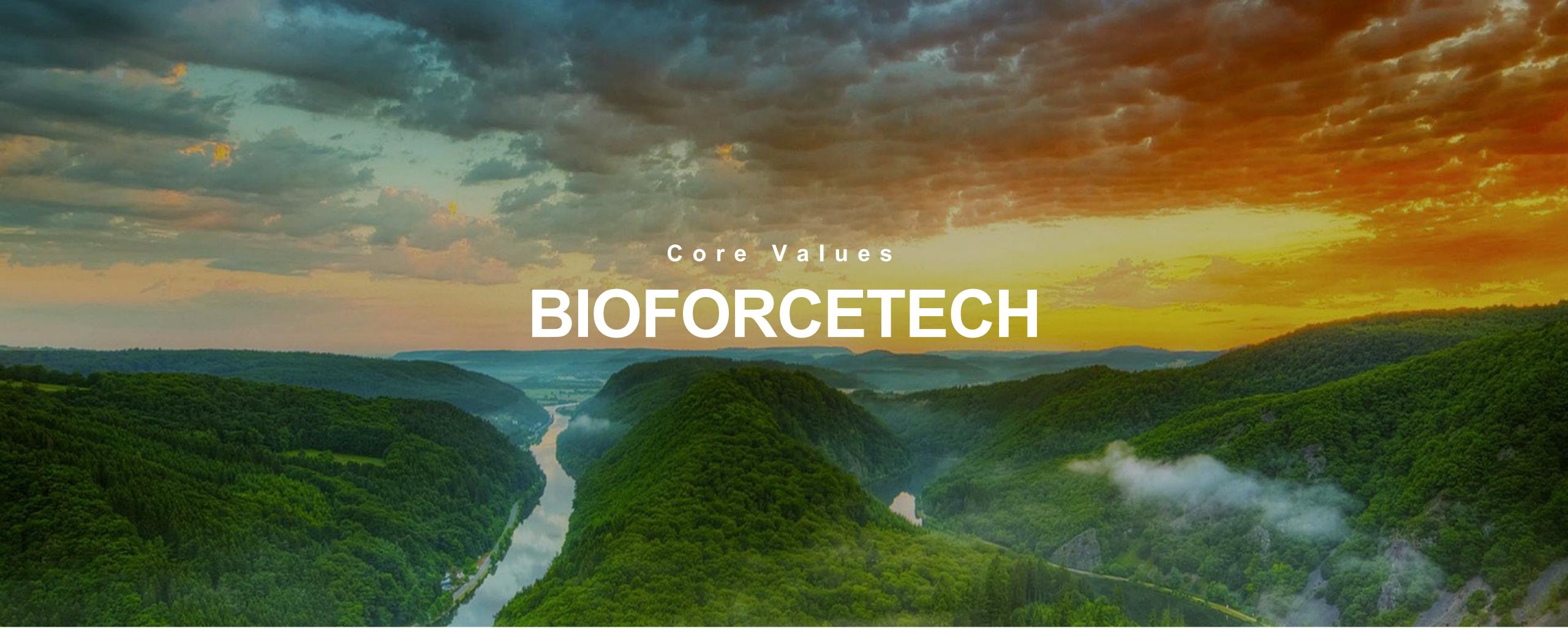
Bioforcetech Nature is Awesome

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Affordable waste management system



