Global Thermostat

World's Top 10
Most Innovative Company
- Fast Company Magazine

OPPORTUNITY

1. GT has developed a proprietary carbon dioxide (CO_2) capture process, which produces **high purity CO_2 from ambient air**; GT's process is **protected by 17 issued patents in 147 countries**
2. GT offers lowest cost CO_2 which is also "**carbon negative**", in that CO_2 is removed from the air
3. GT units come **pre-manufactured in 40ft shipping containers** and do not require any site clearing or preparation, they are **fully scalable from 4,000 tons/year to +100,000 tons/year** depending on customer requirements
4. Disruptive CO_2 production economics, **2 - 3 year capex payback**
5. GT's technology is particularly well suited for use in **various industrial processes** (e.g. for **mineralized concrete**, **algae-biofuels, water desalinization**, etc.) **agricultural purposes** (**greenhouses**, etc.) and many others

WHY GLOBAL THERMOSTAT?

LOW COST CO_2

GT's efficient units capture CO_2 **directly from the air** at low cost. The plants simultaneously **reduce atmospheric pollution and fulfill unmet industrial demand**

MODULAR

A **disruptive, scalable, and convenient** way to profitably capture and repurpose atmospheric CO_2

RELIABLE

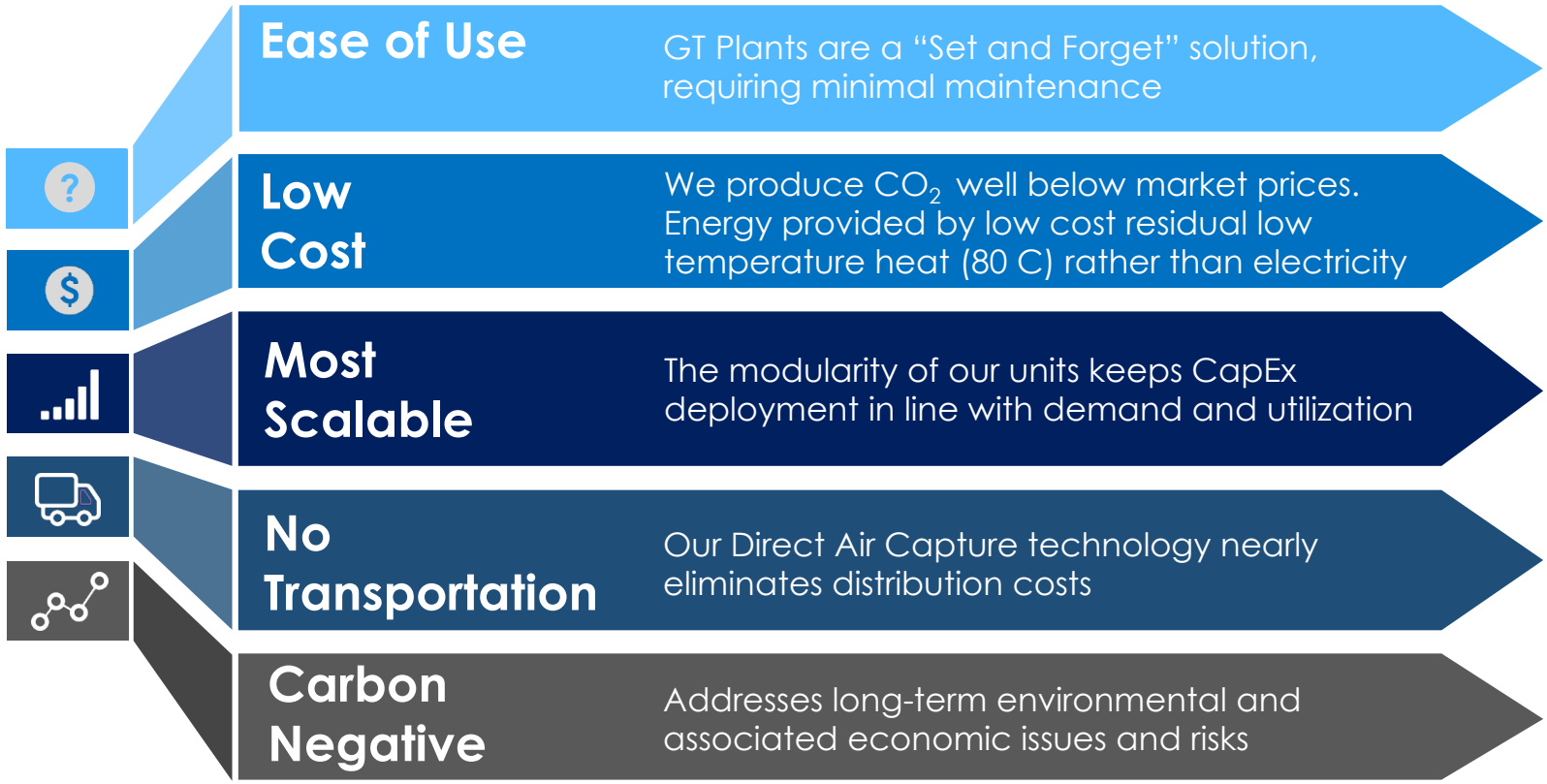
GT plants require minimal maintenance, operate autonomously and achieve availability factors of +90%

