

# New Sky Energy



*Carbon negative manufacturing: a sensible,  
cost-effective carbon capture strategy*

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# New Sky Technology

Treat CO<sub>2</sub> as a resource rather than a pollutant.

Waste salt → Acid + Base



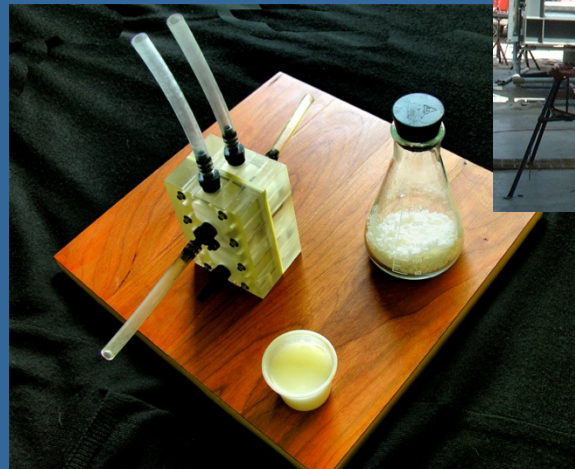
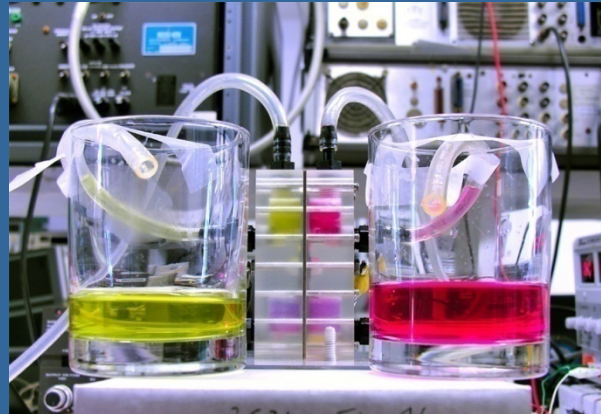
CO<sub>2</sub> + Base



Baking soda, Limestone  
Soda Ash



C-Negative plastics, glass,  
polymers, building  
materials



## Carbon neutral chemical products

New Sky

Base

Acid

Hydrogen

Oxygen

## Carbon negative products

Baking soda  
Soda ash  
Lime  
Potash

Carbonate





Polymers,  
carbon fiber,  
urea, resins,  
organic  
chemicals,  
fabrics, fuels

Carbonate based products:  
Filled plastics, road base, cement,  
dry wall, bricks


CO<sub>2</sub>

# New Sky Products

## Carbon-neutral chemicals

- Caustic soda (NaOH) 
- Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) 
- Hydrogen  and oxygen 