Valuable products from organic waste



Protecting nature and human health



Self sustained and green process

FROM 1954

OUR HISTORY

1954



1994



2012

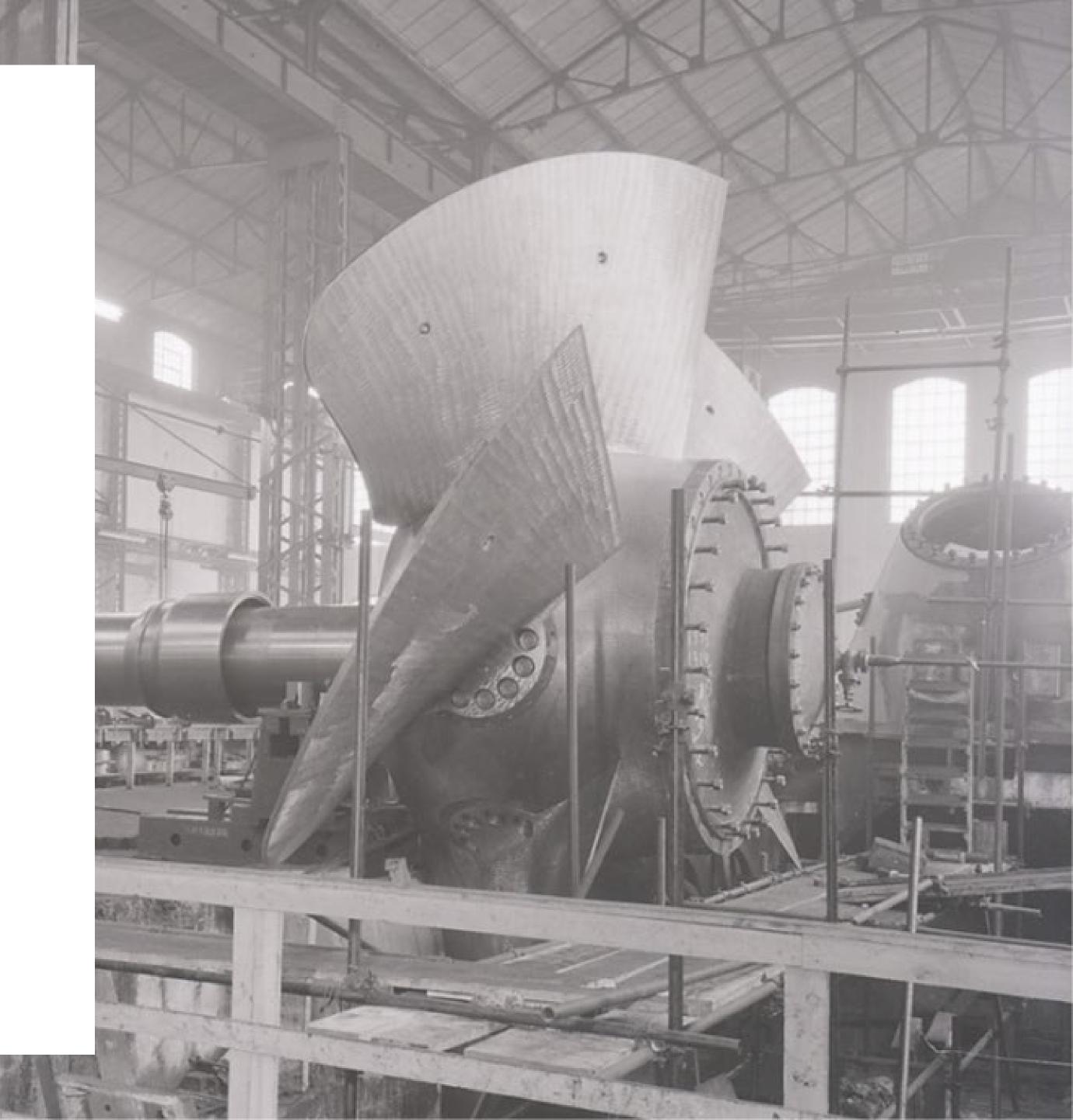


2016

PYREG

2020

Waste Management Organics Investment



TIMELINE

BFT HISTORY







BF	T Founded	Pyreg Partnership		Second US	Installation	US Pyrolysis Permit	WM Investmen	t
	Pilots at SVCW,	Full Scale Installation SVCW	Starting Operations at SVCW		First Italian Installation	35+ Referer Worldwide		New SSF Headquarters
▗ ᡶ	:	<u>: :</u>				<u> </u>		_ _
2013	2016	2017	2018		2019		2020	

THE BFT SYSTEM

THE SYSTEM

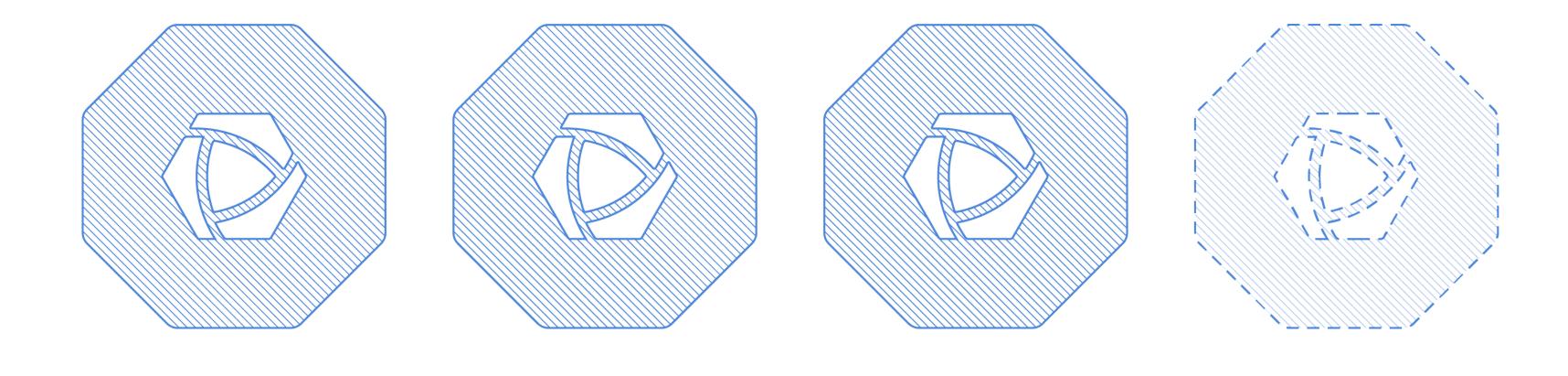


- Single or Multiple Feedstocks
- 90% Volume Reduction
- Biochar Production Added Value Product

- Digested or Undigested Biosolids
- Renewable Energy Production Net Zero Energy
- CECs Destruction
- CO2 Sequestration

