

# GEOAIRCON

Ultra Efficient Thermal Comfort using the Ground.

Pioneers of Low Cost Shallow Geothermal Integration

[www.GeoAirCon.com](http://www.GeoAirCon.com)

Supported by:

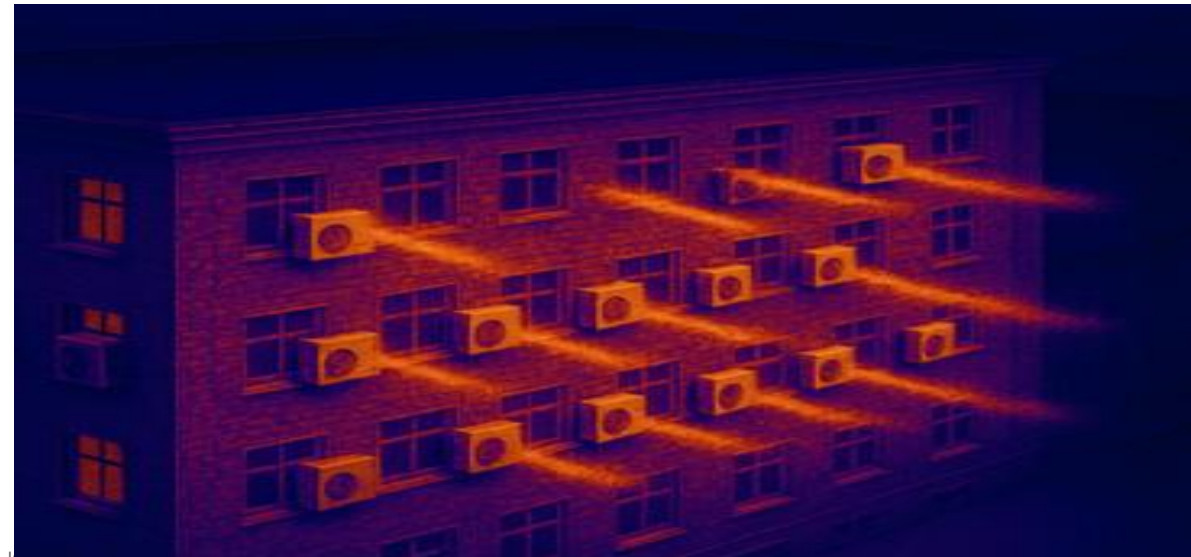
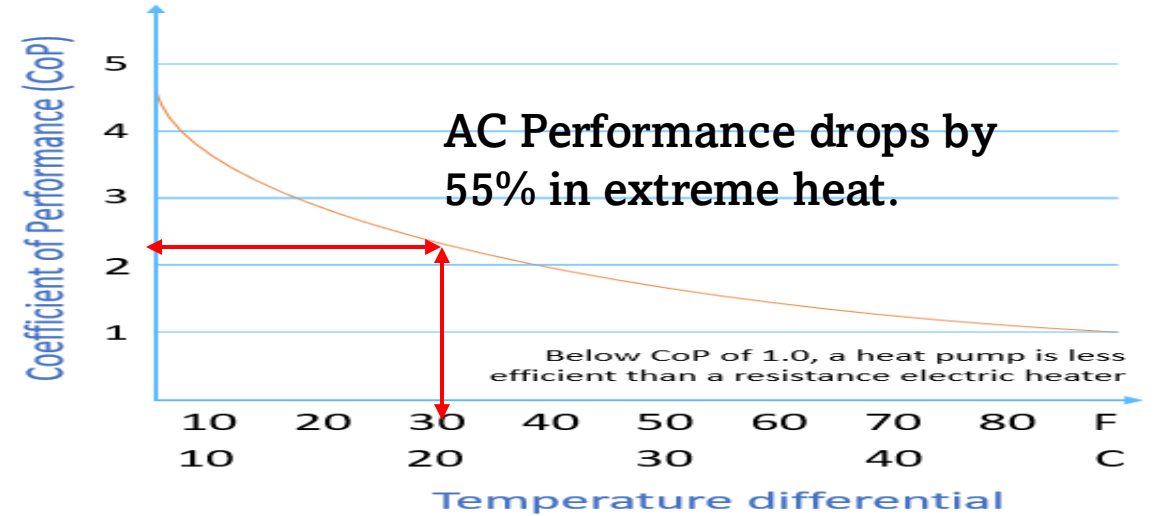


ERNAL. This information is accessible to ADB Management and Staff. It may be shared outside ADB with appropriate permission.

