



# MOZART

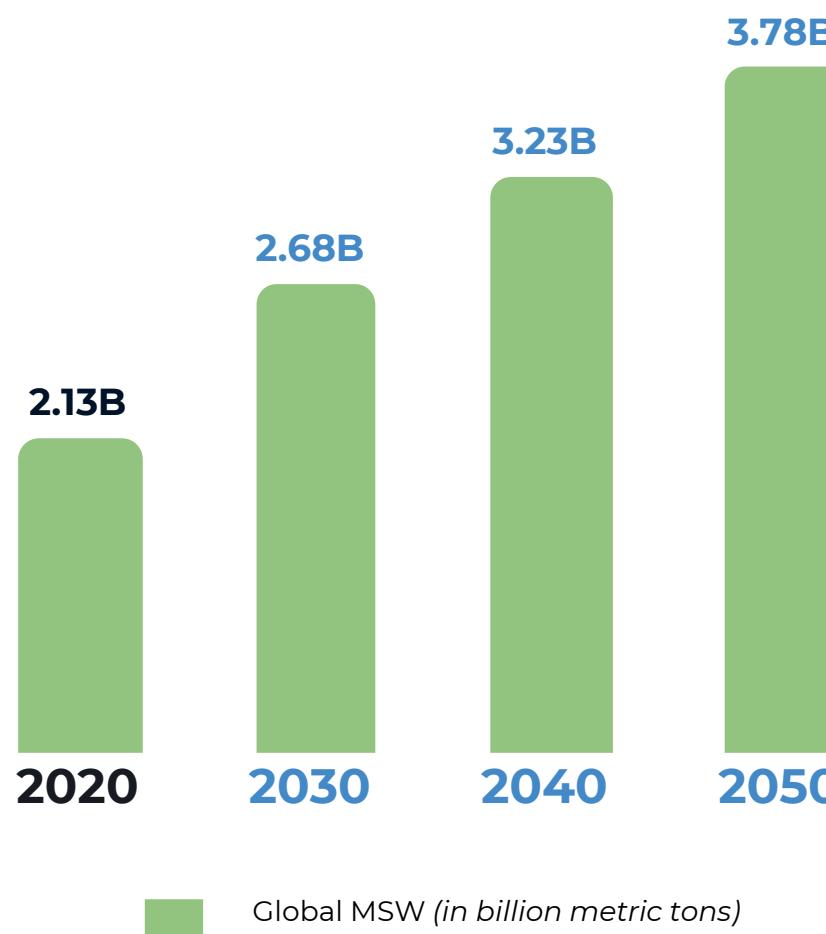
Transforming Waste  
into Clean Energy



# A Global Waste Crisis with a Multi-Trillion Dollar Energy Gap

Every year, the world generates over **2.1B tons** of municipal waste, set to **increase** to **3.8B tons** by 2050. Yet less than **19%** is recycled or composted, while the rest is discarded in landfills or burned

## Projections of annual global MSW



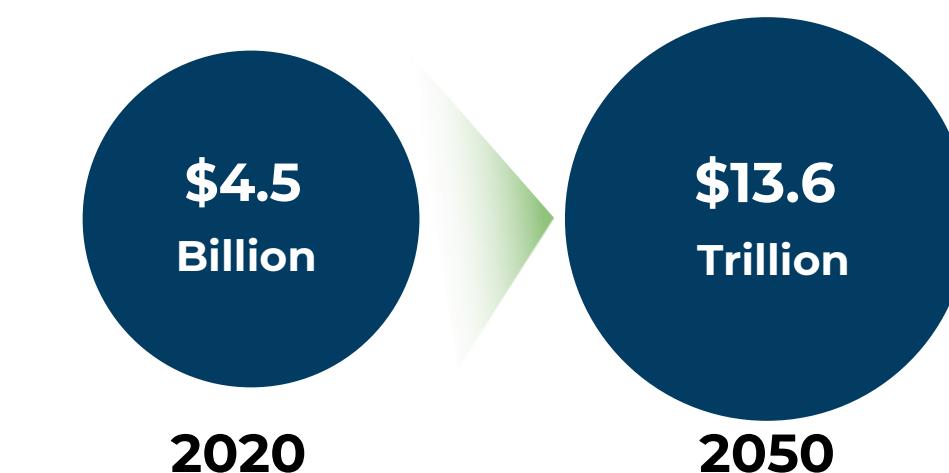
**North America**  
**300M+ Tons**  
**Annually**

**USA**  
**12% of Global**  
**MSW**

**85% of MSW**  
**can be converted**  
**to clean energy**

## The **\$13.6T** Clean Energy Opportunity

A **300x** increase in clean energy demand is projected by 2050: waste-derived syngas will power a global market growing at a **CAGR of**  
**~28.6%**



## Global Clean Energy Demand



# Mozart Devco Overview

Developer of waste-to-energy infrastructure projects

About Us			Key Drivers						
2022 Founded		120+ years engineering and energy	<b>Specialization on MSW to energy projects</b>	 Rising demand for clean energy	 Distributed generation	 Cost savings for landfill operators	 Landfill diversion	 Emission reduction	 Carbon footprint

## WtE Project Development

Waste-to-syngas plants with a flexible fuel production line to match the off-take demand



