

# Advantages of Vertical Farming



Maximum  
crop yield



Lesser space  
for crops



Reduces  
transportation  
cost



Food  
grows  
organically



Uses  
minimal  
water



Cheaper  
in the long  
run

	Vertical Farming	Traditional Farming
<b>Land Use</b>	Small space friendly, vertical farming	Large areas of farmland, horizontal farming
<b>Water Use</b>	Fewer water resources are used	Water use can vary, but generally, is higher
<b>Energy Use</b>	Often high energy use (but renewable)	Moderate energy use (if well managed)
<b>GHG Emissions</b>	Relatively low GHG emissions (with the right strategies)	Relatively high GHG emissions
<b>Pollution and Ecosystem</b>	Minimal pollution and ecosystem degradation	Most farming damages the environment
<b>Supply Chains</b>	Decentralized food production system	Centralized food production system

Vertical Farming

Good, but

Energy Consumption

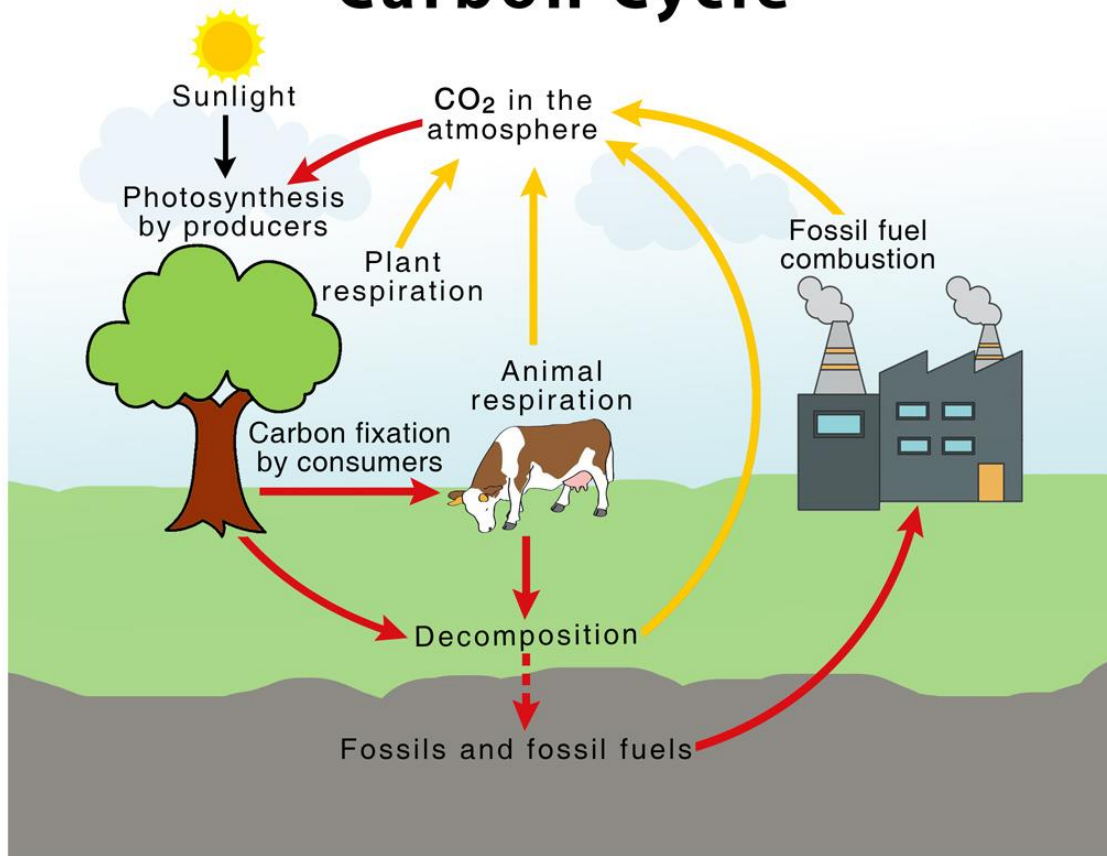
High

Solution?