# PROBLEM

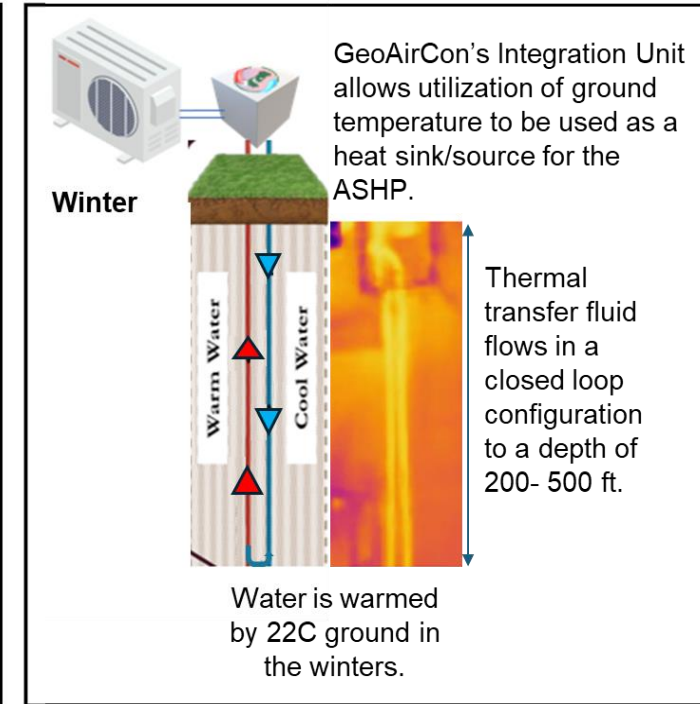
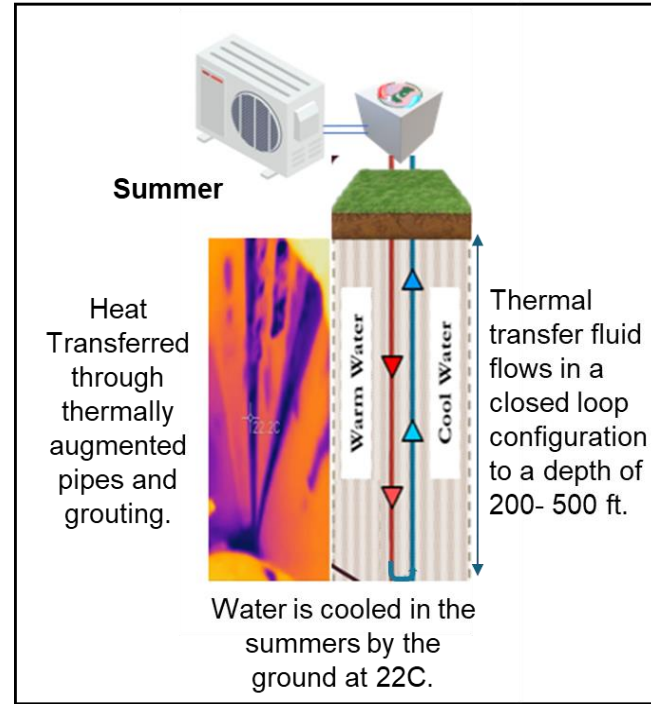
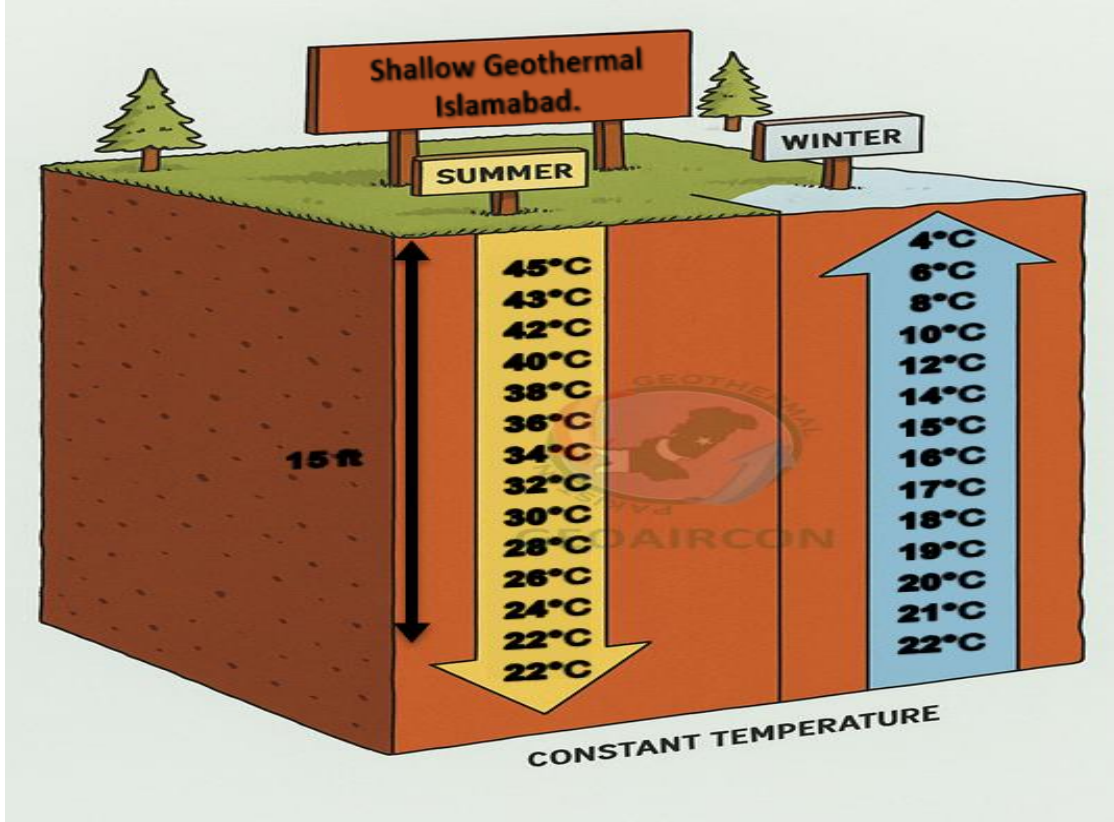
## Extreme Climate Events, Inefficient Air-Conditioning