Waste-to-Syngas

### Syngas Flex-fuel Profile

- Hydrogen
- Methanol
- SAF
- RNG
- Ammonia
- Other

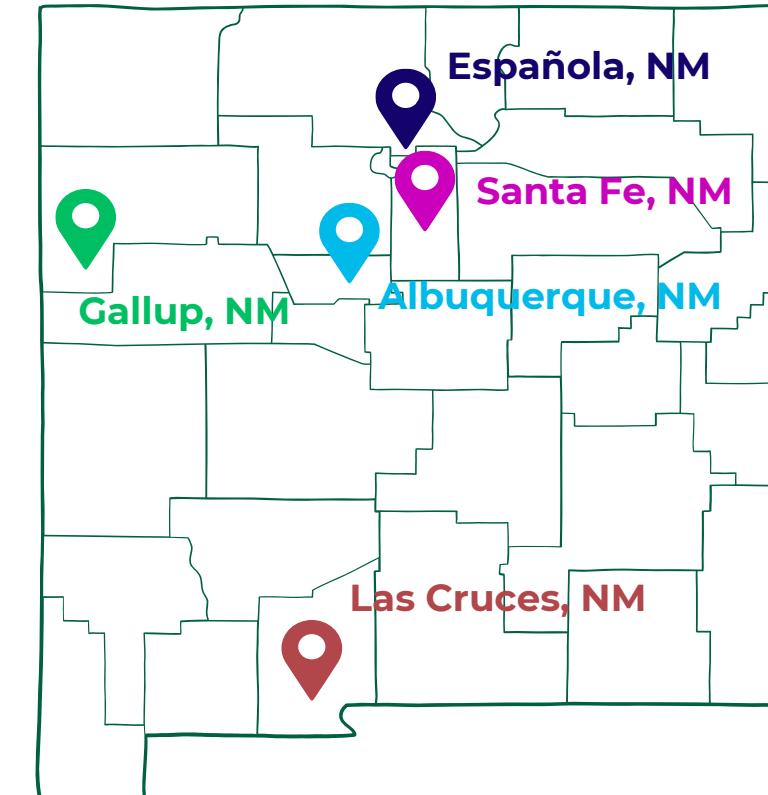


CCUS



Power

## Project Pipeline



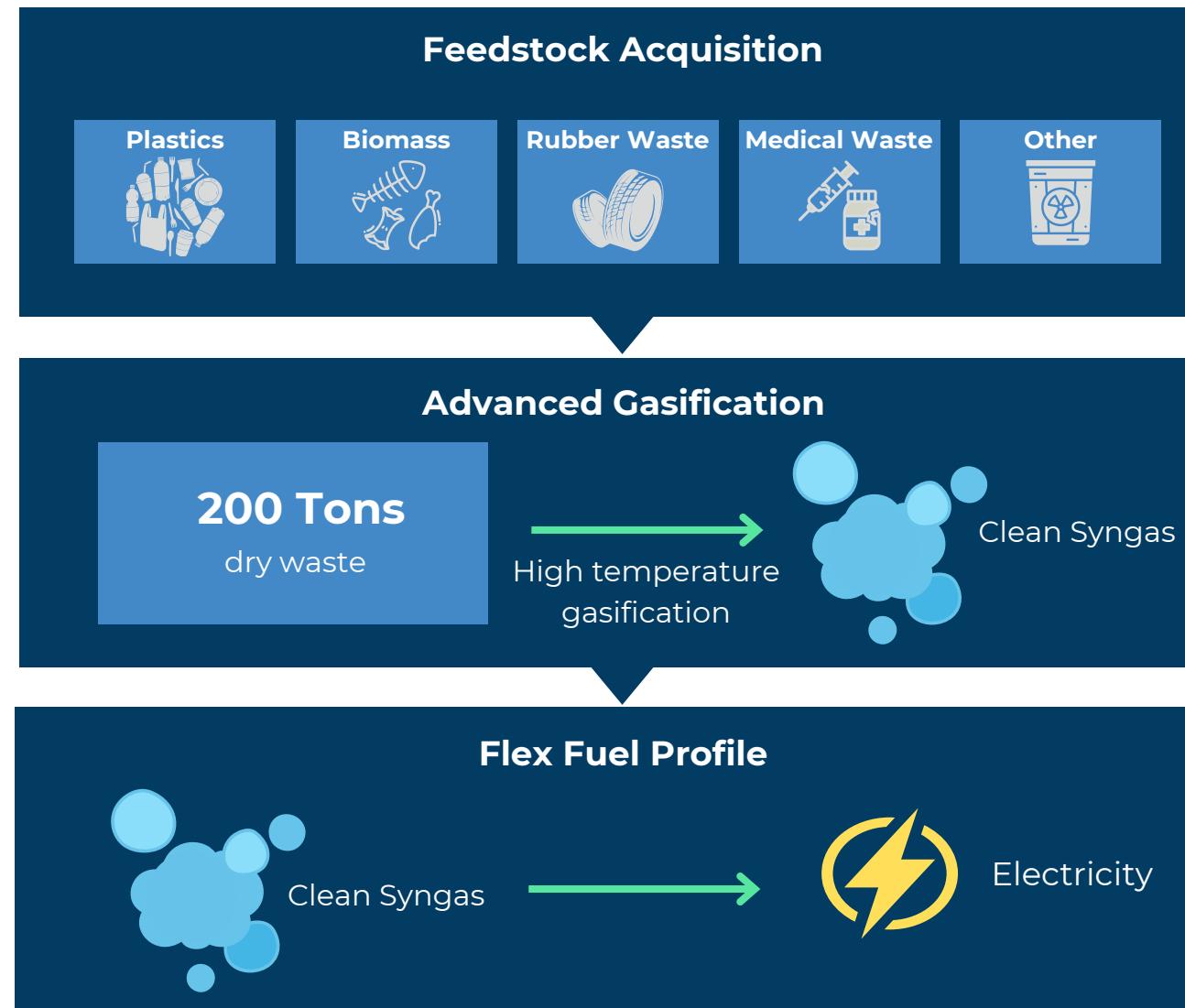
## Why New Mexico ?