BFT SYSTEM

SCALABILITY



1,000 wet tons/year 15K Population

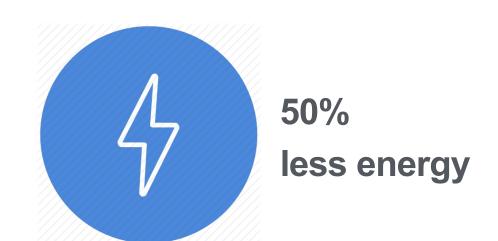
80% Of US WWTP

70,000 wet tons/year 1M Population



THE BIODRYER

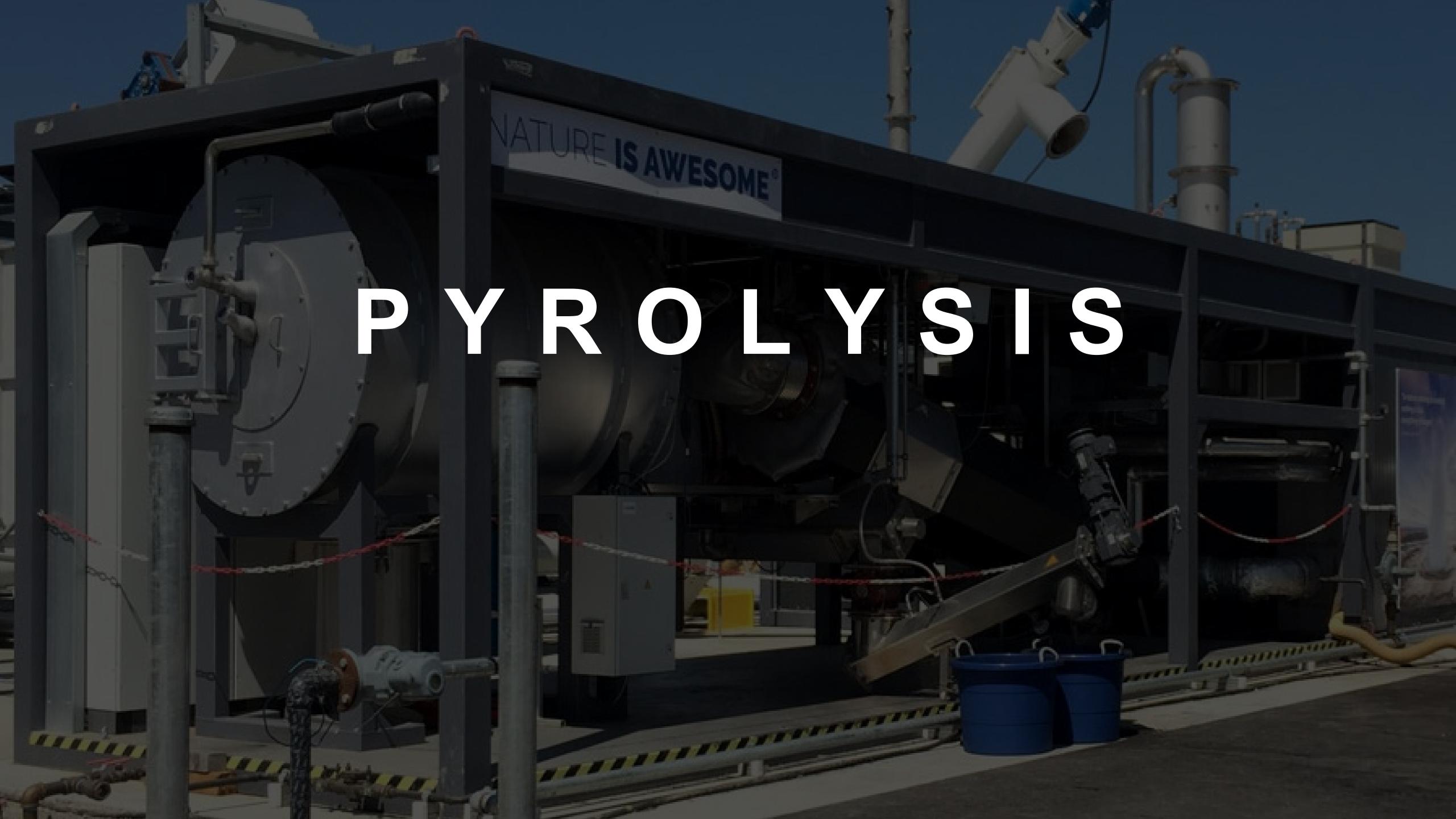








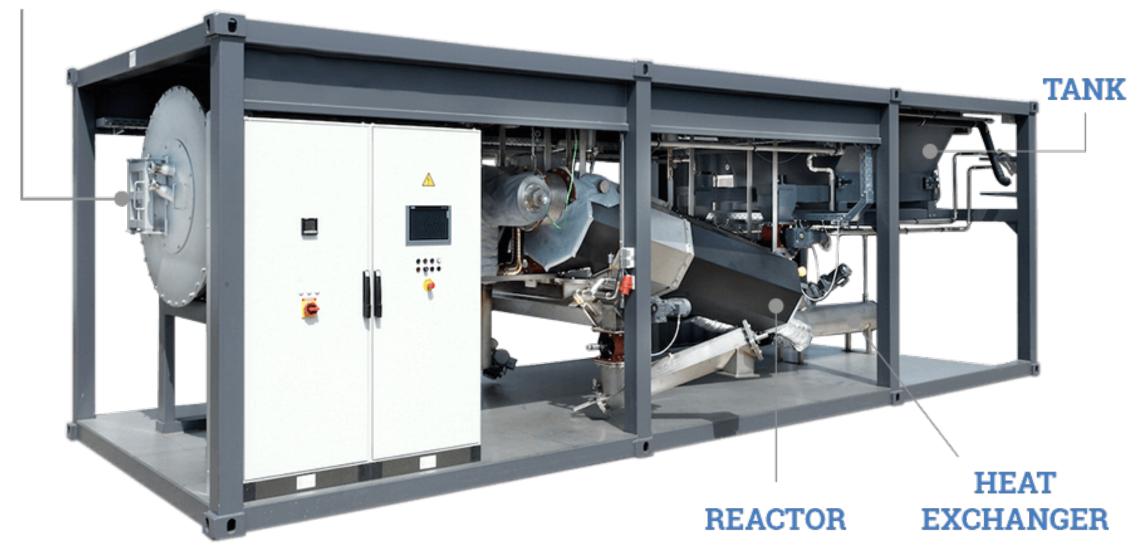