Global AC demand is projected to **triple (3X) by 2050**. This means **10 new ACs every second for next 30 years**, IEA.

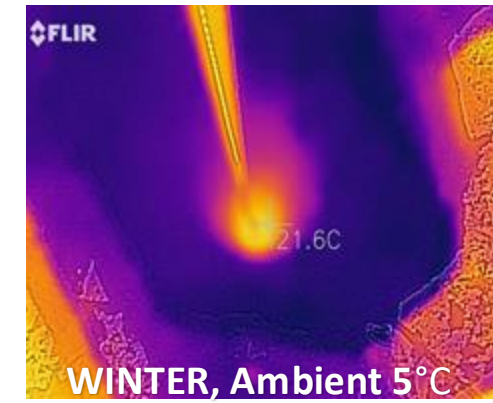
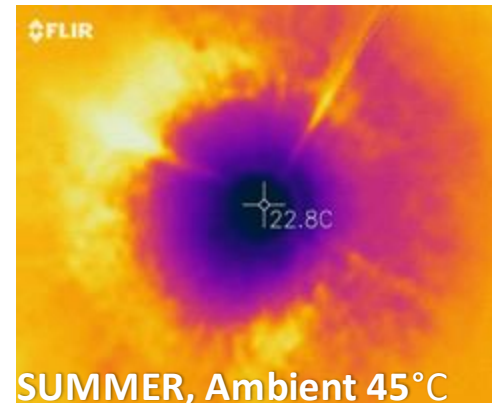


# SOLUTION

## GeoAirCon's Innovative low cost Geothermal.



Underground becomes stable after 12-15ft, Bishkek has underground temp of around 12°C, Increasing Cooling Efficiency further and is also suitable for Efficient heating.



