

"3R" zero emission and energy independent carbon refinery technology Application map 2023

3R reductive thermal processing in any range up to <850°C material core temperature.

High temperature reductive thermal processing <850°Celsius material core temperature processed

**Activated Carbon
Virgin & Regeneration-
ADSORBENTS**

**ABC-BioPhosphate
Animal Bone Char
BIOPHOSPHATE**

**High C content
Plant BioChar
BIOCHAR**

Special adsorbents and surface modified substances. Biofertilisers. Green energy.

... and many other application areas, incl. petroleum jelly, coatings, preservative...



**Industrialisation of
Refined Carbon &
Graphene products**

**Browncoal processing
RECOVERED
ANTHRACITE**

**Pyrolysis oil refinery
Renewable energy
GREEN ELECTRICITY**

Low temperature reductive thermal processing <450°Celsius material core temperature processed