

ZERO ENERGY | HYDROTHERMAL CARBONIZATION

C GREEN

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At C-Green, we have developed a **new energy-efficient method** to convert industrial and municipal sludge into a **high-energy biofuel**.

To **solve the problem** of sludge disposal, mitigate negative environmental effects, and **reduce costs**.

ZERO
ENERGY | HYDROTHERMAL
CARBONIZATION

HTC REACTOR



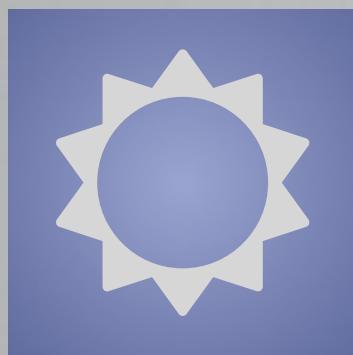
All sludge
types



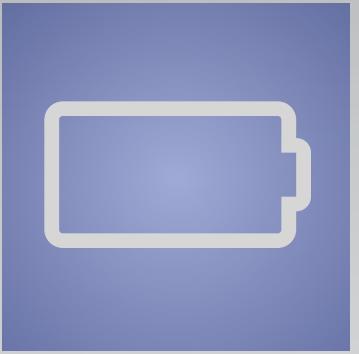
Impressive
dewatering
65-75% DS



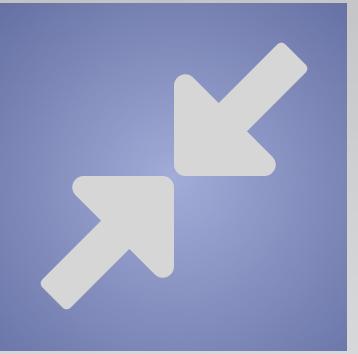
High capacity
6000 t DM/yr



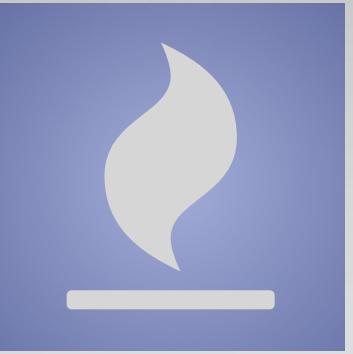
Hygienic



Zero Energy



Small
footprint



High-energy
biofuel

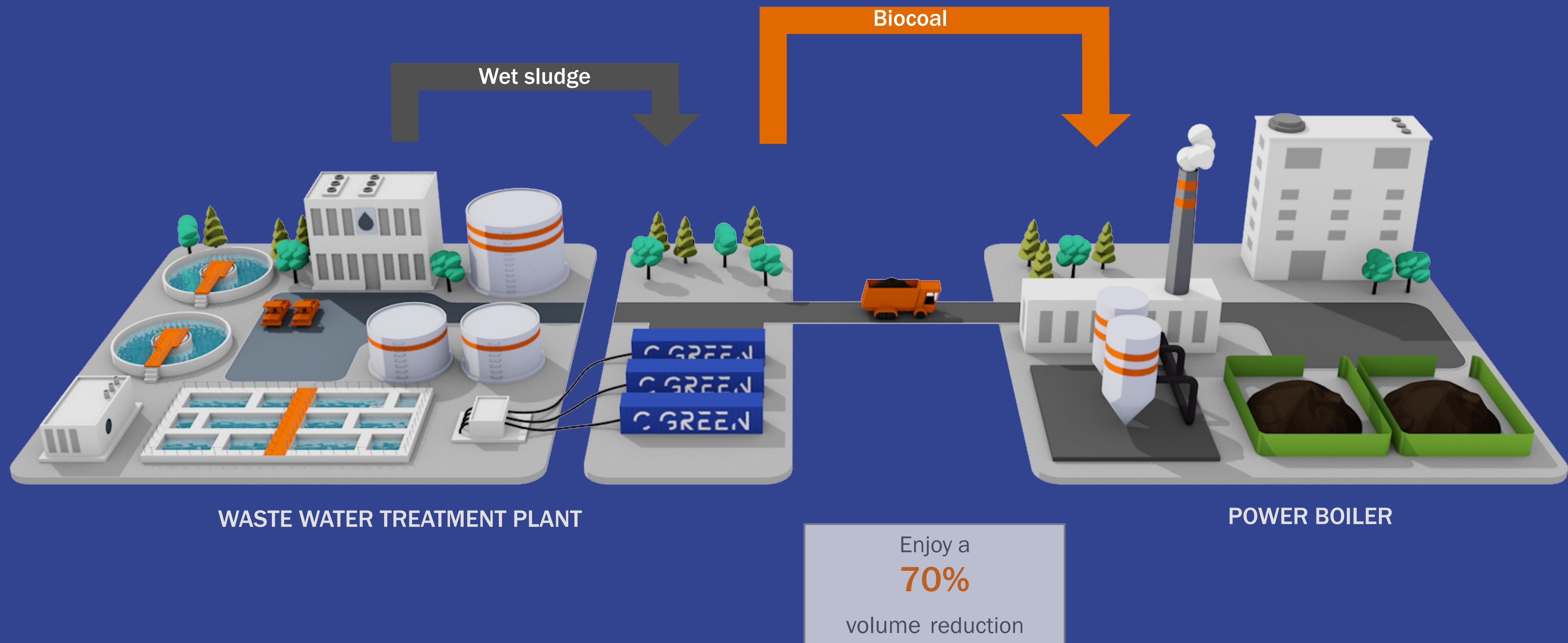


Improved biogas
production

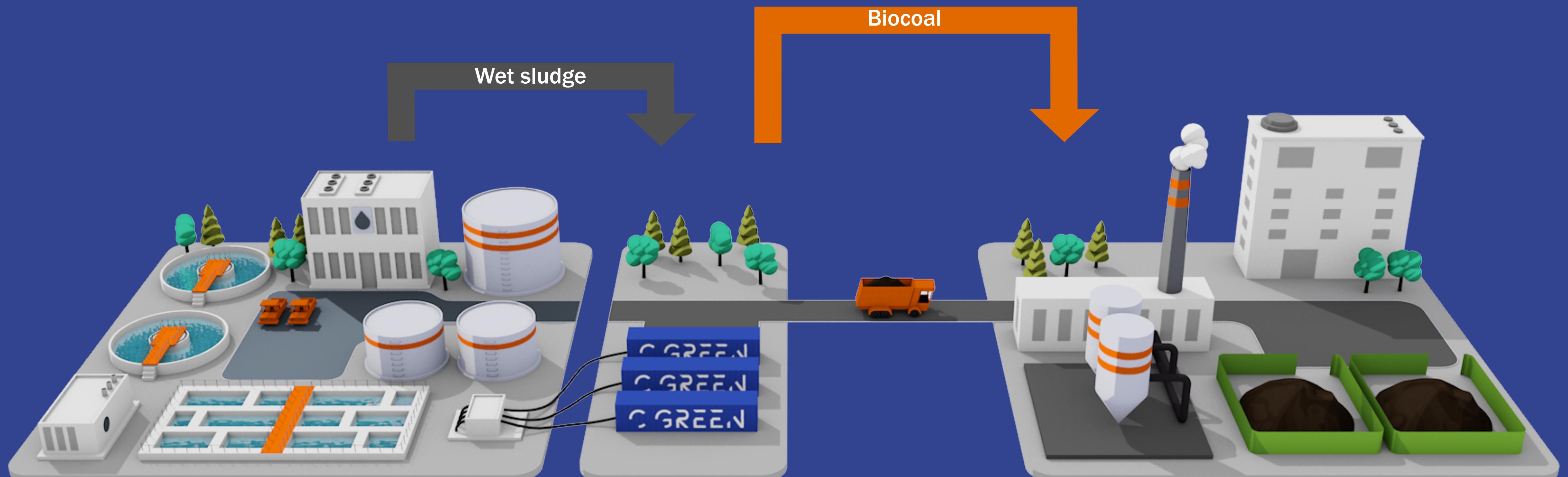


We convert sludge into something useful

Our HTC process upgrades low heat value sludge to high heat value biocoal on-site