- Municipal solid waste challenge - landfills
- Growing demand for power
  - AI Data Centers, DOE, LANL, Sandia
  - New Mexico Net Zero Act – clean air, zero emissions at tailpipe
- State and local government supportive of clean power
- No transformation plants in state



# Mozart's Solution for Plant 1

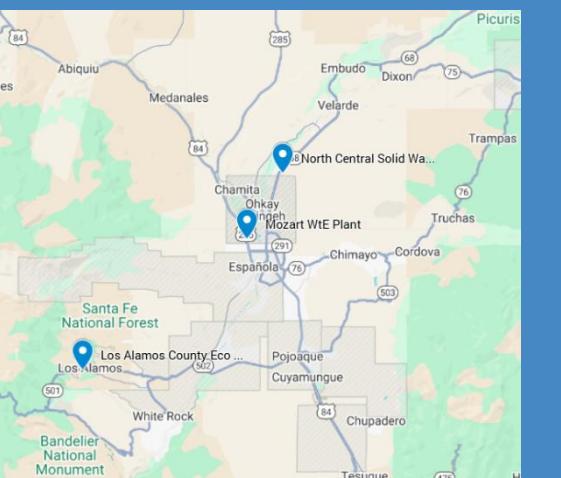
Transforming Waste into Clean, Profitable Energy





# Mozart's Plant 1

## Ohkay Owingeh Española, NM



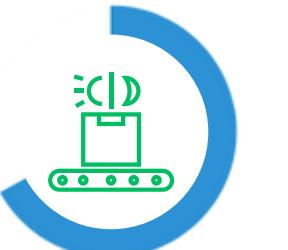
Transforming MSW into clean syngas to generate power at our state-of-the-art waste-to-energy facility



**Project Type:** MSW to Syngas – Flex Fuel



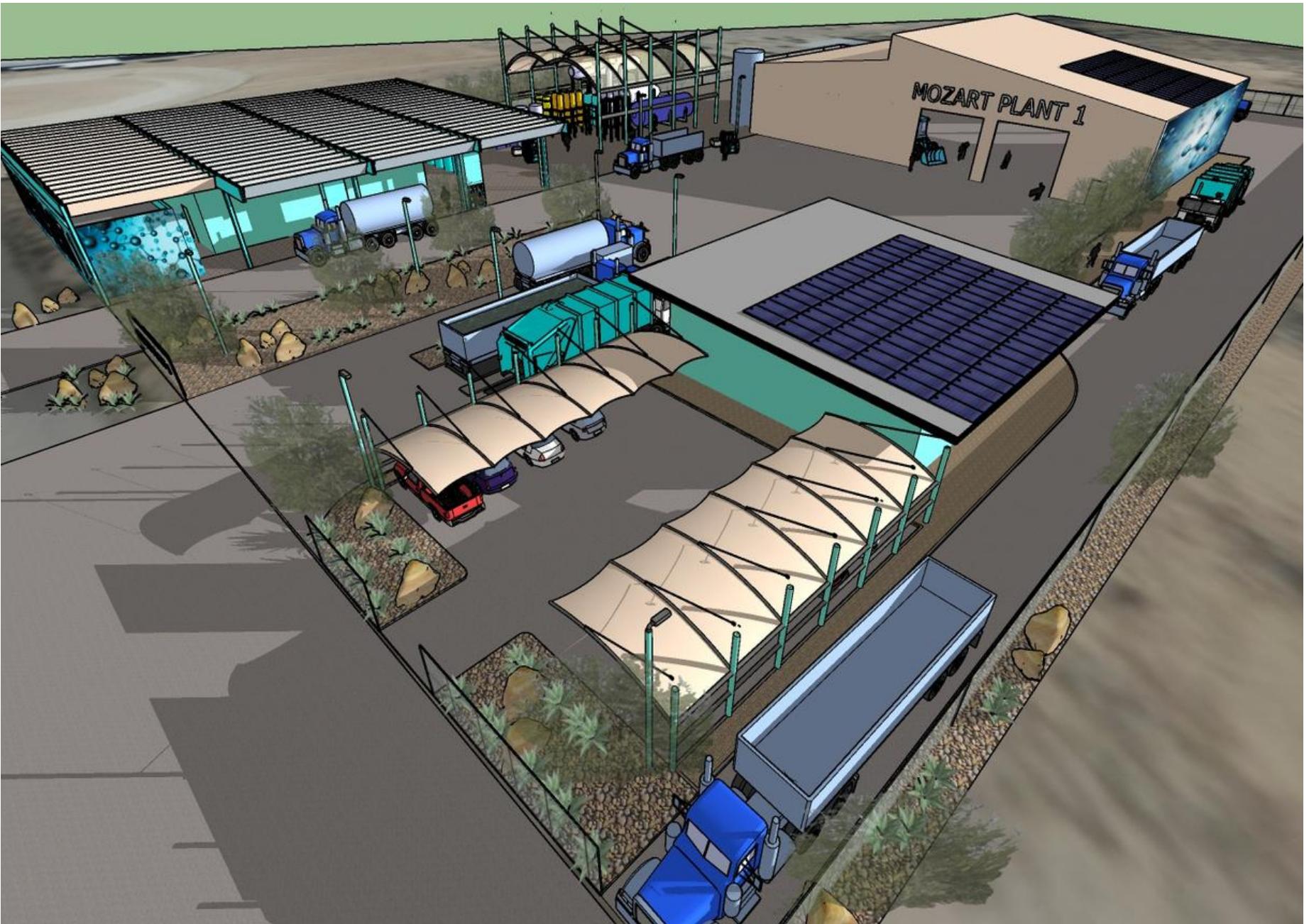
**Location:** 15 acres on Ohkay Owingeh Tribal Lands, Española, NM



