

PYROLYSIS TO GENERATE BIODIESEL FROM POULTRY LITTER



In Association with SVCH-Technologii, Moscow (Russia)
ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

ABOUT US

KERONE is now renowned for serving the specialized needs of customers with the best quality and economical process of Heating /cooling and drying products, manufactured in a high-quality environment by a trained and qualified workforce (special purpose machinery)

-  48+ Years Manufacturing Excellence
-  Great Sale Support
-  Highly Customized Product
-  Adherence to Standards
-  Sound Infrastructure
-  Team of experts Delivering Quality
-  Timely Delivery
-  Cost Effective Solutions



KERONE is a pioneer in application and implementation engineering with its vast experience and team of professionals.



KERONE is devoteded to serve the industry to optimize its operations both economically and environmentally with its specialized heating and drying solutions.



KERONE is having immense expertise in manufacturing and implementing various types of engineering solutions.



KERONE is possessing employee strength of more than 280+ experts continuously putting efforts for happy industrial engineering solutions.

WHY CHOOSE US

With decades of expertise, cutting-edge technology, and a customer-centric approach, Kerone Engineering offers tailor-made heating solutions that prioritize quality, flexibility, and cost-effectiveness. Benefit from our commitment to excellence, post-sales support, and innovative solutions for your unique heating needs. Choose Kerone Engineering for reliability, performance, and unmatched value.

MISSION

- ✓ To enhance the value of customer operation through our customer need centric engineering solution
- ✓ We are committed to provide our customers, unique and best in class products in Industrial heating drying and cooling segment with strategic tie-up for the technical know-how with renowned leader in the industry specific segment

VISION

- ✓ Turn into a world leader in providing specialized, top-notch quality and ecological industrial heating, cooling, and drying solutions across the globe.
- ✓ To attain global recognition as the best of quality and environment-friendly engineering solution company.

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Enhance the value of customer operation through our customer need centric engineering solution.

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Overview

What is pyrolysis?

What can this do for the industry?

What is Bio-diesel?

How can this reduce pollutants?

Economic Impacts

Why is this important?