STEP 2

THE P-SERIES PYROLYSIS

BURNER WITHOUT FLAME





EPA approved as a NON-Incineration thermal process



Permitted to operate in the toughest Air district in the USA

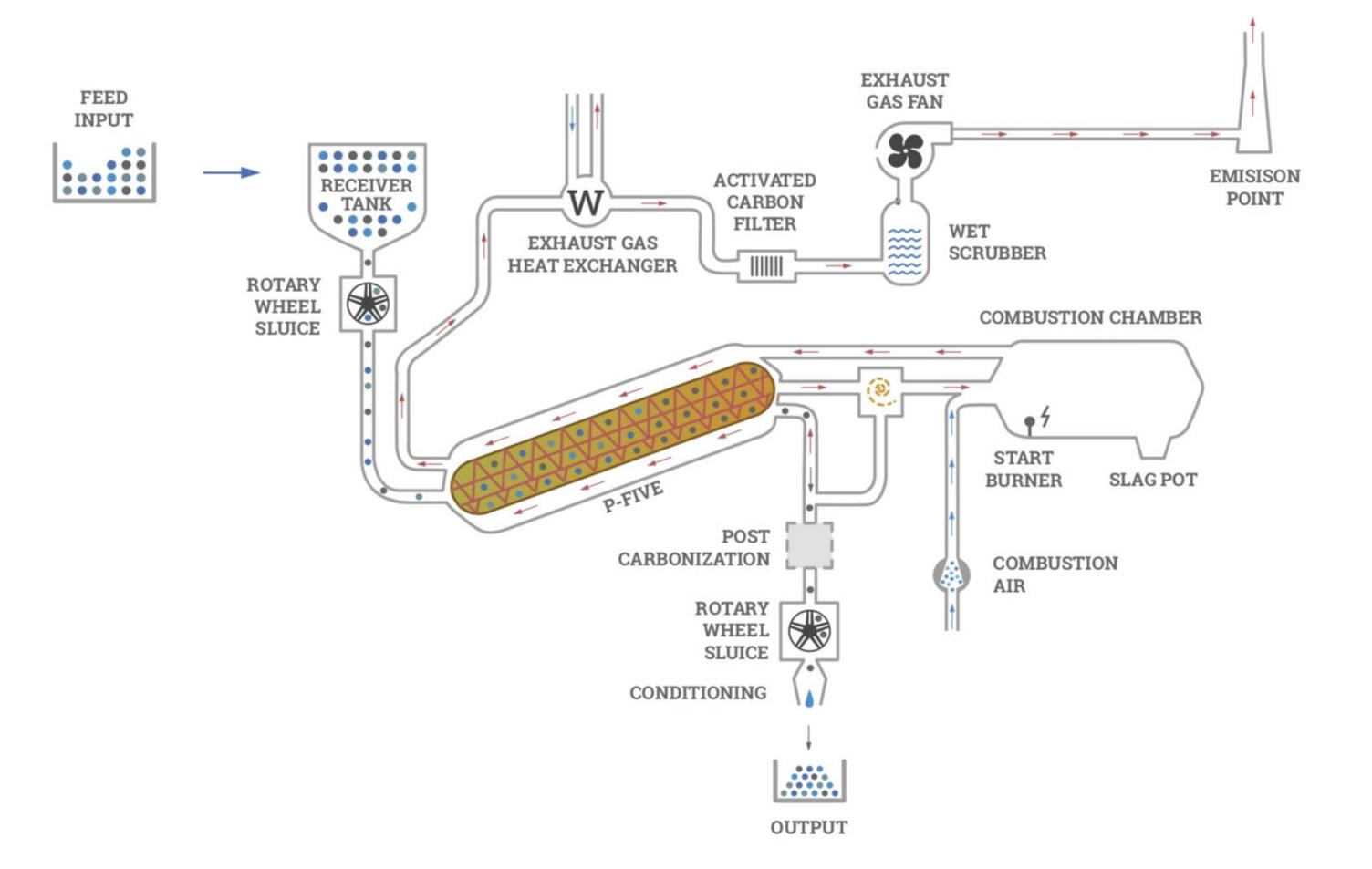


Approving technology as a "landfill diversion method"