**Capacity:** 200 dry tons/day (MSW, plastics, biomass, rubber, medical waste)



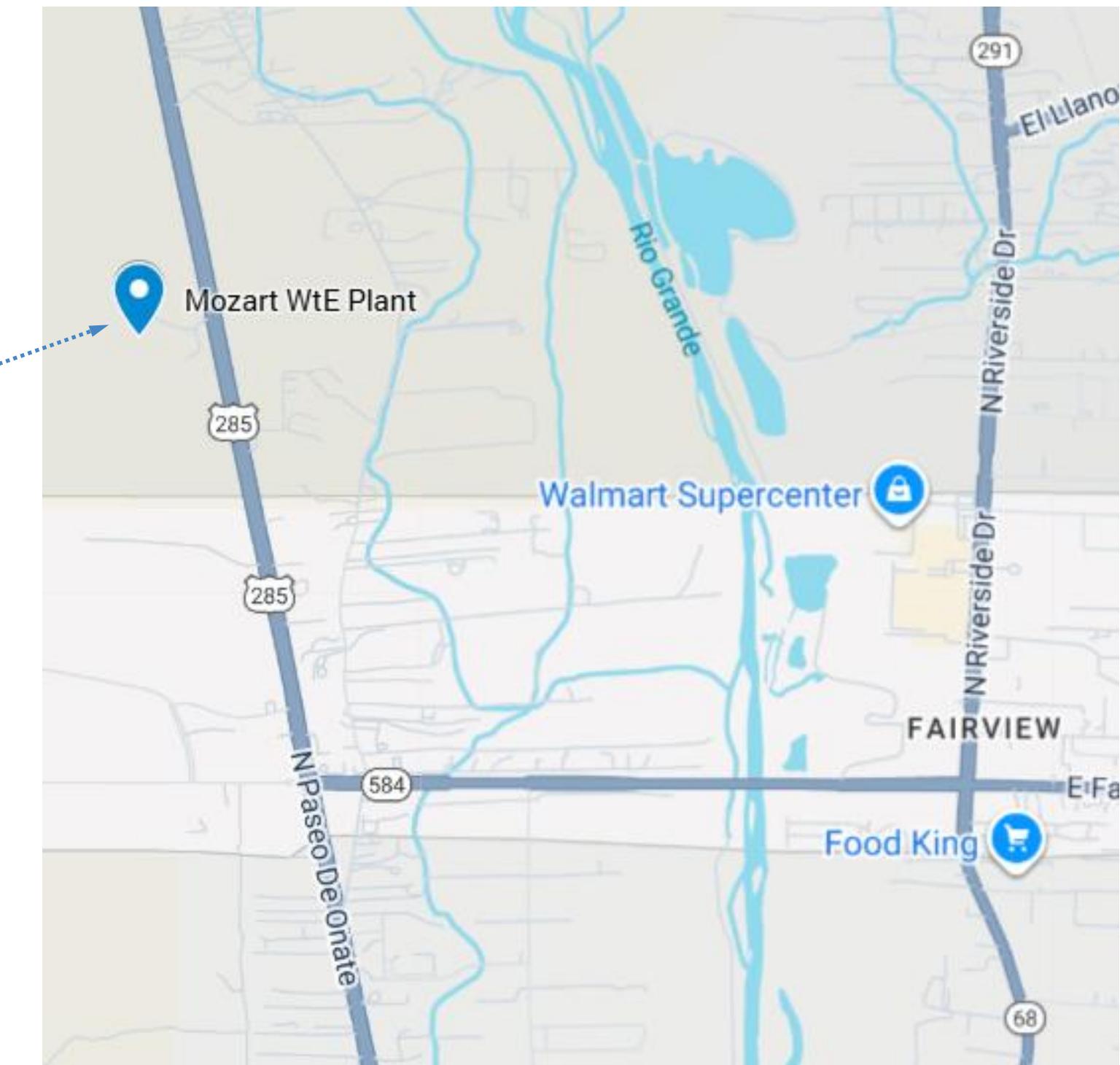
