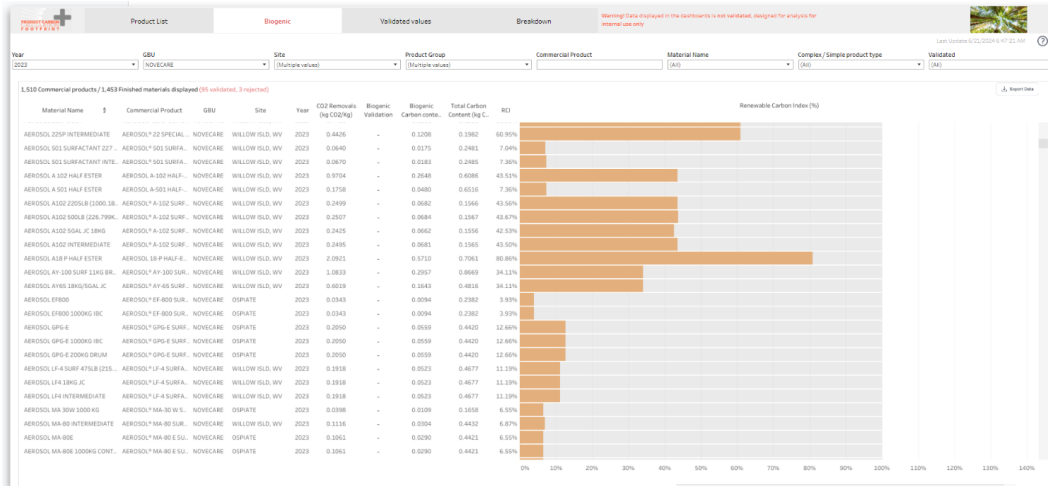


Biogenic



General Description:

Biogenic CO₂ refers to carbon in wood, paper, grass trimmings, and other biofuels that was originally removed from the atmosphere by photosynthesis and, under natural conditions, would eventually cycle back to the atmosphere as CO₂ due to degradation processes.

Indicators:

| Indicators | Definition | Calculation |
|---|---|---|
| RCI (Unit: %) | Renewable Carbon Index | $\frac{\sum_{Raw\ Materials} BCC_{rawmat} * TCC_{rawmat} * ActualQty_{RM} * Concentration_factor}{TCC_{FP\ estimated} * Finished_product_qty_from_imep}$ |
| Biogenic CO2 removals (Unit: kg CO2 / kg product) | CO2 removals induced by the biogenic carbon | $Biogenic\ CO2\ Removals\ [kgCO2/kg] = \frac{\sum_{Raw\ Materials} BCC_{rawmat} * TCC_{rawmat} * Quantity_{RM} * Concentration_factor}{Finished_product_quantity} * 3.664$ <p>With :</p> <p>(Molar mass of CO₂) / (Molar mass of carbon atom) = 3.664 due to :</p> <p>Molar mass of CO₂: 44.01 g/mol</p> <p>Molar mass of Carbon atom : 12.011 g/mol</p> |

Data Sources:

| Type | Data | Scope and Refresh |
|------------------------------|---|------------------------------------|
| Flat Files data R&I Novocare | Raw Materials data: <ul style="list-style-type: none"> BCC TCC Concentration factor | Novocare, plant Clamecy and Winder |
| Flat Files data Supplier | Finished Product Data: <ul style="list-style-type: none"> BCC TCC Concentration factor | No data available for now |

Guided Tour: Using This Section