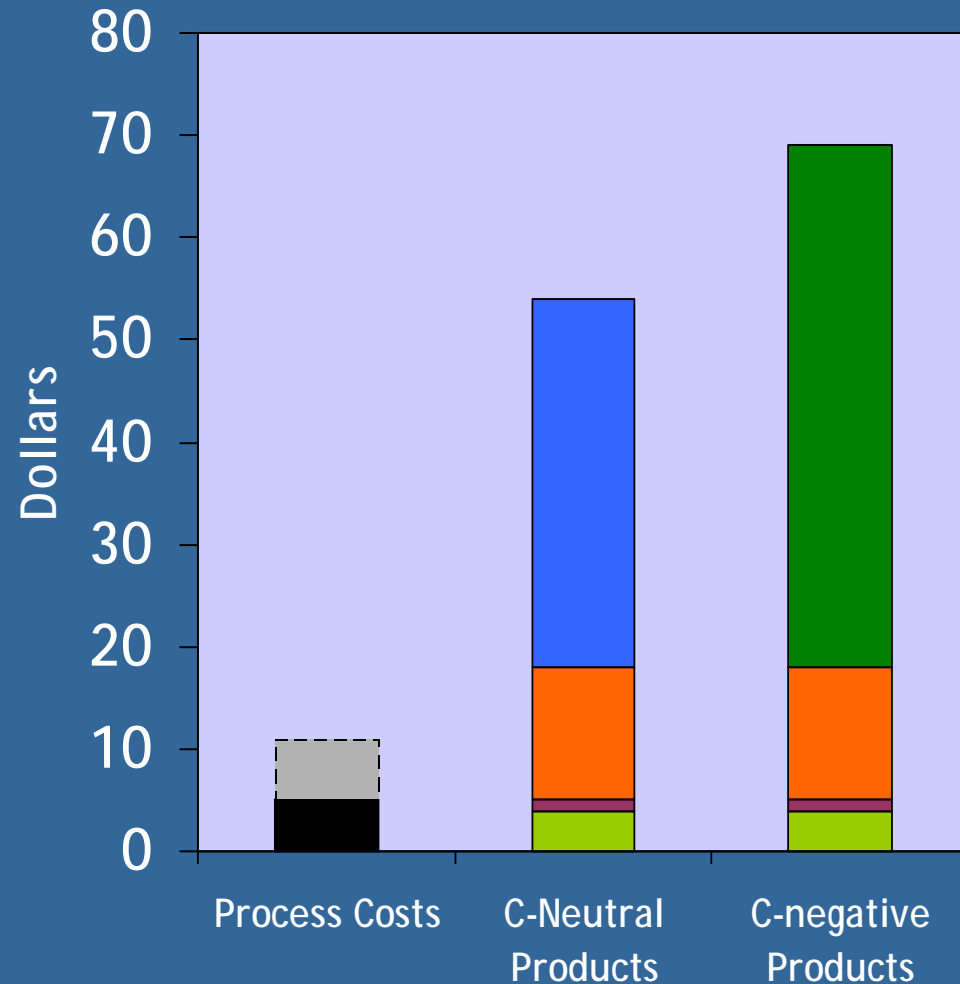
## Carbon-negative chemicals

- Baking soda (NaHCO<sub>3</sub>) 
- Soda ash (Na<sub>2</sub>CO<sub>3</sub>)
- Limestone (CaCO<sub>3</sub>)

## Carbon-negative products

- Polymers/plastics
- Building materials
- Glass
- Fertilizers

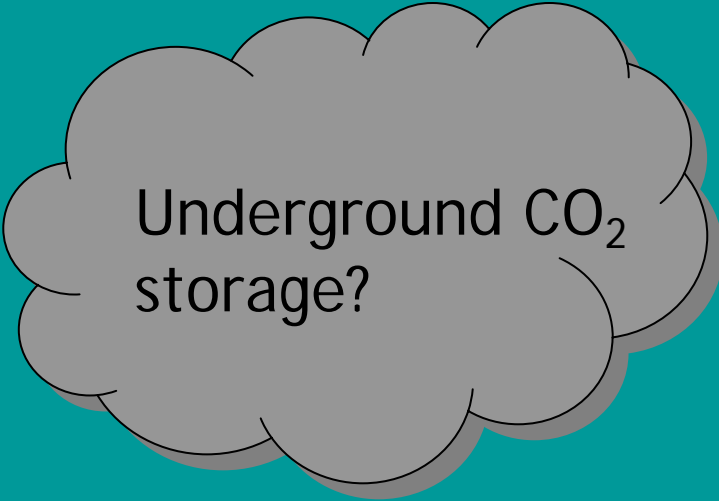
Per unit product value vs. costs



# Sequestering CO<sub>2</sub>

Safe, natural storage vs. an expensive underground gamble

## New Sky vs. The Competition



Underground CO<sub>2</sub>  
storage?

Traditional carbon capture and sequestration (CCS) strategies are unproven, expensive and certain to encounter public resistance.



NSE's CO<sub>2</sub> capture process creates sodium bicarbonate, a safe, carbon negative commodity. It and products made from it have large global markets.

Volume ratio of CO<sub>2</sub> to NaHCO<sub>3</sub>: 560:1

# Trapping a ton of carbon dioxide profitably

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## Costs:

- |                  |         |               |
|------------------|---------|---------------|
| • Energy input   | \$105   | <b>-\$249</b> |
| • Sodium sulfate | \$144*^ |               |

## Revenues:

- |   |         |                 |
|---|---------|-----------------|
| • Hydrogen                                    | \$84*   |                 |
| • Oxygen                                      | \$23*   | <b>+ \$1495</b> |
| • Acid  | \$316*  |                 |
| • NaHCO <sub>3</sub> (1 ton CO <sub>2</sub> ) | \$1072* |                 |

