Solid Carbon Products LLC

The Business of transforming CO₂ from an environmental liability into a profit center.

www.solidcarbonproducts.com
Noyes Process – Convert CO₂ into Carbon Performance Additives

CO₂

Hydrogen or Natural Gas

Carbon Nanomaterials

Distilled Water
Agricultural & Industrial Use
Sources of CO₂ - SCP is source agnostic

- **CO₂ direct purchase**
  - CO₂ Bulk Purchase: CO₂ purchased in bulk
  - Natural Gas Extraction: CO₂ removed from natural gas to ready the gas for sale
  - Energy Generation: CO₂ captured from fossil fuel combustion flue gases
  - Industry or Waste Mgt: CO₂ by-product captured during manufacturing process – cement, carbon black, or from eg landfill or agricultural mgt
  - Direct Air Capture: CO₂ captured directly from the atmosphere

- **CO₂ via a carbon capture technology**
Noyes Process is Carbon-Negative

“the numbers indicate that the overall Noyes Process is carbon-negative - in other words, there is a net carbon reduction – under just about any configuration of the technology”

Noyes Process

\[ \text{CO}_2 + \text{H}_2 \text{ or CH}_4 \rightarrow \text{C}_{\text{Solid}} + \text{H}_2\text{O} \]
Large Market Opportunity – 2018 data

- Carbon Black: 14M tons = $18B
- High Purity Carbon: 1.6M tons = $4B
- Carbon Fibers: 0.7M tons = $2.5B
- Carbon Nanofibers/Tubes: 5K tons = $0.6B

$25.3B

Global Carbon Market
Greenhouse Gas Mitigation - Profitably

Solid Carbon Products
Revenue Profits and GHG Impacts

- Revenue
- Gross Profit
- EBITDA
- Cumulative GHG Impact (through year 10)
Next Steps - Build 50 TPM Commercial Demonstration Plant

- Complete raise - Capex and Opex - $42M
  - IRR > 40%
  - Exit within 7 – 10 years
- Demonstrate successful commercial scaling
- Environmental Impact
  - reduces/avoids 3.6 – 4.2 tons of emitted GHG per ton of carbon black produced

Profitable environmental impact
## Re-Thinking the Carbon Market

<table>
<thead>
<tr>
<th>CO₂ Producers *</th>
<th>Carbon Producers *</th>
<th>Carbon Users *</th>
</tr>
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<tbody>
<tr>
<td>Want higher profitability on their CO₂ product and a stronger CO₂ environmental impact</td>
<td>Want improved profitability in producing carbons and a stronger environmental impact. Want higher profitability on their CO₂ product and a stronger CO₂ environmental impact</td>
<td>Two global tire manufacturers want to differentiate their product by using “low CO₂ emission” carbon black, as well as benefit from the enhanced material properties</td>
</tr>
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** SCP has signed MNDAs with all of these entities**
# Re-Thinking the Carbon Market

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<td>Joint Venture with Carbon Producers – providing CO₂ as feedstock, profitably.</td>
<td>Transition to CO₂ as a feedstock, profitably.</td>
<td>Transition to “low CO₂ emission” carbons: Tires Carbon Composites, Carbon fiber Steel refining</td>
</tr>
<tr>
<td>Provide a valuable use for CO₂ – offsets cost of capture/scrubbing.</td>
<td>Cease releasing CO₂ as a by product of traditional production of carbons</td>
<td>Sequester CO₂ in human built environment, profitably.</td>
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Solid Carbon Products LLC

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