



# Los Angeles County Integrated Waste Management Task Force

April 15, 2021

Bernard C. Fenner, VP of Energy Services

Frank Lauro, Sr. Project Development Manager

- TNRE and TNRE Approach
- TNRE System Solution
- Environmental Benefits
- Siting & Capacity
- Questions & Discussion

# True North Renewable Energy

- We develop, build, own and operate organics processing facilities
- We produce organic rich compost and renewable energy, while reducing GHG emissions
- We are fully owned by True North Venture Partners (TNVP)
  - A venture fund of \$700MM by the Ahearn family, Walton family, Ted Turner, Cox Enterprises
  - TNVP invests in and builds businesses that help the world transition to a clean and sustainable future.



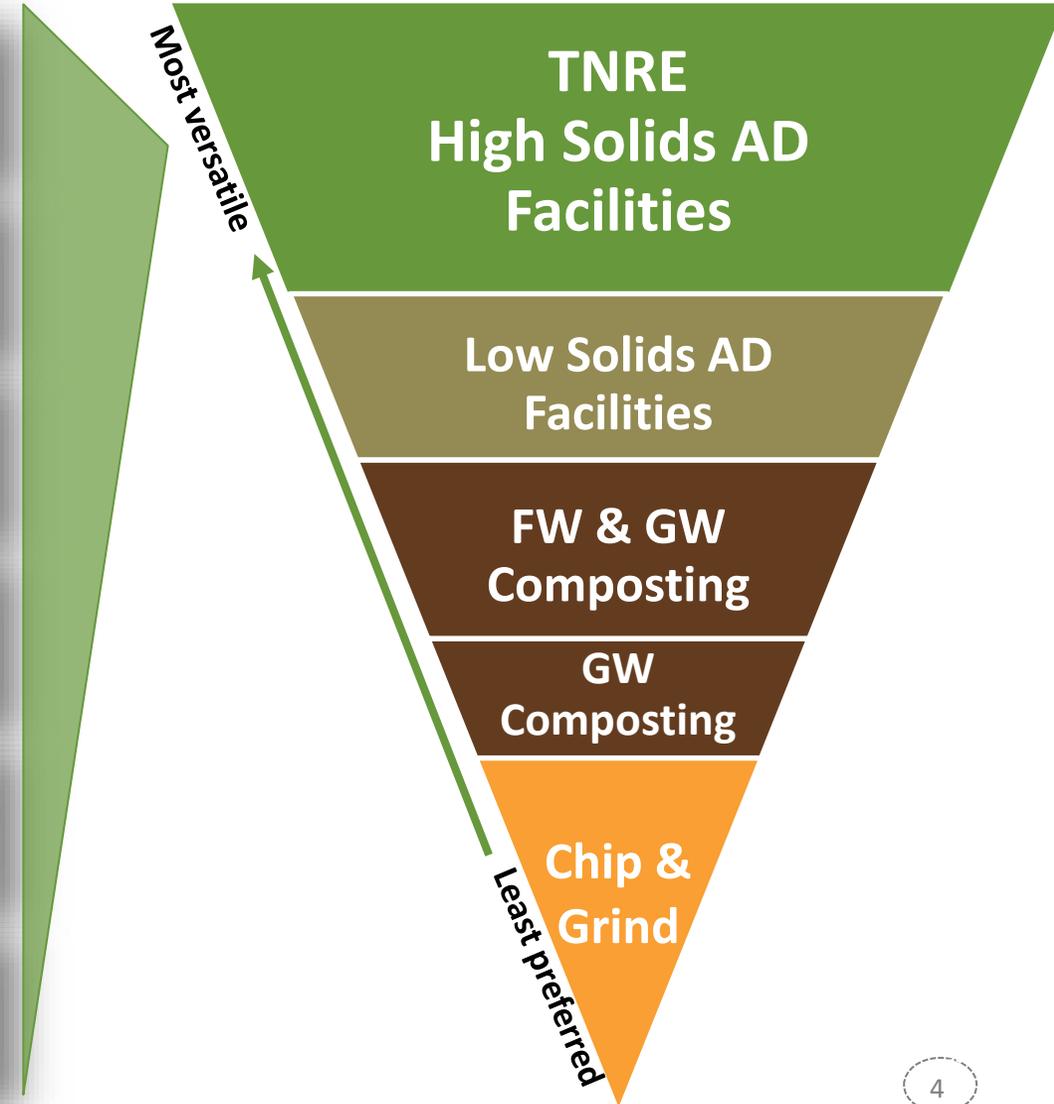
# The TNRE Approach

- We process mixed organics and convert to renewable energy and organic compost
- The scalable TNRE facilities will manage all streams of organics from residential, industrial, institutional and commercial sources
- We support CA in the implementation of SB1383 to divert 75% of organics from landfill