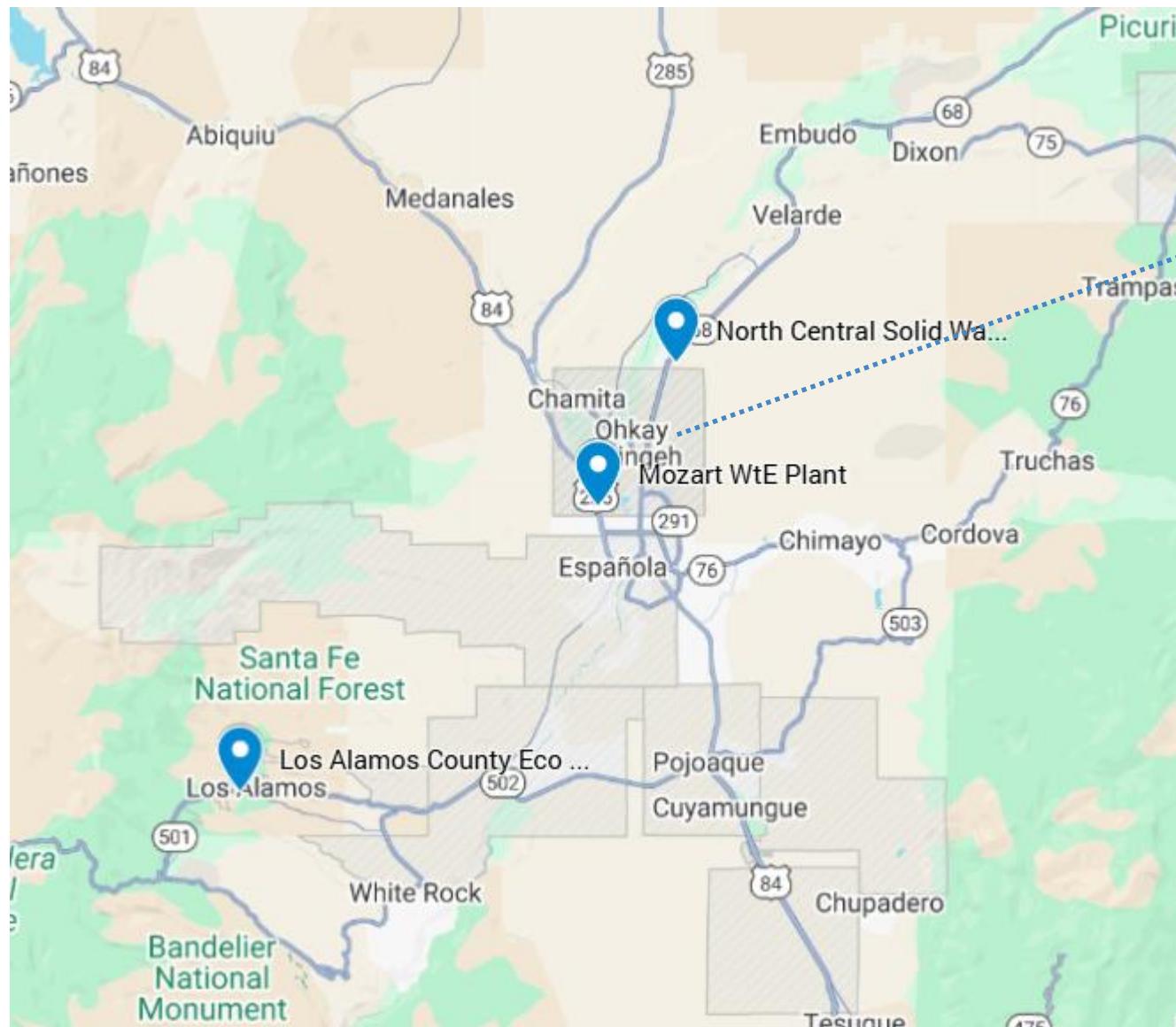
**Output:** 10 MW of power to grid, LCO2, Graphene