COMMERCIALIZING NOW

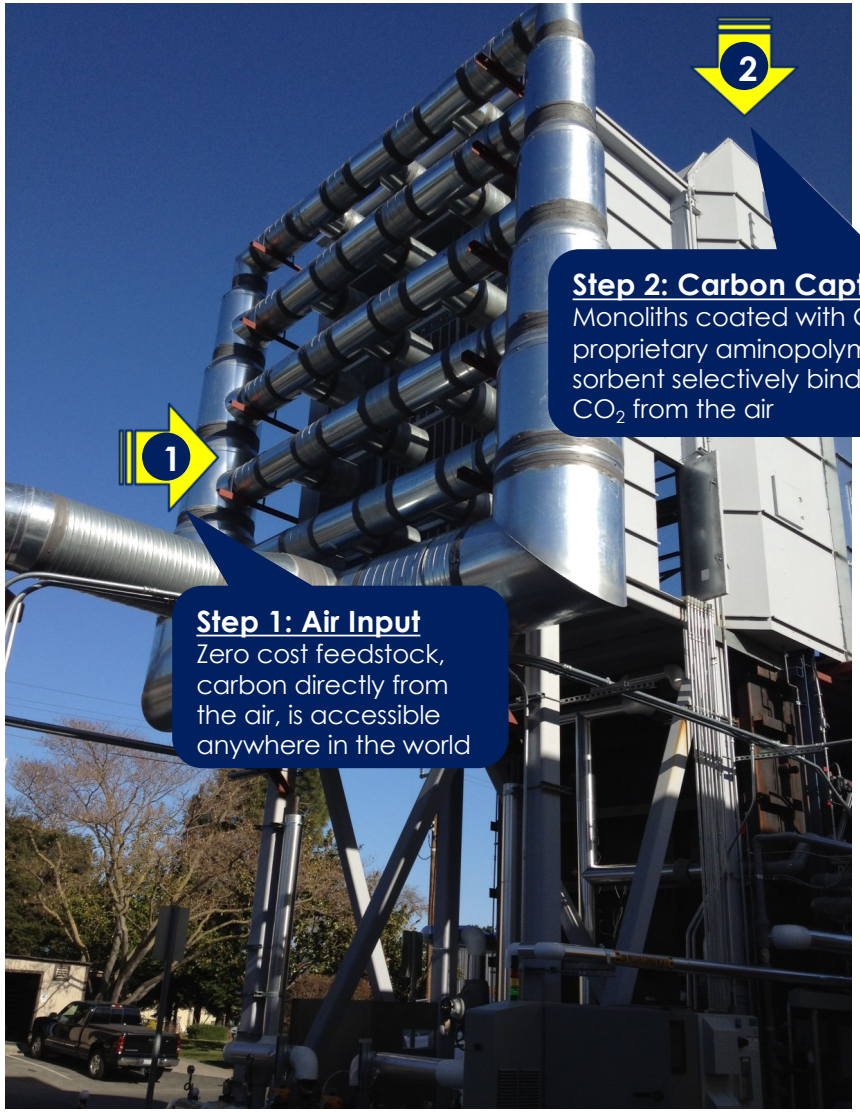
GT has begun commercialization strategy and customer sales

COMMERCIAL VALUE PROPOSITION

Reliable, lowest cost CO_2 available anytime, anywhere in the world



HOW IT WORKS


1
2
Step 1: Air Input
Zero cost feedstock, carbon directly from the air, is accessible anywhere in the world
Step 2: Carbon Capture
Monoliths coated with GT's proprietary aminopolymer sorbent selectively bind CO_2 from the air

3
4
Step 4: Heat Transfer
Two regeneration chambers operating 50% out of phase transfer heat back and forth to reduce sensible heat requirement by half
Step 3: Regeneration
Pure CO_2 is released by 85° - 90°C steam and the sorbent is regenerated

CONTACT

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