THE BFT PYROLYSIS UNIQUE AND PROPRIETARY ADVANTAGES

STEP 2

THE P-SERIES PYROLYSIS





Self-Sustained

No external energy is used to run pyrolysis



Patented Flameless Oxidizer

No flame is formed in the oxidizer = clean emissions!



Permitted in the Bay Area

BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

Full scale biosolids pyrolysis system and nonincineration process



HQ Biochar Production

Production of PFAS free, Hydrocarbon free, CDFA certified Biochar



No Digesters Required

Capability to process undigested and digested sludge



Value Back Program

We handle the Biochar sales and give back a share of the profit to the City



Track Record and Reliability

35+ Operating Facilities Worldwide



BIOCHAR

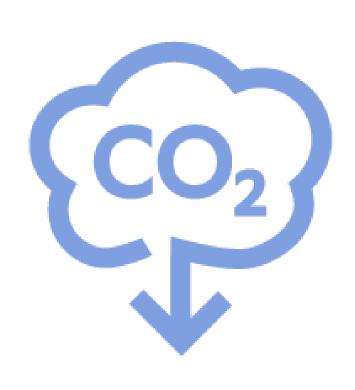
APPLICATIONS



- CECs free
- CDFA approved
- \$0 Disposal cost guaranteed
- Biochar profit share

BIOCHAR

CARBON SEQUESTRATIO N



Sequester

Every ton of biochar produced sequesters up to 5 tons of CO2

Fix

Biochar locks carbon in place for centuries

Offset

Replacing carbon emitting materials with biochar





PFAS REMOVAL

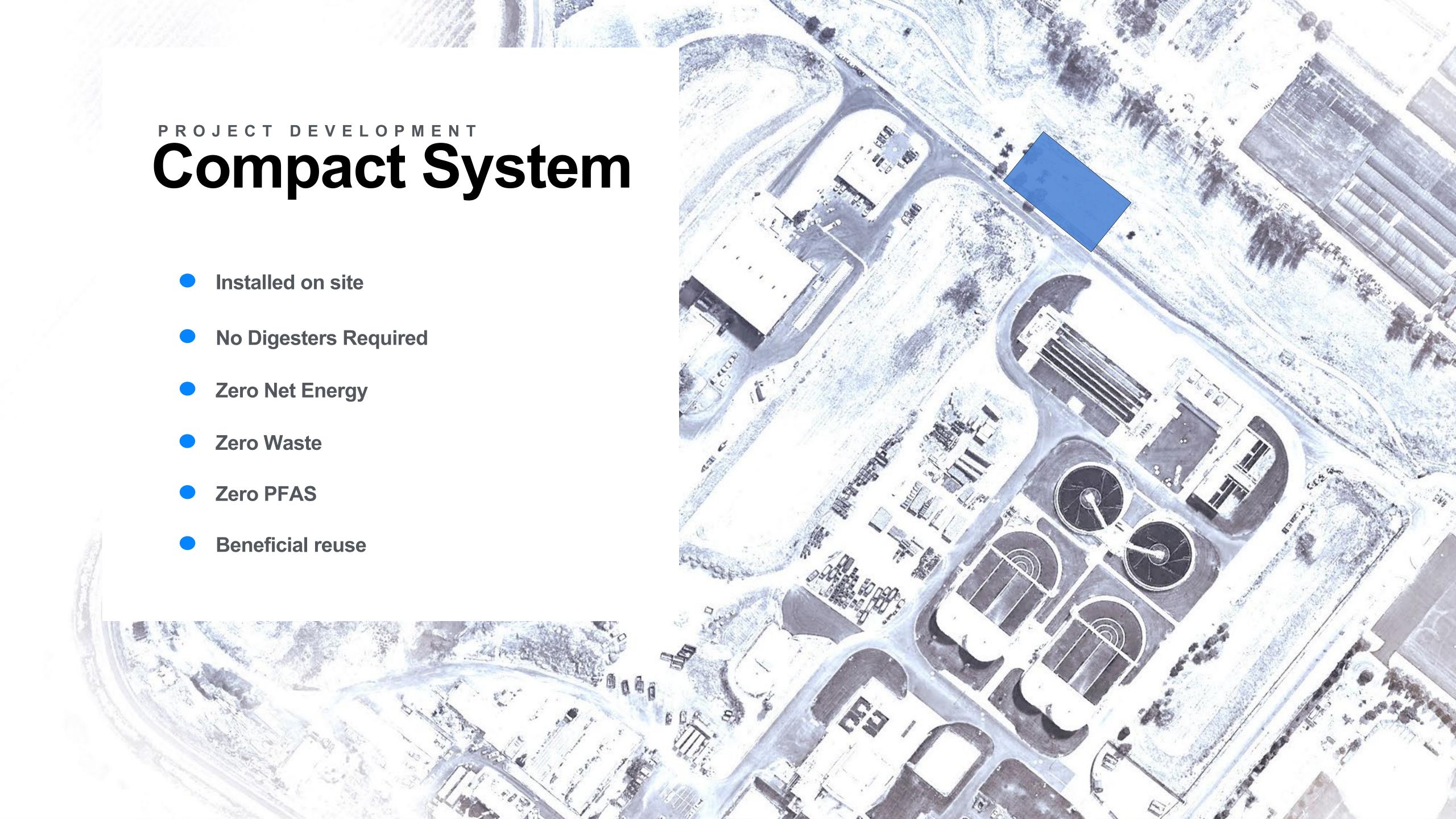
Bioforcetech has conducted an internal study to evaluate the fate of 38 PFAS and PFOAS compounds using this method. The published results detail the P-FIVE Reactor as an effective method for removing PFAS and PFOA from municipal Biosolids at an industrial scale.