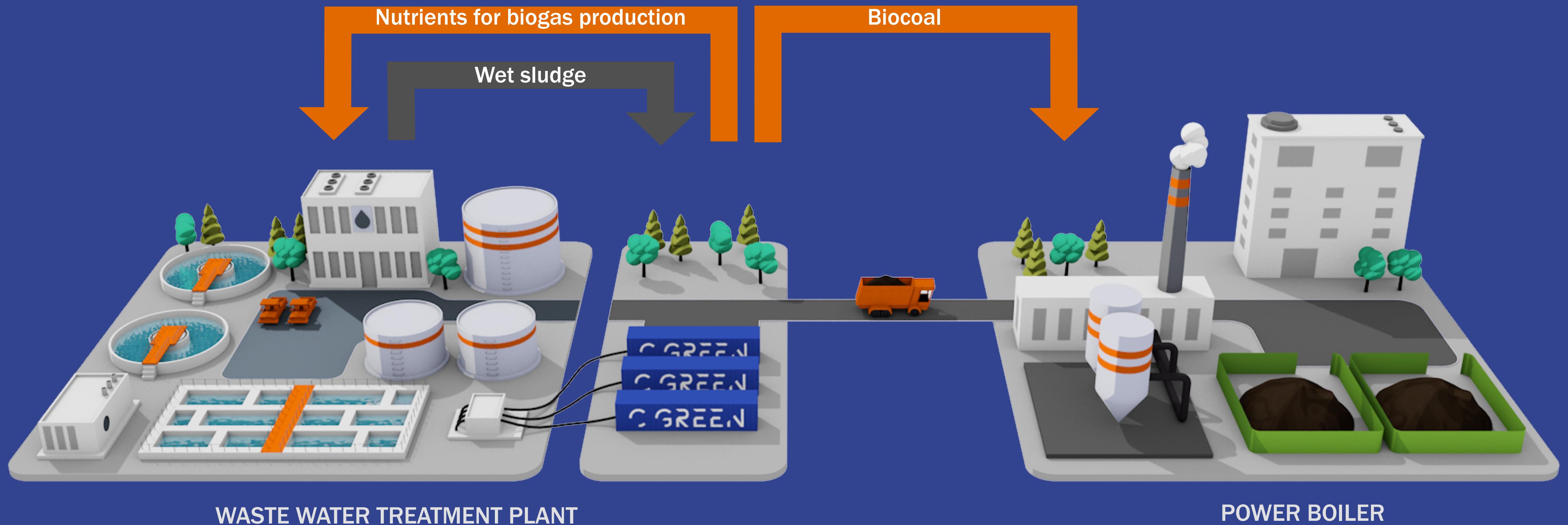
We convert sludge into something useful