# Mozart WtE Plant Location

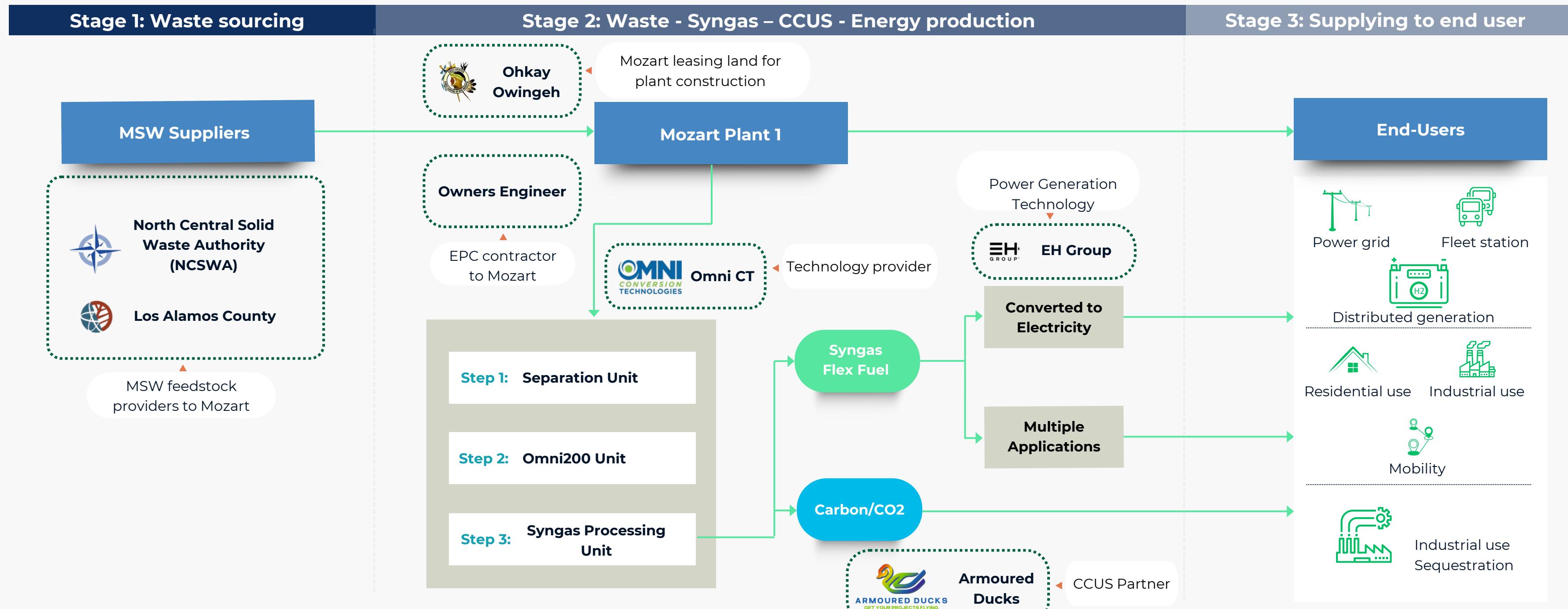
Ohkay Owingeh  
Espanola, New Mexico





# Mozart's Ecosystem Plant 1

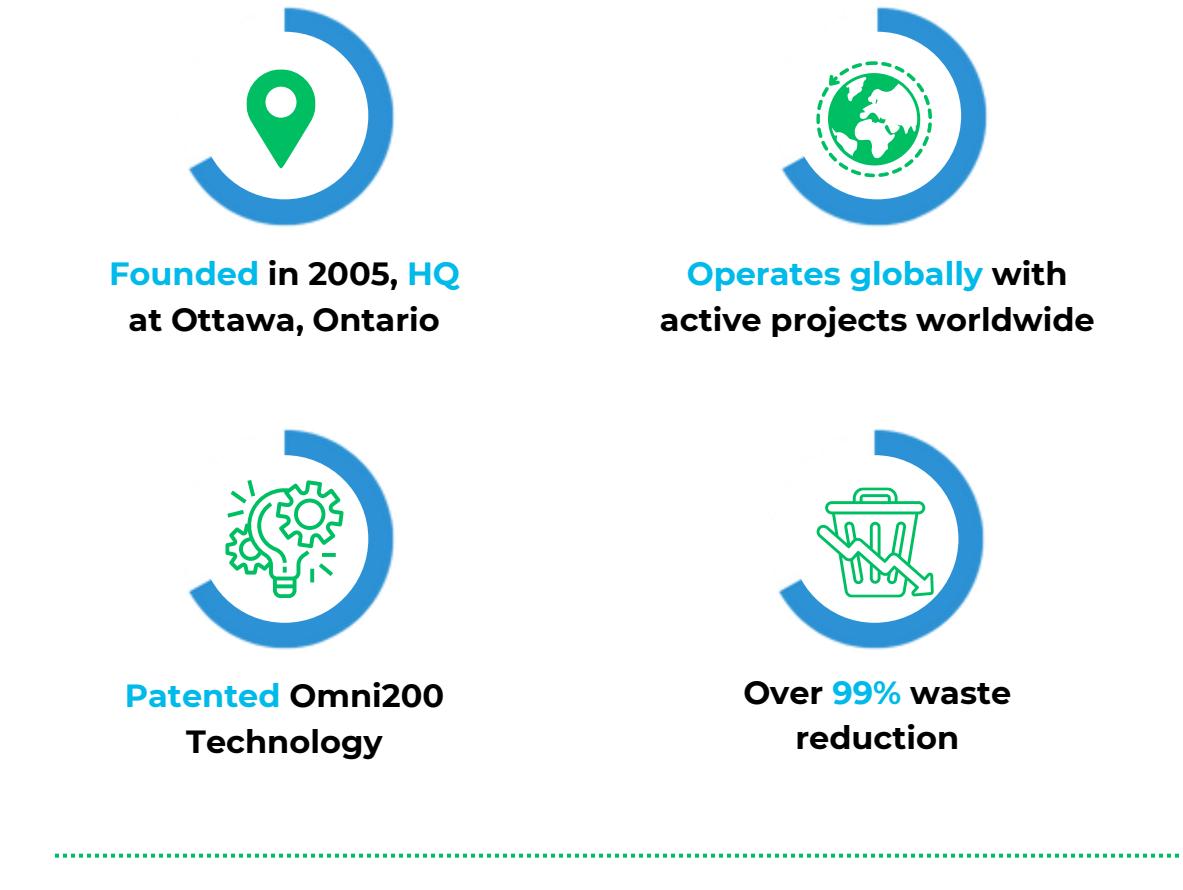
Mozart harnesses a robust industry network and strategic alliances to deliver cutting-edge infrastructure for a sustainable solution