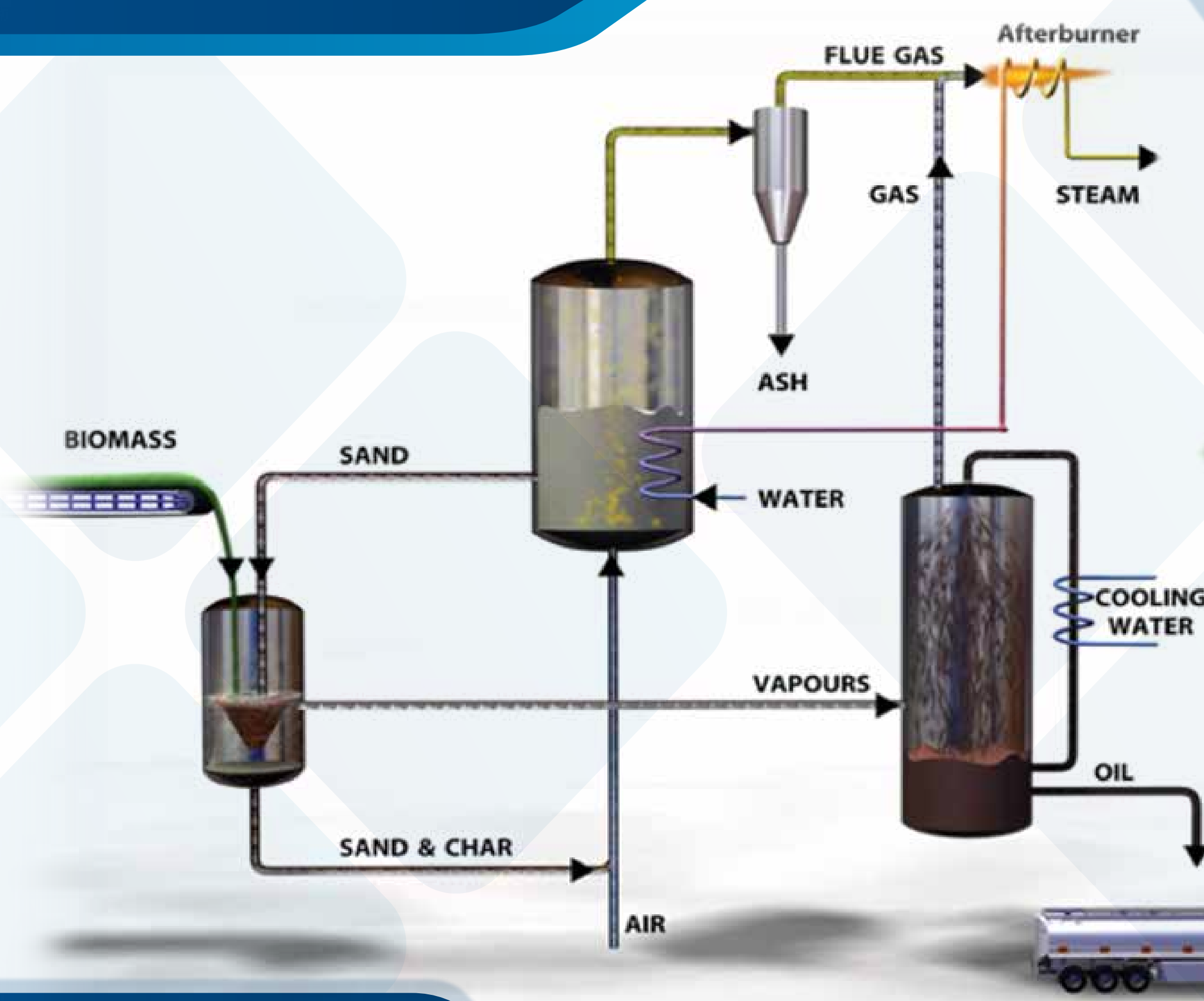


Pyrolysis and Bio-Diesel

- ▮ The decomposition of something through very high temperatures.
- ▮ This produced a bio-oil that can then be used to produce bio-diesel
- ▮ By definition of Webster's dictionary: a fuel that is similar to diesel fuel and is derived from usually vegetable source

