

Innovative climate solutions


AI Powered Hydroponic Vertical gardens fight fires



Air Quality Hazards



What is air pollution?



- Presence of harmful substances in the air
- Solid particles, liquid droplets, or gases
- Common pollutants include carbon monoxide, sulfur dioxide, nitrogen oxides, and particulate matter.

Effects of Air Pollution on Health

- Respiratory diseases like asthma and bronchitis
- Heart conditions and strokes
- Increased risk of lung cancer
- Short-term effects include irritation of eyes, nose, and throat







| Values of Index | Description of Air Quality |
|-----------------|---|
| 0 to 50 | Air quality is satisfactory, and air pollution poses little or no risk. |
| 51 to 100 | Air quality is acceptable. However, there may be a risk for some people, particularly sensitive to air pollution. |
| 101 to 150 | Members of sensitive groups may experience health effects. The general public is less likely to be affected. |
| 151 to 200 | Some members of the general public may experience health effects; members of sensitive groups may experience more serious health effects. |
| 201 to 300 | Health alert: The risk of health effects is increased for everyone. |
| 301 and higher | Health warning of emergency conditions: everyone is more likely to be affected. |

Climate Change Threatens Forests

Climate change is causing hotter, drier conditions that fuel increasingly destructive forest fires. Rising global temperatures lead to longer wildfire seasons with more fires that burn with greater intensity. This poses serious risks to forest ecosystems and the communities that depend on them.

Vertical gardens may offer sustainable solutions



AI Optimizes Vertical Garden Growth

An artificial intelligence system monitors various conditions within a vertical hydroponic garden such as temperature, humidity, nutrient levels, and plant growth rates. It analyzes this data to precisely control the LED lights, irrigation, and nutrient delivery to maximize yields while minimizing resource usage.



Vertical Gardens Thrive with AI Assistance

Yield increased 30% in first year

Water usage reduced 15% versus traditional farms

Zero pesticides required for healthy plants

Local air quality improved 10% after 1 year

Fire prevention efforts bolstered by consistent food source

Community embraces sustainable solution to growing needs



Sustainable Farming Solutions

Vertical gardens use less water and space while producing crops. By stacking plants on walls or structures, more food can be grown in urban areas with limited land. This helps address issues of land availability and transportation of goods.

Automated systems monitor soil conditions, provide water and nutrients as needed. Plants receive exactly what they require for optimal growth. Less waste is produced and water conservation is maximized. Controlled environments mitigate impacts of weather, pests and disease.



IT TAKES

EVERYONE

WORKING TOGETHER

ON AWARENESS

TO STOP THIS PROBLEM!

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