Total: **+ \$1246**

\* Bulk prices,  
October 2008

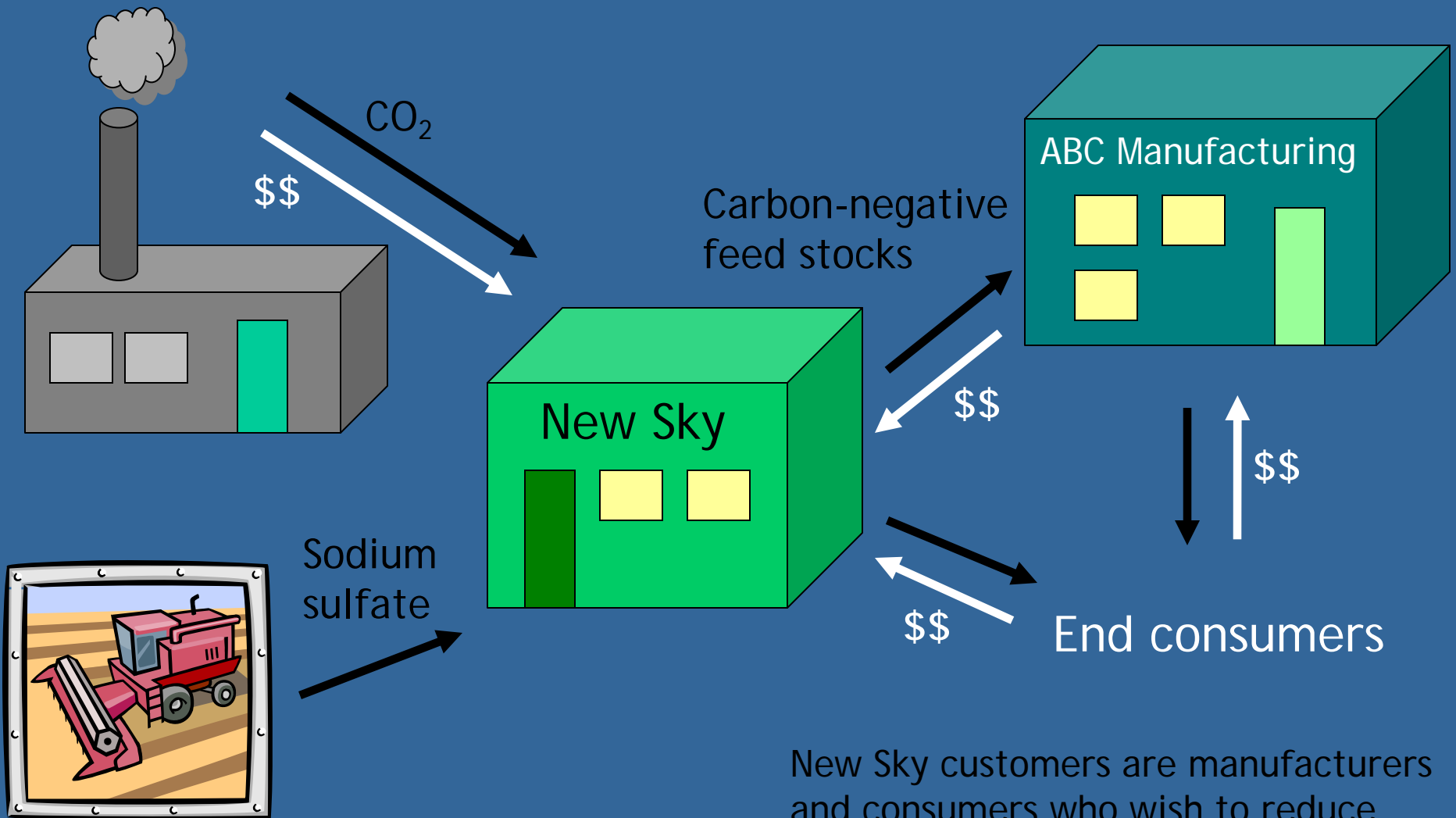
^ Waste salt widely  
available at no cost

NSE technology makes trapping a ton of atmospheric CO<sub>2</sub> profitable, even using conservative cost and energy assumptions.

Suppliers

# Business Model

Customers



New Sky suppliers are industries that produce CO<sub>2</sub> or waste salts

New Sky customers are manufacturers and consumers who wish to reduce their carbon footprints.