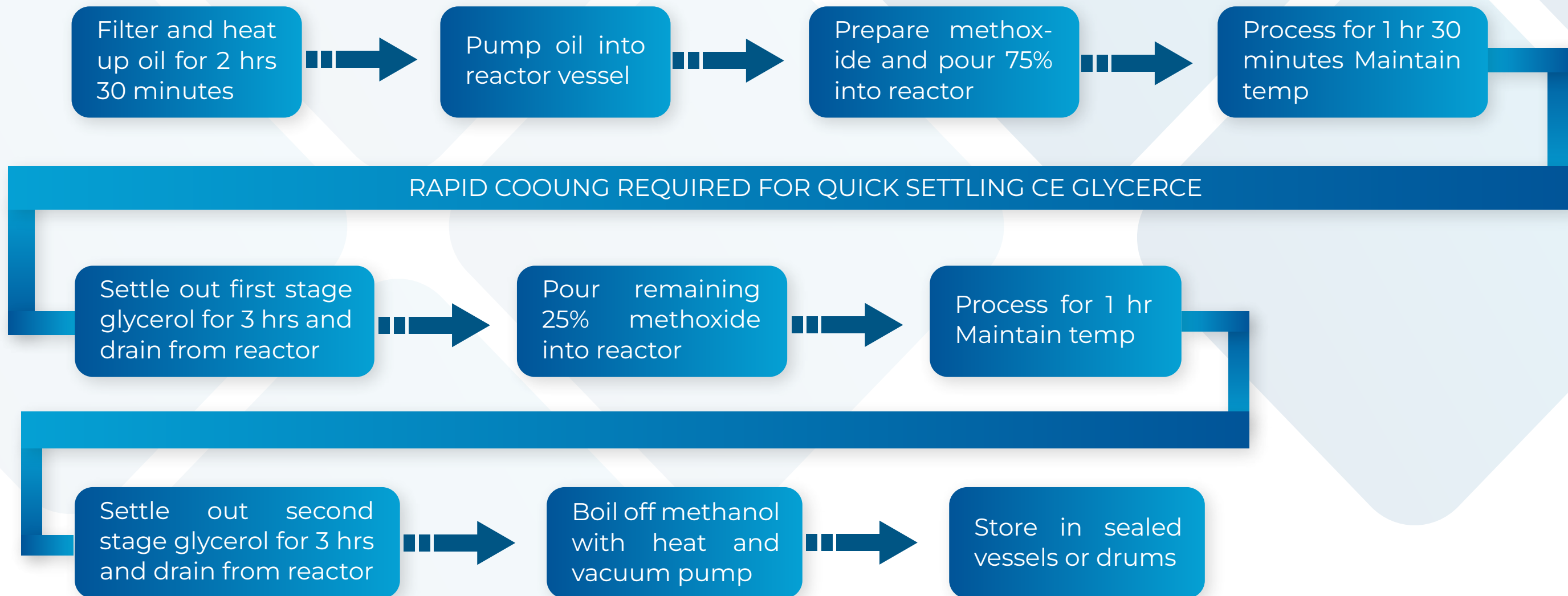
▮ Pyrolysis is a thermal decomposition process that occurs in the absence of oxygen, used to break down organic materials like biomass, plastics, and tires into valuable products such as bio-oil, syngas, and char. Biodiesel is a renewable fuel made through the chemical process of transesterification, where fats or oils (usually vegetable oils or animal fats) are converted into fatty acid methyl esters (FAME), which can be used as a cleaner alternative to traditional diesel fuel. The two processes are related in sustainable energy production, as pyrolysis can convert biomass into bio-oil, which can be further refined into biodiesel, thus promoting circular waste-to-energy systems.





BIO-DIESEL FUEL RENEWABLE.DOMESTIC.SUSTAINABLE.

KERONE STANDARD TRANSESTERIFICATION PROCESS OF UCO



Transesterification time is approx 20 hrs per 200 litre batch.

What does this mean for the poultry industry?

- | If this process would "take off" they would now have an outlet for all the excess litter that they don't spread on fields.
- | They can now make money off of what was considered waste.
- | Bio-oil from pyrolysis can be refined into biodiesel, offering a renewable energy source for farm operations.
- | Promotes a circular economy, reducing the carbon footprint and improving environmental sustainability.

What does this mean for the environment?

- | It would reduce the excess Phosphorus and Nitrogen that would be placed on fields.
- | Bio - diesel is also environmentally friendly.
- | Biochar, a by-product of pyrolysis, can enhance soil quality and carbon sequestration, promoting healthier ecosystems.
- | Biodiesel produces fewer greenhouse gases compared to fossil fuels, helping to mitigate climate change.

Economic Benefits

- | Large scale production of biodiesel could create over 75,000 new jobs
- | Farmers can now get paid for something they have plenty of, increasing the average income of the poultry farmers.
- | It could increase the nation's GDP.
- | Biodiesel offers a cheaper, renewable alternative to traditional diesel, lowering operational costs.

Why is this important?

- | It reduces the EPA regulations that the farmers have when dealing with where to place the excess litter
- | It would be a great second source of income for farmers
- | Making it allows for a better diesel alternative for diesel engines
- | These technologies lower carbon emissions, reduce waste, and mitigate pollution, playing a vital role in combating climate change.

TRUSTED PARTNERS

AFCONS

Technip

TÜV

ISO 14001:2004

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WE CREATE SOLUTIONS

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Engineering
Associates Pvt. Ltd.

TATA
TATA CONSULTING ENGINEERS LIMITED

SC Shroff Consultants

STERLING & WILSON

THANK YOU

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