# TNRE High Diversion AD – a Holistic Solution for the future

- We cope with a wide range of organic feedstock to serve the market long-term
- All influencing factors on organic waste will change and adapt over the next +20 years
- Facilities are reliable, clean, free of odors, sustainable, future-proof and most versatile
- Our solutions cope with the change in feedstock mix

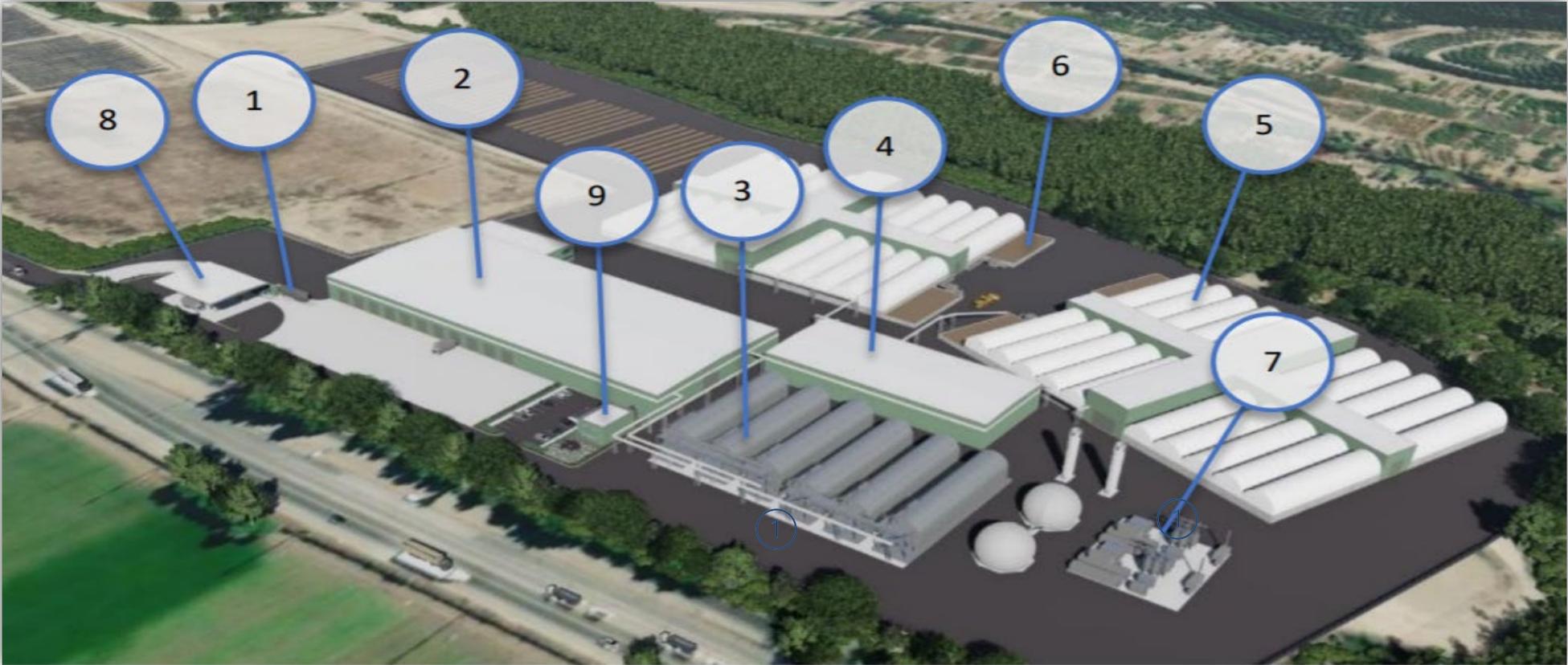


# Our System – Bundling Proven Technologies

- We rely on our global experience and build on proven technologies
- Contamination removal, fully enclosed, thermophilic High Solids AD, combined with in-vessel composting, best practice ventilation



# Our Solution – Modular and Scalable



# Building a Future-Proof Solution

- We build and operate safe and reliable solutions
- We build-to-scale, prepare for future volumes and changing habits



300,000 TPY - facility



600,000 TPY - facility

# Creating Environmental Benefits and Valuable Products



- Producing valuable RNG – 1,000,000 MMBtu/y\*



- Producing organic compost – 240,000 t/y\*



- Reducing pollutants – 160,000 MT of CO<sub>2</sub>e/y\*



- CI value of the facility in the range of **-54.8** to **-158 g CO<sub>2</sub>e/MJ\*\***

