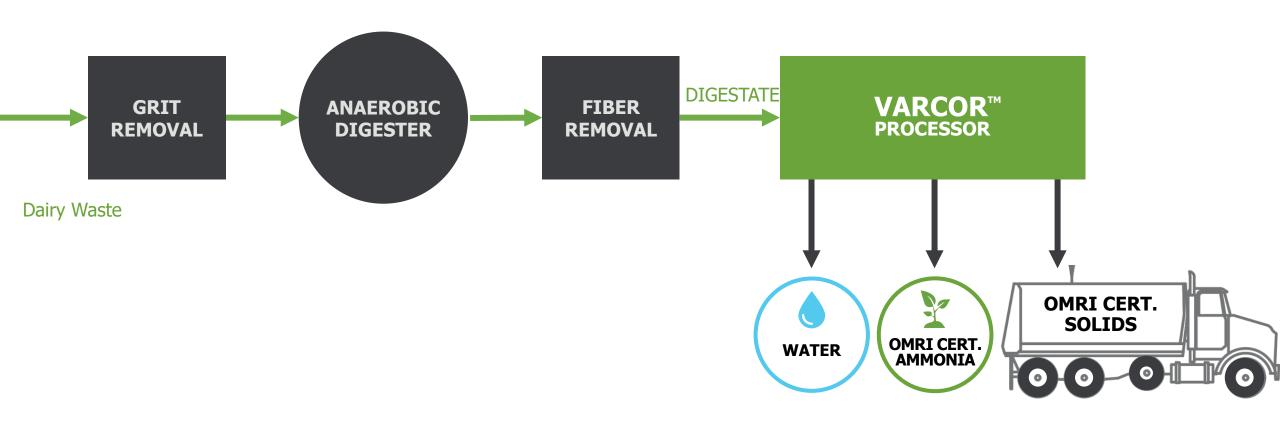


\$\$\$ OUTPUTS
OFFTAKE
CONTRACT

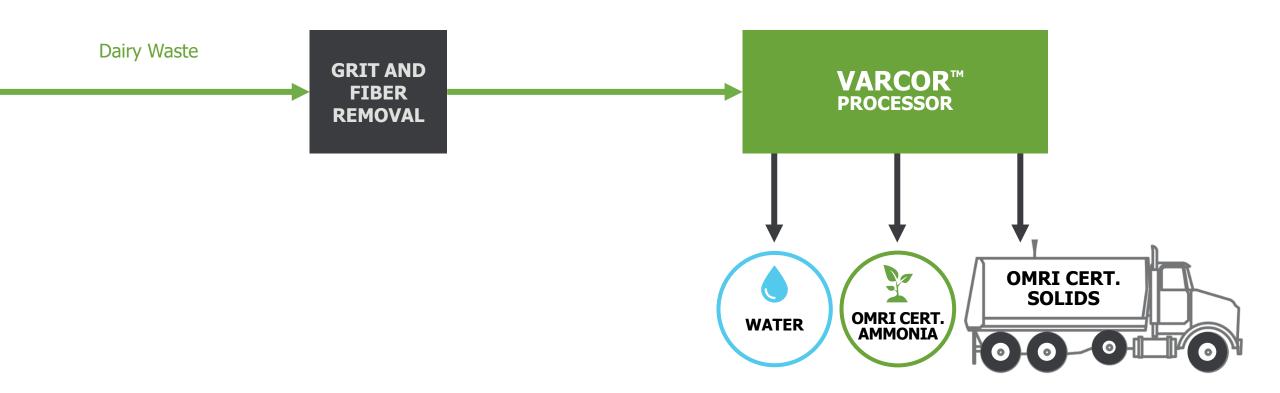
- AmmoniaFertilizer
- ✓ Ammonia Fuel
- ✓ Solids Fertilizer
- ✓ Solid Fuel
- ✓ Etc.

CONFIDENTIAL INFORMATION

DAIRY FACILITY WITH DIGESTER



DAIRY FACILITY W/O DIGESTER



Example Sites





4,000 Cow Dairy

Indiana

Operational Since 2020

~40,000,000 gallons per year of capacity

~10,000 sq-ft building





Major Rum Distillery
US Virgin Islands
Operational Since

2022 Available for

Available for additional pilot trials





Regional Septage / Biosolids Processing Facility

Seattle Washington

Currently Operational

~40,000,000 gallons per year of capacity

~10,000 sq-ft building

EPA 503 Class A EQ Biosolids Permit





20,000 Cow Dairy

Indiana

Operational Q1 of 2024

~200,000,000 gallons per year of capacity





12,000 Cow Dairy

Wisconsin

Operational Q4 of 2024

~140,000,000 gallons per year of capacity