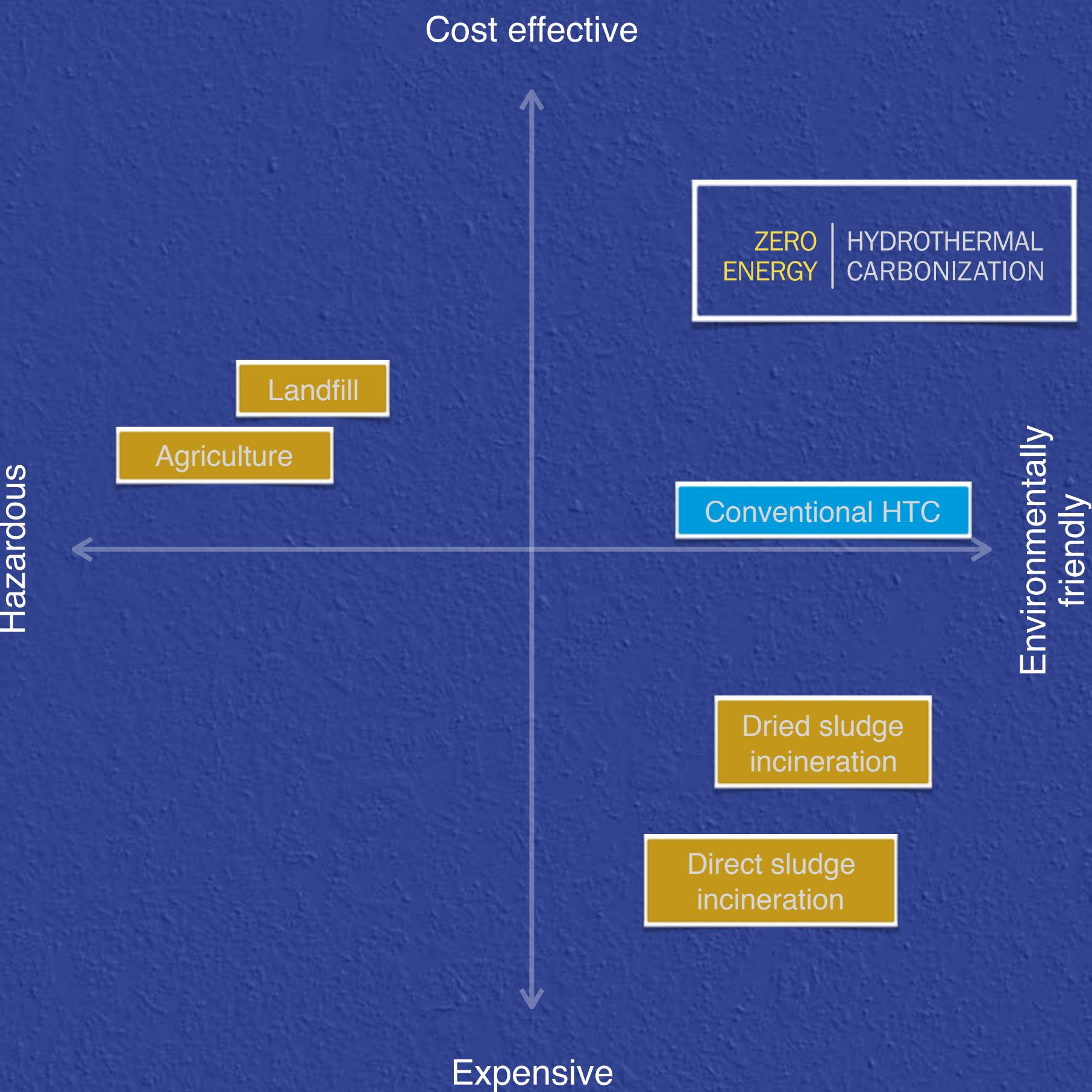
Save
on sludge
dewatering costs

We convert sludge into something useful