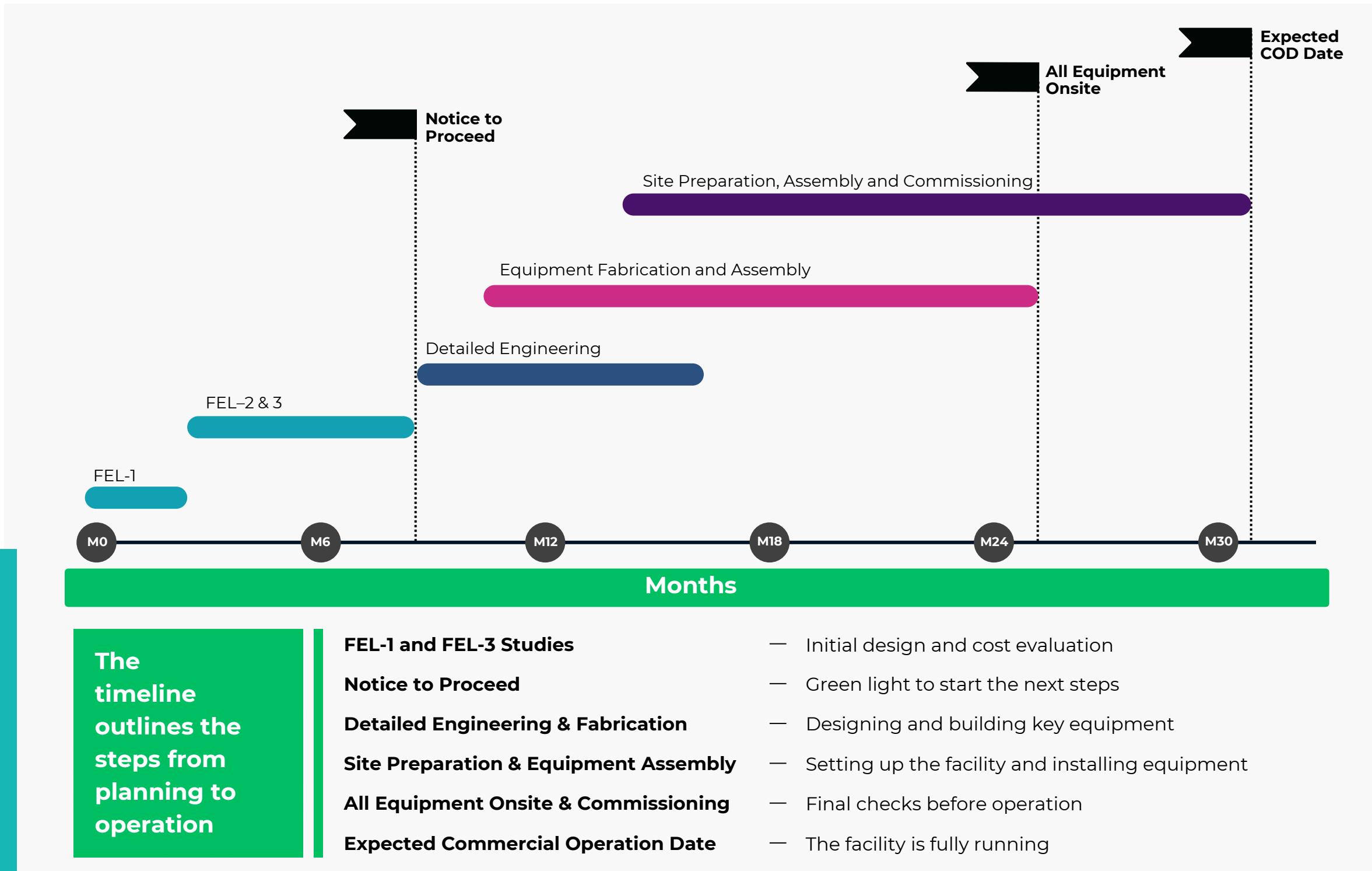
# OMNI CT Profile and Plant Build Timeline

OMNI specializes in waste-to-fuel technology, transforming municipal solid waste into clean energy, with zero harmful emissions



## The partnership with Mozart:

- Deploying **Omni200 units** and **leading key engineering work** for Mozart's initiative at Espanola, NM
- Supporting **FEL-1 and FEL-3 design, cost estimation, workflow integration**, and **vendor selection**
- Providing **engineering expertise** and **ensuring seamless execution**





# Mozart's Carbon Utilization Solutions

Waste-to-syngas plants with a flexible fuel production line to match the off-take demand