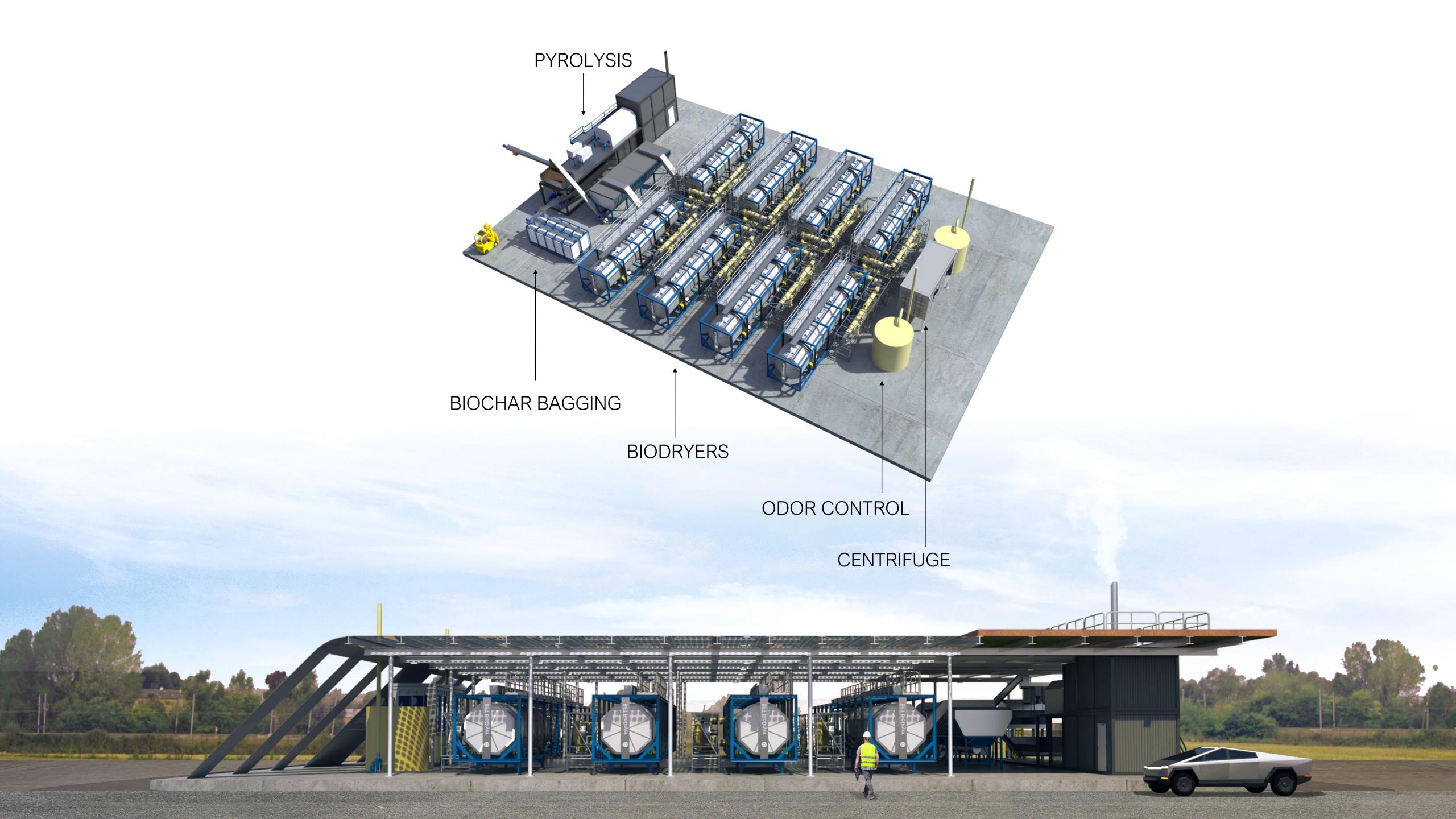


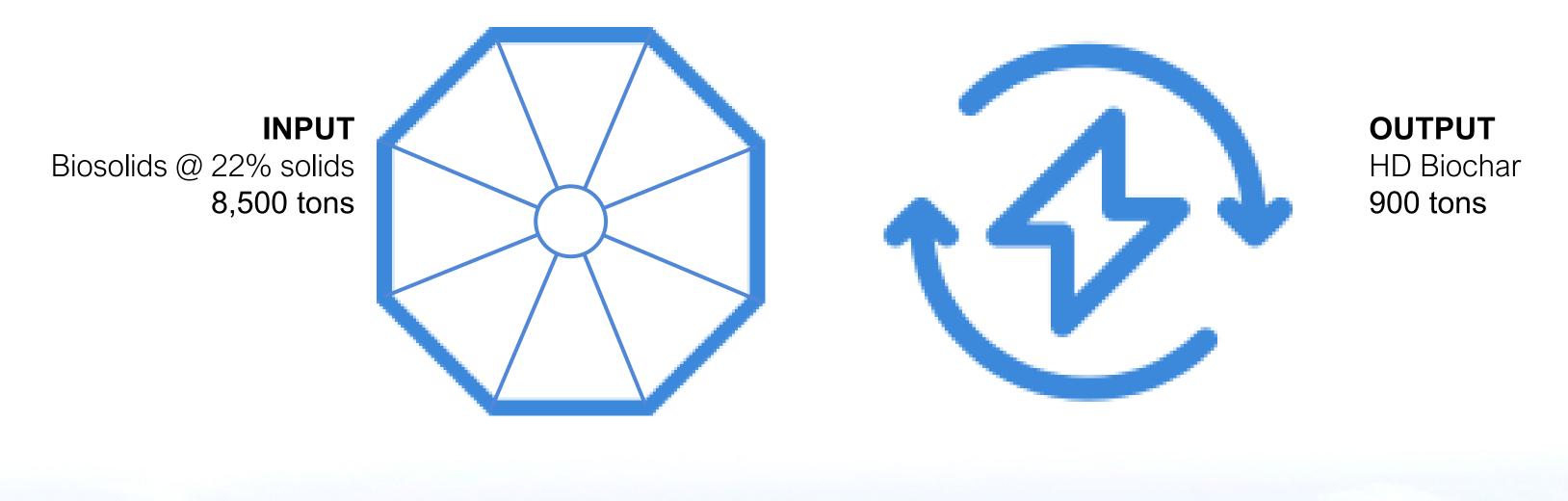
Compound Name	Dry Biosolids (ng/g)	Biochar (ng/g)
PFBA	7.03	Not Detected
3:3 FTCA	ND	Not Detected
PFPeA	5.94	Not Detected
PFBS	2.3	Not Detected
4:2 FTS	ND	Not Detected
PFHxA	33.7	Not Detected
PFPeS	ND	Not Detected
HFPO-DA	ND	Not Detected
5:3 FTCA	64.5	Not Detected
PFHpA	7.45	Not Detected
ADONA	ND	Not Detected
PFHxS	ND	Not Detected
6:2 FTS	ND	Not Detected
PFOA	89.1	Not Detected
PFHpS	ND	Not Detected
7:3 FTCA	40	Not Detected
PFNA	5.3	Not Detected
PFOSA	ND	Not Detected
PFOS	26.3	Not Detected
9CI-PF3ONS	ND	Not Detected
PFDA	11.3	Not Detected
8:2 FTS	5.68	Not Detected
PFNS	ND	Not Detected
MeFOSAA	23.5	Not Detected
EtFOSAA	19.6	Not Detected
PFUnA	3.39	Not Detected
PFDS	ND	Not Detected
11Cl-PF3OUdS	ND	Not Detected
10:2 FTS	ND	Not Detected
PFDoA	5.85	Not Detected
MeFOSA	ND	Not Detected
PFTrDA	ND	Not Detected
PFTeDA	2.44	Not Detected
EtFOSA	ND	Not Detected
PFHxDA	ND	Not Detected
PFODA	ND	Not Detected
MeFOSE	17.1	Not Detected
EtFOSE	ND	Not Detected