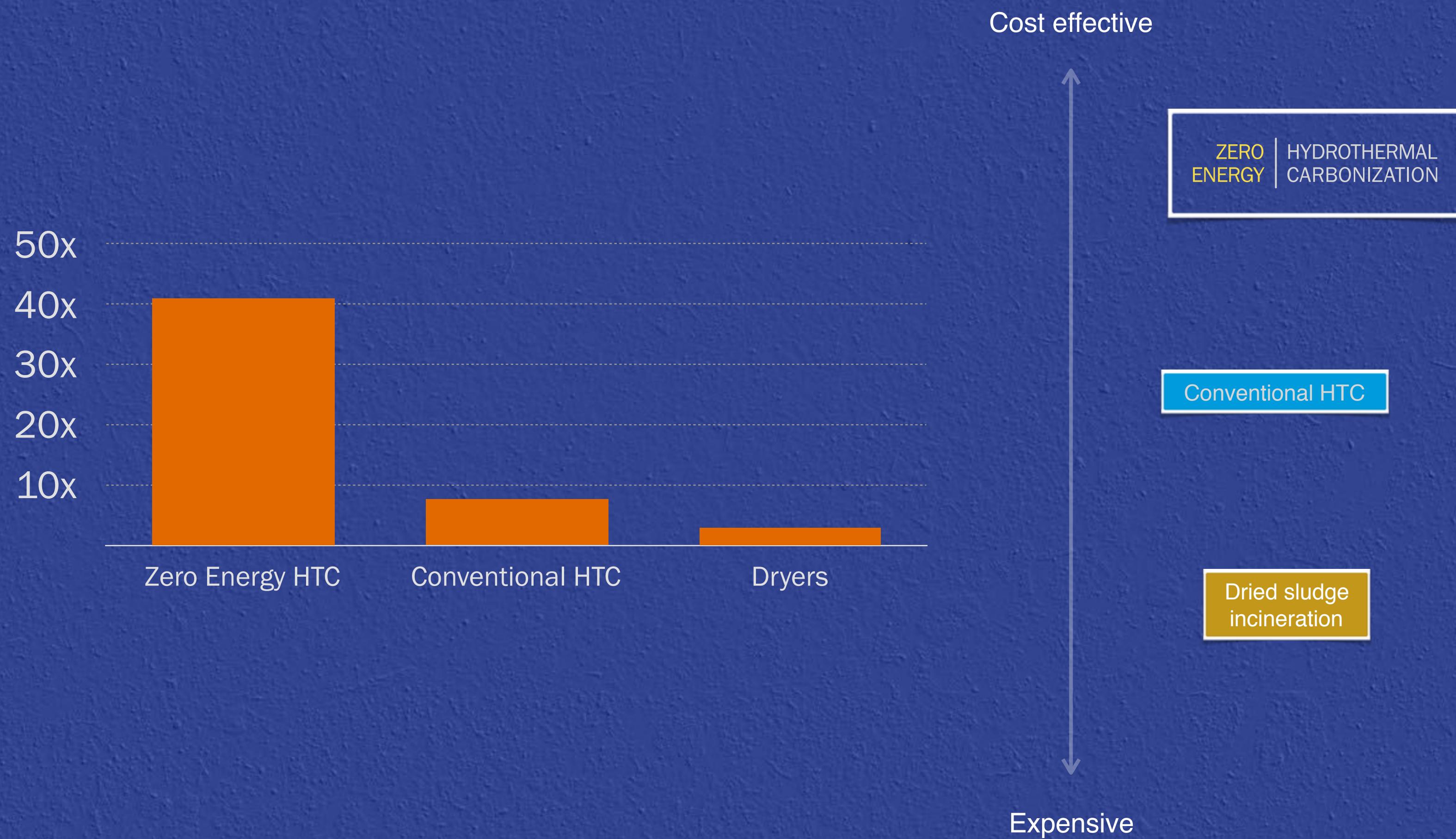
We can enable a 7-12% increase in biogas production



