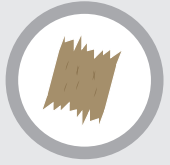
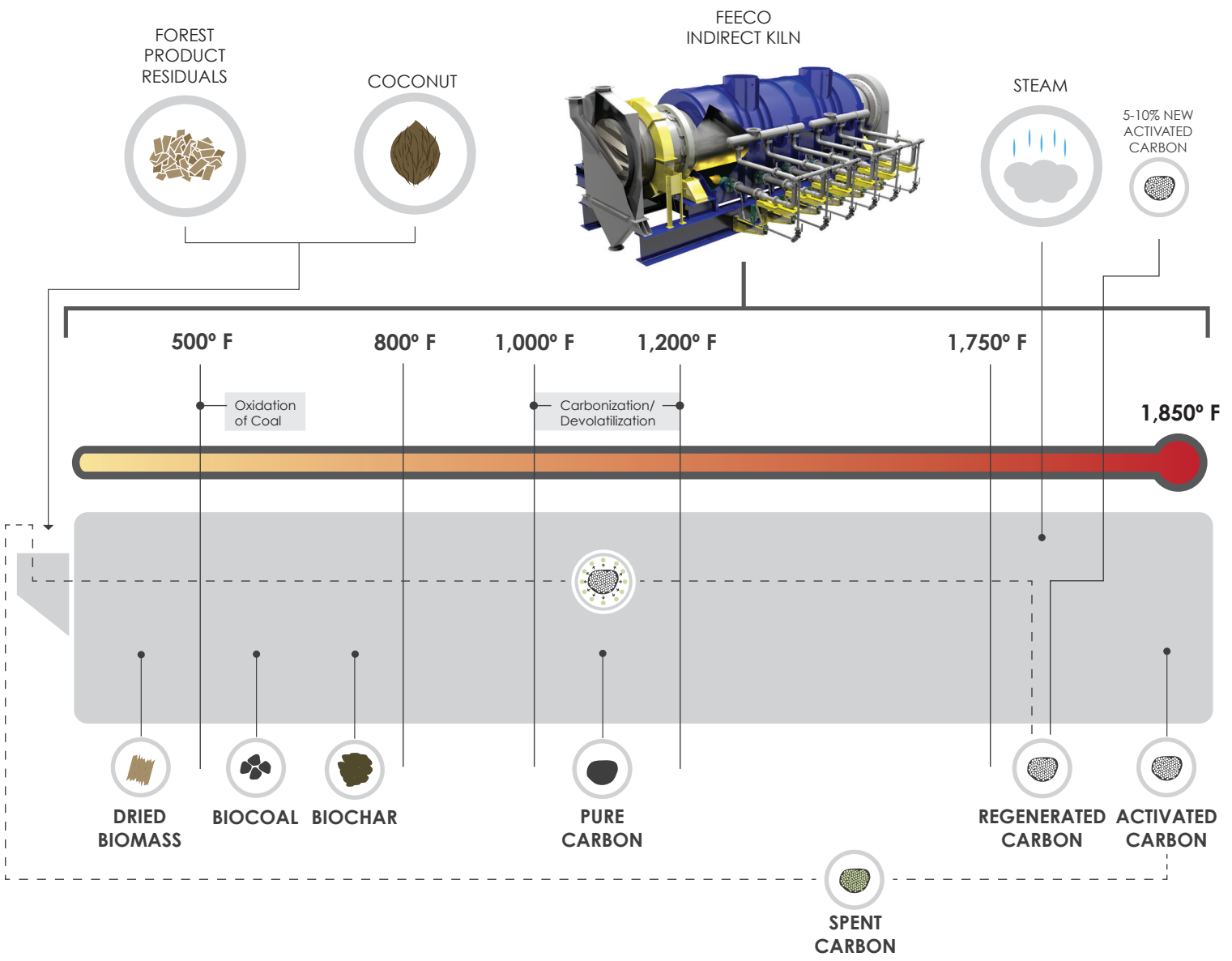


# FROM BIOMASS TO ACTIVATED CARBON

(and everything in between)



## DRIED BIOMASS

< 500° F

MARKET VALUE  
\$\$\$\$\$



### Increased usability as a fuel source:

- Ideal moisture content
- Concentrated BTU value
- Can be pelleted

In 2015, wood biomass production in the US hit a near **10 million** short tons per year.\*



## BIOCOAL

500 - 800° F

MARKET VALUE  
\$\$\$\$\$



### Synthetic form of coal:

- Upgraded form of dried biomass
- Burns cleaner than traditional coal
- Can replace or be co-fired with coal

Biocoal can be briquetted for easier and cleaner handling.



## BIOCHAR

500 - 800° F

MARKET VALUE  
\$\$\$\$\$



### Valuable soil amendment:

- Powerful in soil restoration
- Potential use in carbon sequestration
- Roots in ancient civilizations

When burning wood, this process is also referred to as **torrefaction**.



## PURE CARBON

1000 - 1200° F

MARKET VALUE  
\$\$\$\$\$



### Upgrade from biochar & biocoal:

- Few uses
- Can serve as a filler in plastic products

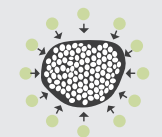
**75 - 90%**  
Between 1,000 - 1,200° F, 75 - 90% of the volatile components in the material are destroyed.



## ACTIVATED CARBON

1750 - 1850° F

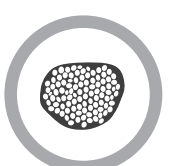
MARKET VALUE  
\$\$\$\$\$



### Powerful adsorbent:

- Extremely porous structure
- Nearly infinite applications: air and water treatment, metal recovery, and more

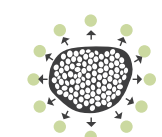
Activated carbon is gaining traction in controlling **disinfectant byproducts (DBPs)** in drinking water treatment.



## REGENERATED CARBON

1650 - 1850° F

MARKET VALUE  
\$\$\$\$\$



### Spent carbon can be regenerated:

- Can be used in place of new
- Powdered activated carbon is typically not regenerated, but disposed of

Regenerated carbon is often less costly than purchasing new, and also offers a smaller carbon footprint.

## STAY INFORMED

FEECO is a leader in advanced thermal processing, including the custom systems for the drying of biomass, the production of biocoal and biochar, and the production and regeneration of activated carbon. For more information, contact us today! [sales@feeco.com](mailto:sales@feeco.com)

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