

Standard Carbon converts hydrocarbon utilities into clean power providers, increasing energy investment and buildout while securing power reliability and pricing.

Achievements

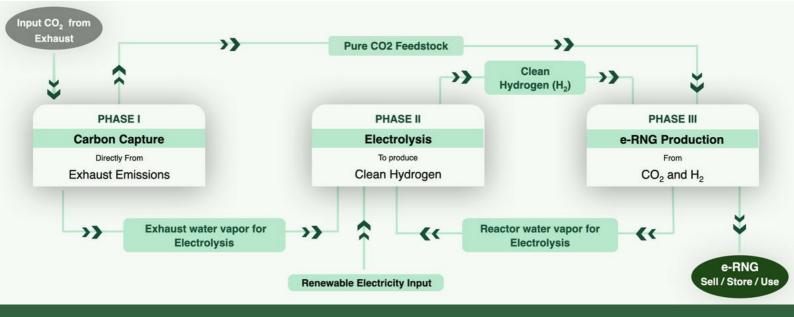
Clean Fuel Supply: The **Carbon Bridge** consumes intermittent renewable electricity, creating renewable natural gas (e-RNG) as the off-take product.

Decarbonization: Capturing and converting CO2 emissions into carbon-neutral pipeline-grade natural gas (e-RNG) is a cost-efficient alternative to CO2 sequestration.

Standard Carbon's 3-phase process - Carbon Capture, Electrolysis, and e-RNG Reactor - is customizable with a Standard or Large CO2 Absorption pack depending on the project demands.

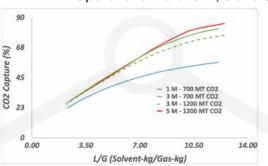
Height of CO2 Absorption Pack:		
	Temperature Range [C]	
Combustion Exhaust Gas Input	Uptime [Hrs/Day]	
	Carbon Dioxide Content [%mass]	
	Flow Capacity [kg/hr]	
	Minimum Carbon Capture [%]	
Power Consumption	Peripherals [V Ph A]	
	Electrolyzer Daily Operating Hours	
	Electrolyzer [MW]	
	Electrolyzer [V Ph A]	
	Electrolyzer Efficiency [%]	
Value Stream	Carbon Capture [Tonnes/yr]	
	Natural Gas Production [MMBtu/Yr]	
	Natural Gas Output Purity [%mass - CH4]	
Efficiency	Thermal [LHV of CH4-output / Electricity-input]	
	Methanation [CH4-output / CO2-input] (moles)	
Dimensions	Shell	
	Length [m]	
	Width [m]	
	Height [m]	
Water Consumption	pH Range	
	Max Conductivity [mS/cm]	
	Max Total Dissolved Solids [ppm]	
	Flow Rate [cum/day]	
Noise Rating	Indoor/Outdoor [dBA]	

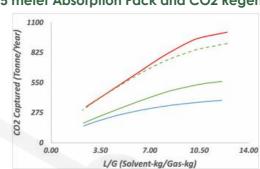
1 Meter	3 Meters			
0 - 1,000				
24				
7				
700	700	1200		
50 - 75	50 - 95	50 - 75		
480 3 450				
5 - 12	6 - 12	12 - 24		
1.2				
480 3 2500				
70 - 75				
300 - 550	350 - 650	550 - 1100		
5900 - 10,800	6,850 - 12,750	10,800 - 21,600		
95				
60%				
95%				
Standard 40 Foot Shipping Container				
12.03				
2.35				
2.39				
5 to 10				
23				
15,000				
2 (CC 400 Tonne/yr) 2.5 (CC 500 Tonne/yr)				
45 / 75				

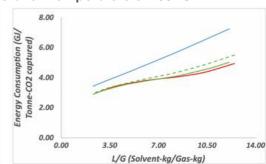


COMPLETE PROCESS FLOW DIAGRAM

Operational Data for 1, 3 and 5 meter Absorption Pack and CO2 Regeneration Temperature of 100° C







Operational Data for 1, 3 and 5 meter Absorption Pack and CO2 Regeneration Temperature of 110° C