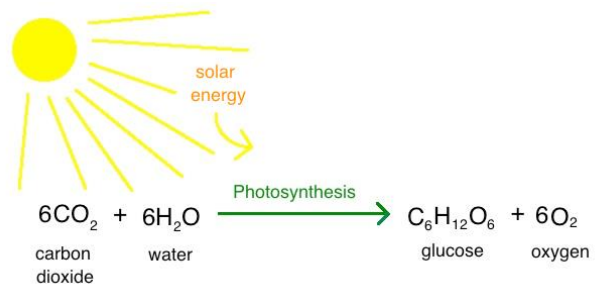
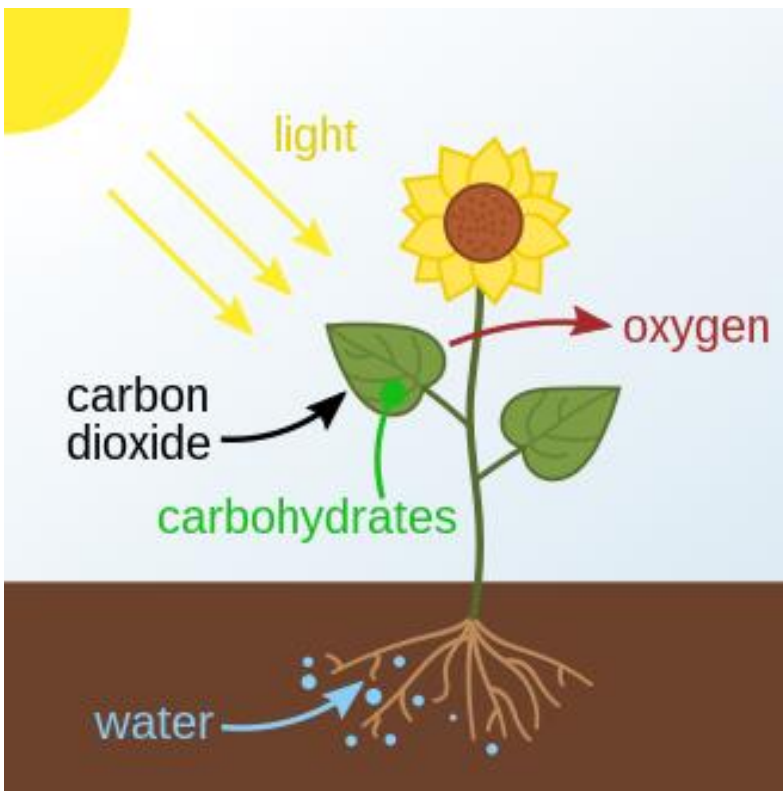
Partnership



# Carbon Cycle



# Photosynthesis cycle







# Partnership

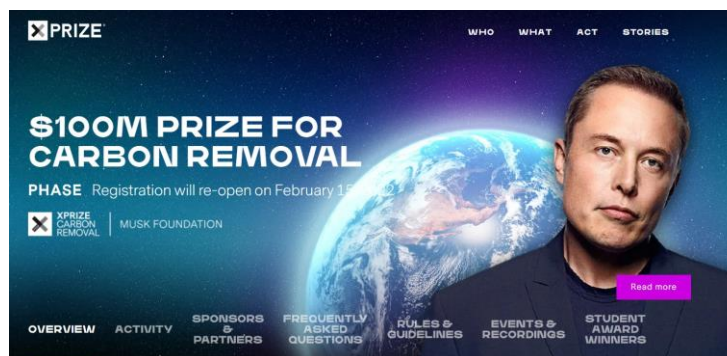


**Energy  
Consumption**



**GHG  
Emissions**

Inspired by



# Exploration

## Carbon Capture in Vertical Farming