Product	Technology / Process Type	Off-takers / End-User Industries	Market Size
Calcium Carbonate	Mineralization		Construction materials, concrete, cement \$1.11B (2023) → \$3.95B (2033)
Nano Calcium Carbonate	Nanoparticle Synthesis		Plastics, rubber, paints, coatings, paper \$8.42B (2022) → \$17.66B (2030)
Graphene	Electrochemical Conversion		AI, electronics, composites, energy storage, automotive, aerospace \$432.7M (2023) → \$5.19B (2032)
Synthetic Fuels	CO <sub>2</sub> Hydrogenation		Transportation, aviation, energy sectors \$8.6B (2024) → \$34.7 B (2033)
Methanol	Catalytic Hydrogenation		Chemicals, fuels, solvents \$40.51B (2024) → \$68.56B (2035)



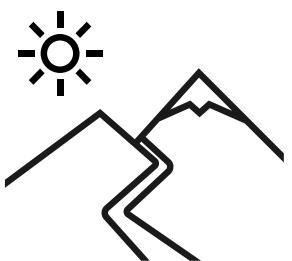
# Benefits To Participating Entities

## ECONOMIC



Direct and indirect cost abatement  
Capital and labor resources  
Job creation at plant and aux services

## ENVIRONMENTAL



Landfill waste diversion  
Air  
Water / Aquifer

## SPECIFIC TO LOS ALAMOS COUNTY



The primary value to Los Alamos County is the cost abatement of taking the municipal solid waste to the plant as opposed to the landfill

Los Alamos County benefits through the collective effort of clean power production from waste-to-energy

The plant will serve and benefit the communities of North Central New Mexico and is in alignment with the state's priority of economic diversity



# The Right Mix of Experience (1/2)

## Development Team



**Mr. Mark Rutledge**  
**Co-Founder & Principal**

- 30+ years in semiconductor space
- Co-Founder of Summit Microelectronics, Inc.
- Managed Summit business unit post-acquisition by Qualcomm, growing the nascent business from \$68M to \$382M



**Mr. Michael Dwinnell**  
**Co-Founder & Principal**

- 40+ years in energy space
- Co-founder of CENAQ (SPAC, NASDAQ)
- Advisory board member on multiple energy and capital ventures



**Mr. Kash Arfa**  
**Project Operations**

- 34+ years in engineering and project management for complex energy projects
- Co-founder of The Automation Group (TAG)
- Former VP Global Projects and Oil & Gas Operations at Emerson



**Mr. Rocky Hogue**  
**Commercial Operations**

- 40+ years in financial and contract management in engineering
- Leadership roles at Koch and Worley, including Sr. Commercial Director, Koch Project Solutions
- Former Global Group Director & Group Controller at Worley/WorleyParsons



**Ms. Carrie Brennan**  
**Administration**

- 10+ years marketing & communications leader with expertise in brand strategy, PR, and content marketing
- Skilled in integrated campaigns, media kits, digital content, and community engagement



**Mr. Steven Stringer**  
**Government Affairs**

- 30+ years in technology and program management
- Leadership at Los Alamos National Laboratory - Cray Research (Former SAM)
- Former Technology Transfer Program Manager, Los Alamos National Laboratory
- Former Project Manager for schedule, cost, design, construction, and deployment of the world's most powerful scientific visualization facility at LANL



# The Right Mix of Experience (2/2)

## Advisory Board



**Dr. Alex Kulpeccz, Ph.D.**  
**CEO of Alexander Energy Limited**

- Former Executive Committee Member at Royal Dutch Shell
- Former Fund Advisor to Carlyle/Riverstone, ITI Energy, Silver Point Capital, and McIntyre Partners



**Mr. Carl Ellett**  
**Sr. Economist for PBF Energy**

- Former Manager at ExxonMobil, Torrance – oversaw 135 BCFPD hydrogen production & hydro processing
- Expert in meeting California's stringent air quality standards



**Mr. Michael Mayell, P.E.**  
**President of Sydson Energy Inc.**

- Former Co-Founder, President & CFO of CENAQ (SPAC, NASDAQ)
- Former Co-Founder & President of The Meridian Resource Corp. (NYSE)
- Former VP, Kirby Exploration; Engineer at Shell Oil



**Mr. Peter Vermette**  
**Managing Partner & Founder Vinalhaven Capital**

- Former Managing Director at Goldman Sachs with 25+ years in private equity
- Global Head of Debt Capital Markets; expertise in renewables, utilities, waste-to-energy, and infrastructure



**Dr. Thorstein Selvik, Ph.D.**  
**Investment Banking and Finance**

- Held leadership roles in Goldman Sachs, ING, and Artesia Capital
- Expert in finance, economic analysis, and strategic consulting
- Renowned expert in trans-Atlantic relations and North America

## CO2 Management Team



**Dr. Milana Ayzenberg, Ph.D.**  
**CEO of Armoured Ducks AS**

- Former Chief Technology Officer at Caox AS and CaptiCo2 AS
- Former Geophysical Researcher and Project Manager at Equinor
- Expert in CO2 management and oil and gas reservoir optimization



**Mr. Oddvar Spjeld**  
**COO of Armoured Ducks AS**

- Former Chief Product Officer at Caox AS and former CEO of CaptiCo2 AS
- Former Project Manager and Mechanical Engineer at Equinor and Aker Solutions
- Expert in CO2 management and oil and gas modification projects