\*600,000 TPY facility

\*\*Dependent on food/green mix and energy generation (EcoEngineers)

# Producing a solid Soil Amendment Organic Compost

## We are committed to comply with

- The Organic Materials Review Institute (OMRI)
- US Composting Council’s Seal of Testing Assurance Program (STA)
- The Western Growers Association to ensure that our soil amendment organic compost is allowable under their Commodity Specific Food Safety Guidelines
- Registering as a fertilizing material with the Organic Input Material (OIM) Program under the CDFA State Organic Program (SOP) and USDA National Organic Program (NOP)

We will process the entirety of the organic resources - food scraps, greens, soiled paper and yard trimmings. The system is an anaerobic thermophilic high solids digestion process effectively eliminating pathogens.

- Compost helps to increase the organic matter in the soil, water holding capacity and improves soil health
- Applying compost is a method of sequestering carbon
- Our compost will enable a circular economy keeping nutrients in the loop, helping to reduce pesticide usage, and synthetic fertilizers



# San Bernardino County

- Property: 80 acres, PSA executed
- Capacity: Up to 600,000 TPY
- Timing: Expected breaking ground in 2022
- Status
  - Local team in place
  - Due diligence in progress
  - Pre-application meeting



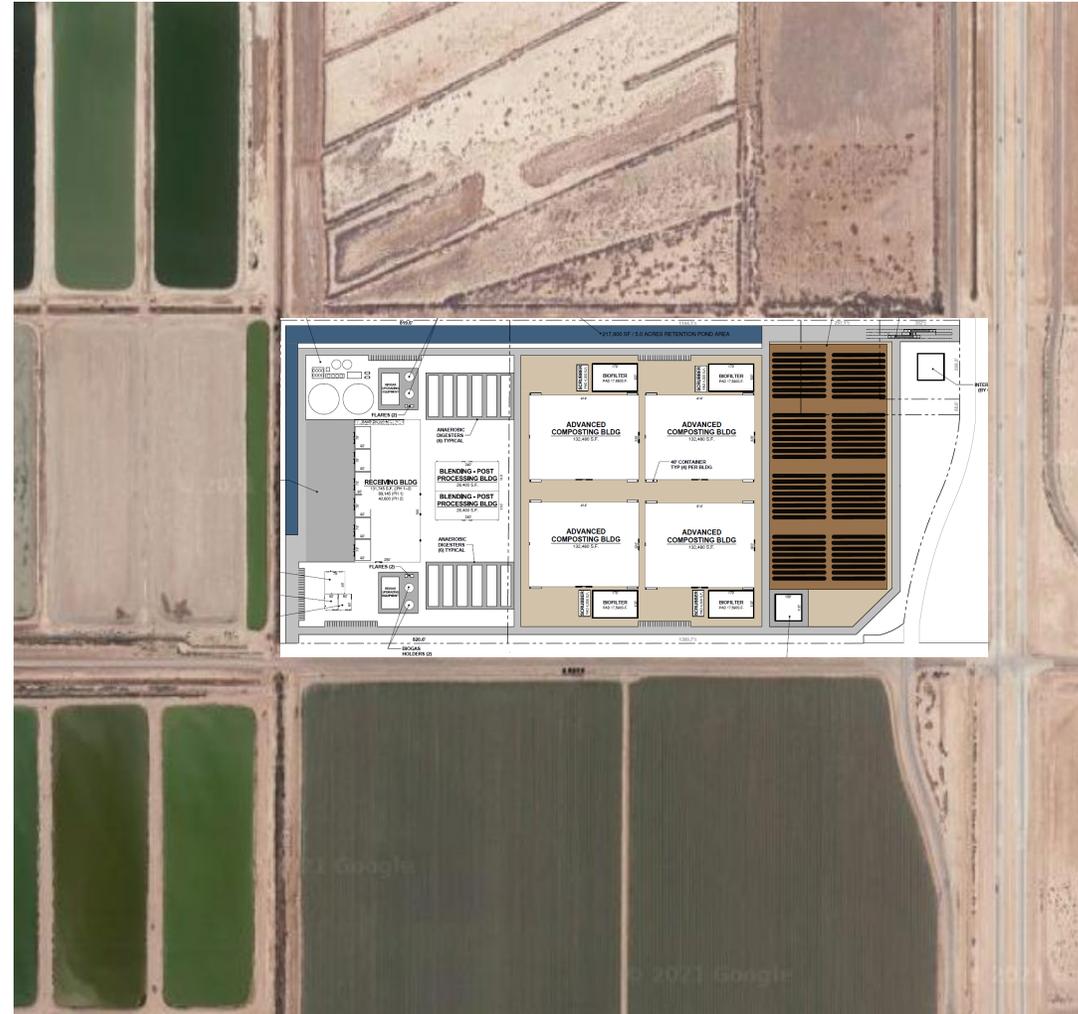
# Antelope Valley

- Property: 100 acres, PSA in progress
- Capacity: Up to 600,000 TPY
- Timing: Expected breaking ground in 2022/2023
- Status
  - Local team in evaluation
  - Due diligence in progress