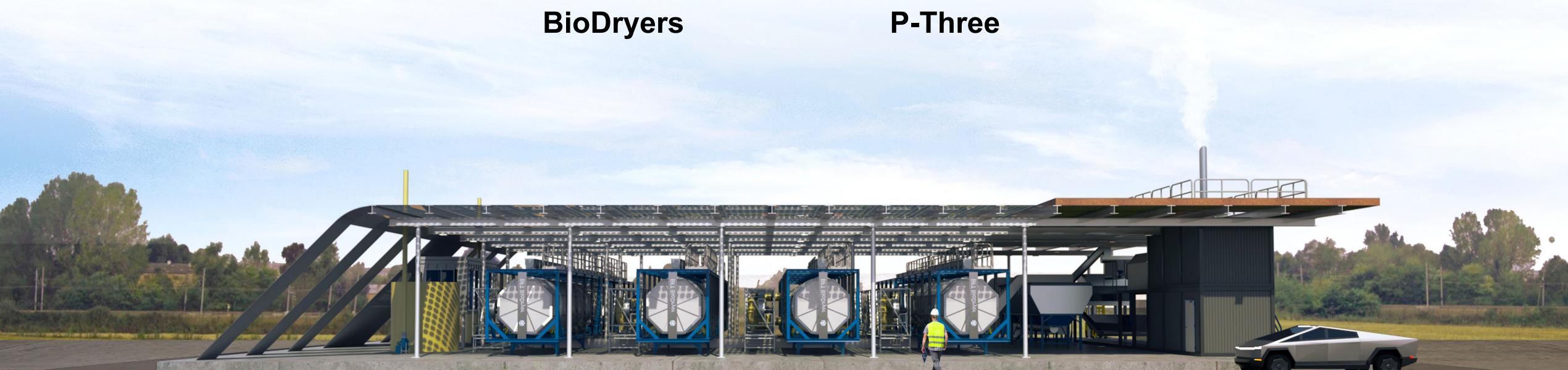


PROJECT DEVELOPMENT





















Fixed costs and low O&M

From 500 trucks/y to 50 trucks/year

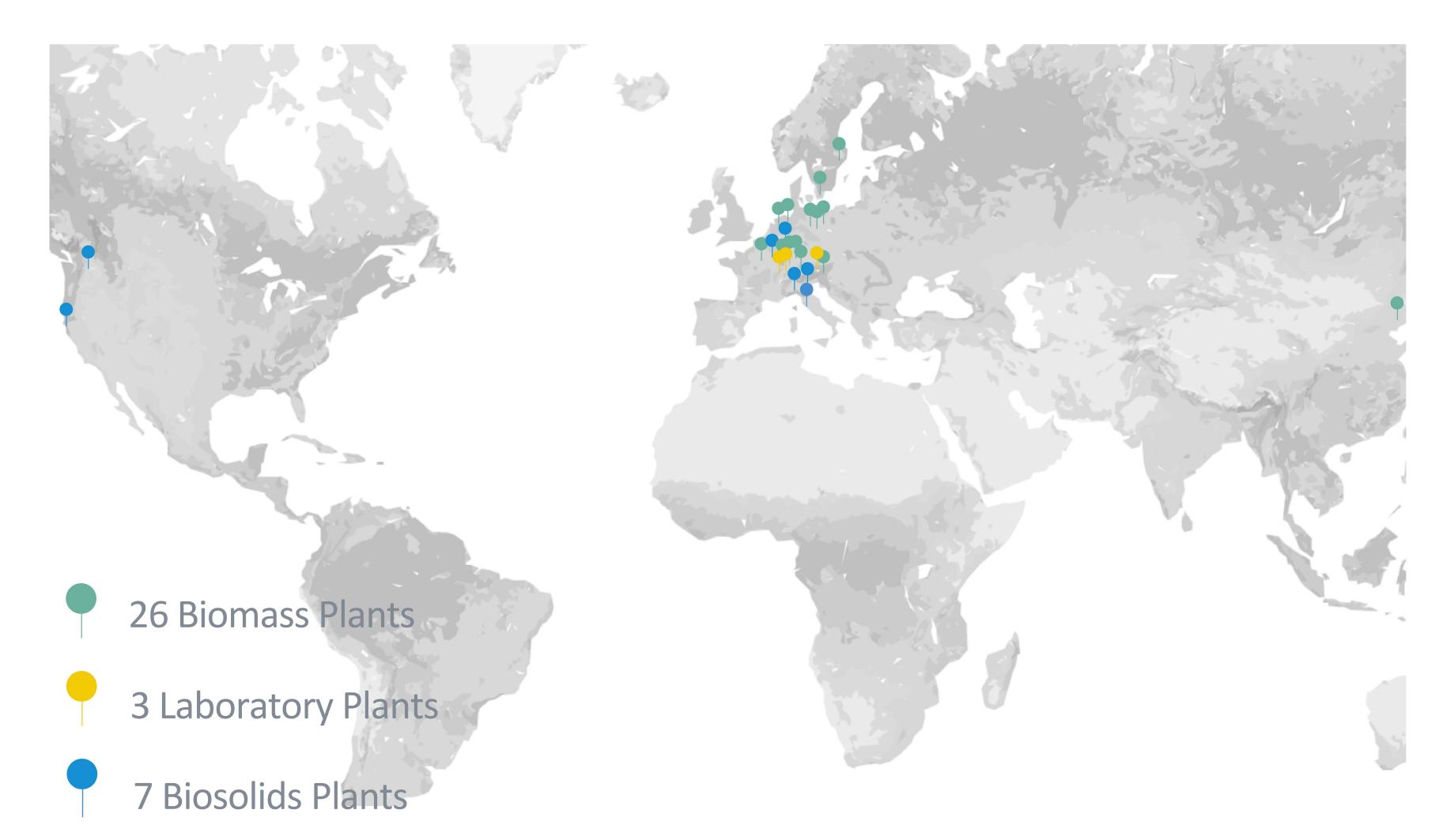
Zero Net Energy

Zero Waste

Up to 8,000 tons
CO2e sequestered

2020 REFERENCES





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