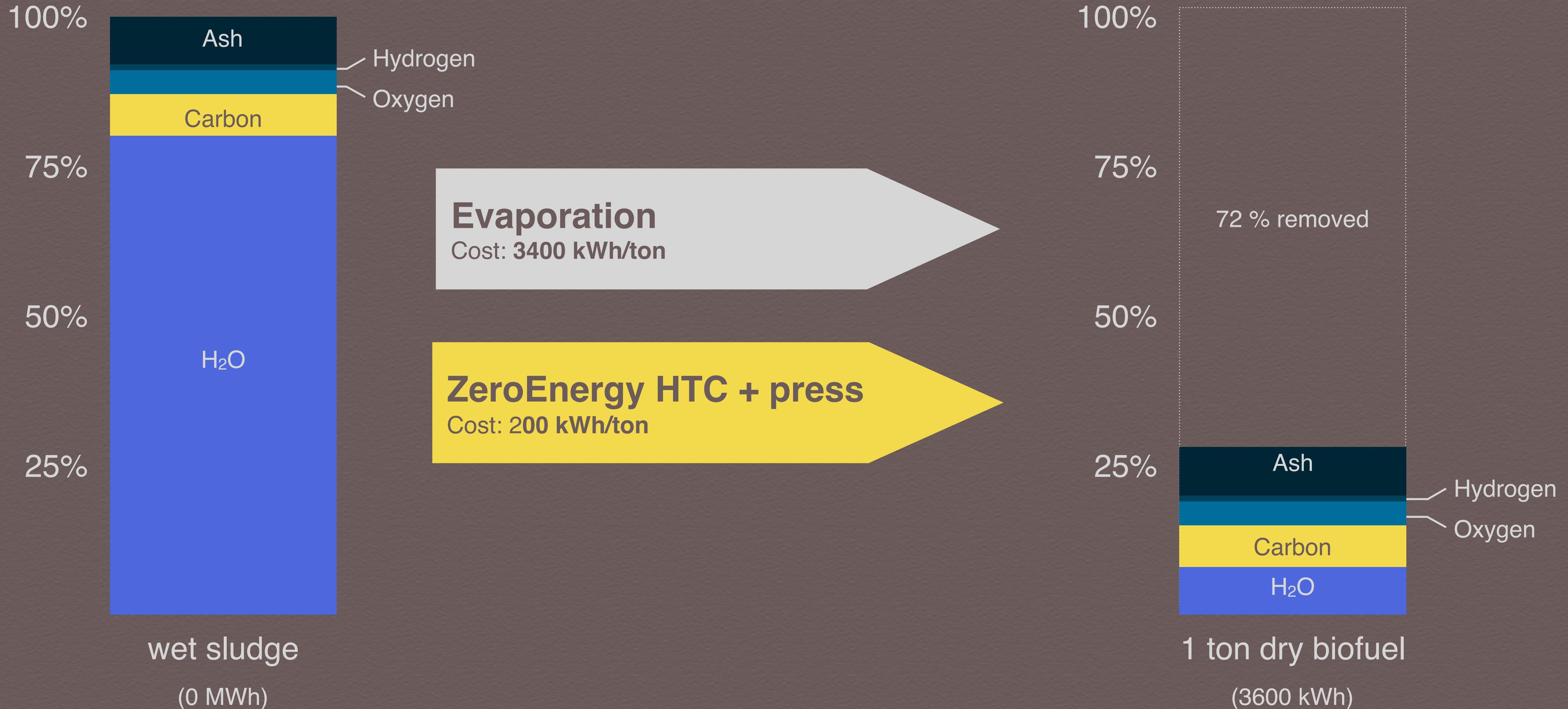
Competition and alternatives



Conversion of sludge to useful bioenergy



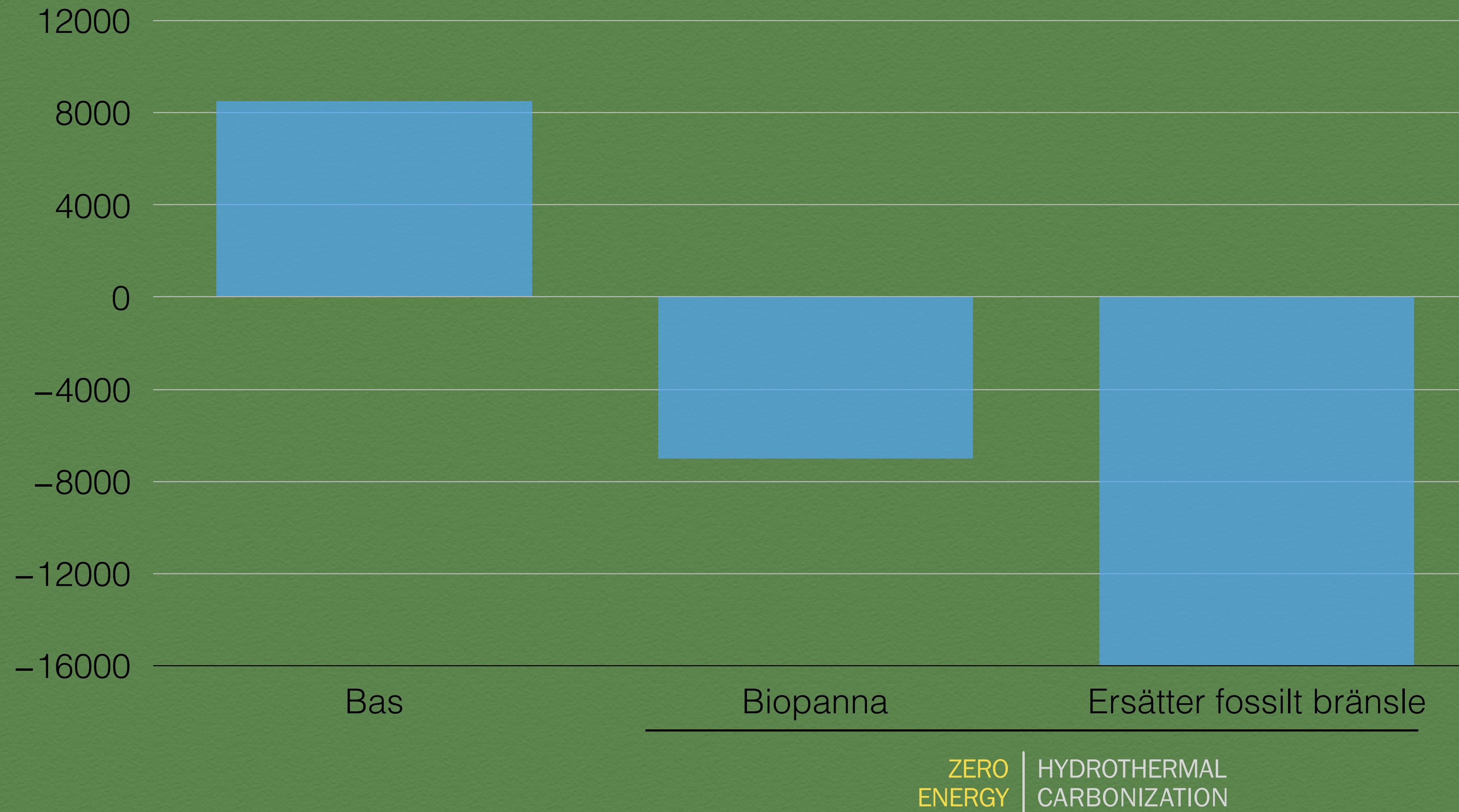
How to get a ton of dry biofuel



Hantering av slamutmaningar

Lukt	Reduceras drastiskt
GHG	Reningsverk blir växthusgaspositiva
Tungmetaller	I askan vid förbränning
Mikroplaster	Förstörs vid förbränning
Patogener, virus	Hygieniseras
Mikroföroreningar	Reduceras och deaktiveras
Transporter	Minskas radikalt
Näringsämnen	P kan återvinnas samt del av N
Utnyttjande av kemisk energi i slammet	Nästan all energi i slammet kan nyttiggöras
Kostnader	Signifikanta besparingar

GHG - HTC möjliggör en significant reduction av växthusgaser



Challenge I Gryaab, Gothenburg area

Target improvements

Energy use
-44 %

Biogas production
+10 %

CO₂ reduction
-25k ton
(fossil fuel)
-15k ton
(biofuel)

Cost reduction
(inc depreciations)
15 %