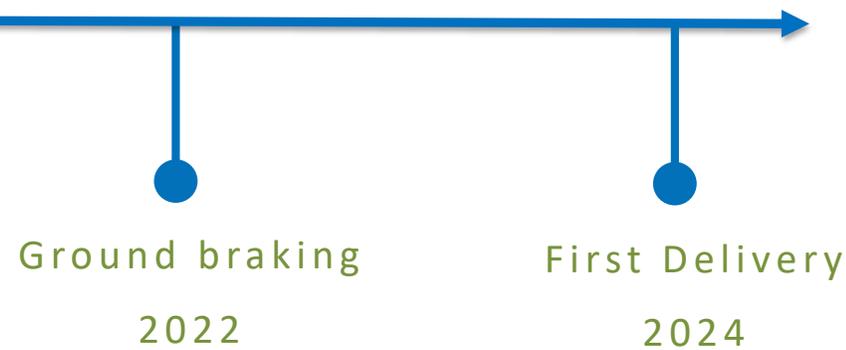
# Imperial County

- Property: 73 acres, PSA executed
- Capacity: Up to 600,000 TPY
- Timing: Expected breaking ground in 2022
- Status
  - Local team in place
  - Due diligence in progress
  - Pre-application meeting completed
  - Permitting started



# Benefits & Partnership

- Securing capacity for the long-term, and for growing volumes
- Safely processing all types of organics resources in an environmentally sustainable process
- Partnering, developing and defining feedstock commitments
- Qualifying TNRE as a high diversion organic waste processing facility





MARK PESTRELLA, Director

**COUNTY OF LOS ANGELES**  
**DEPARTMENT OF PUBLIC WORKS**  
*"To Enrich Lives Through Effective and Caring Service"*

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 P.O. BOX 1460  
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IN REPLY PLEASE  
 REFER TO FILE: EP-4

March 3, 2021

Mr. Bernard C. Fenner  
 Vice President of Business Development  
 True North Renewable Energy, LLC  
 2390 East Camelback Road, Suite 203  
 Phoenix, AZ 85016-3450

Dear Mr. Fenner:

**SUPPORT LETTER FOR TRUE NORTH RENEWABLE ENERGY, LLC  
 HIGH SOLIDS ANAEROBIC DIGESTION SOLUTION WITH  
 INCIDENTAL ENCLOSED COMPOSTING SYSTEM**

The County of Los Angeles has been a consistent supporter of the development of alternative technologies that convert solid waste into renewable resources. Development of in-County, conversion technology facilities and advancement of renewable energy are key elements in the County's strategy for assuring long-term disposal capacity to meet the needs of over 10 million residents and thousands of businesses Countywide.

Los Angeles County Public Works is pleased to have had the opportunity to meet with the representatives from True North Renewable Energy, LLC to hear about their efforts in developing facilities using high solids anaerobic digestion and enclosed composting. The County supports the development of conversion technologies, such as anaerobic digestion, to create renewable energy from organic waste. The True North Renewable Energy, LLC approach reduces greenhouse gas emissions by using organic waste as a valuable resource to create renewable energy and nutrient-rich soil amendments.

The County's Roadmap to a Sustainable Waste Management Future and OurCounty Sustainability Plan include goals for reducing greenhouse gas emissions and diverting solid waste from landfill disposal. The True North Renewable Energy, LLC technology is in alignment with these goals and will also help the County comply with the greenhouse gas emissions reduction laws and regulations. Therefore, Public Works supports the development and deployment of facilities within the County that utilize technologies, such as those proposed by True North Renewable Energy, LLC.

If you have any questions, please contact me or your staff may contact Mr. Christopher Sheppard at (626) 458-3592 or [cshppard@pw.lacounty.gov](mailto:cshppard@pw.lacounty.gov), Monday through Thursday 7 a.m. to 5:30 p.m.

Very truly yours,

MARK PESTRELLA  
 Director of Public Works

  
 COBY J. SKYE  
 Assistant Deputy Director  
 Environmental Programs Division

# Questions, Answers, Discussion

[www.tnrenewableenergy.com](http://www.tnrenewableenergy.com)



**TNRE** 