# SOLUTION

## GeoAirCon – Sustainable From the Ground Up.

GeoAircon's Innovative High Flow Dual Heat Exchange system.  
Can be used as a Direct System or coupled with existing AC units.

**UPTO 55% LESS ELECTRICITY BILLS / EMISSIONS.**  
**10X CHEAPER THAN CONVENTIONAL GSHP.**



Requires low-cost small dia bores or already available water bores.

**GeoAirCon's Integrated Variant installed at Ministry of Energy, NEECA Office, Islamabad**

# Beneficiaries / Sectors

## Housing/Commercial:

The Solution is an excellent match for retrofitting existing compressor-based HVAC system used in commercial /retail environments



## Industrial/Institutes:

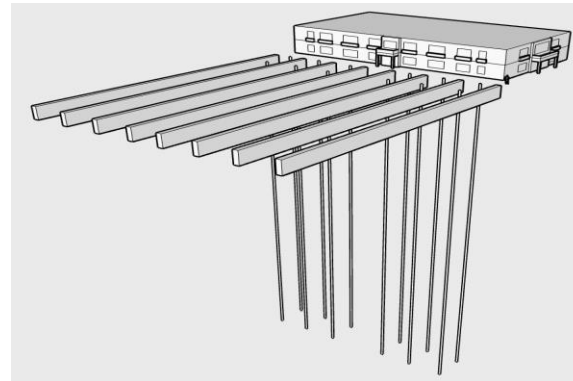
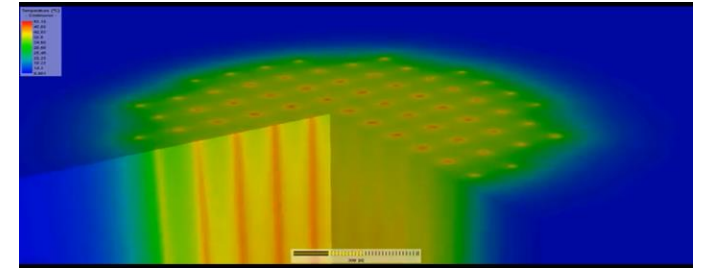
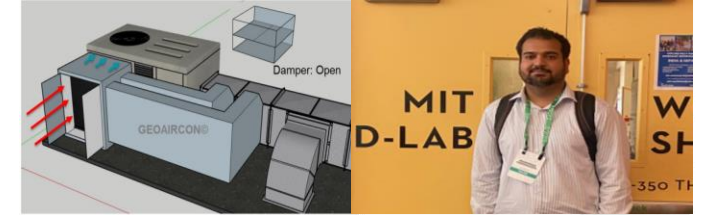
Replace Cooling tower as their effectiveness decreases due to increasing wet bulb temperatures and as water scarcity increases.



## Agricultural:

The Solution provides climate resilience to devastated Agri sector such as poultry farmers facing livestock wipeouts due to weather extremes and making Cold storages more efficient.

# Current Status/ Traction.



R&D MVP  
-2022

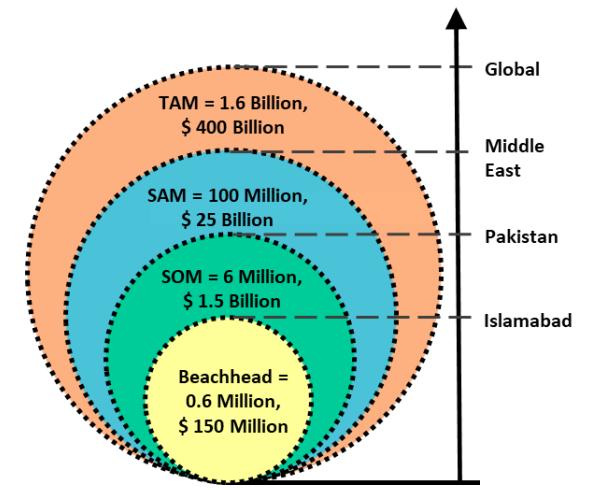
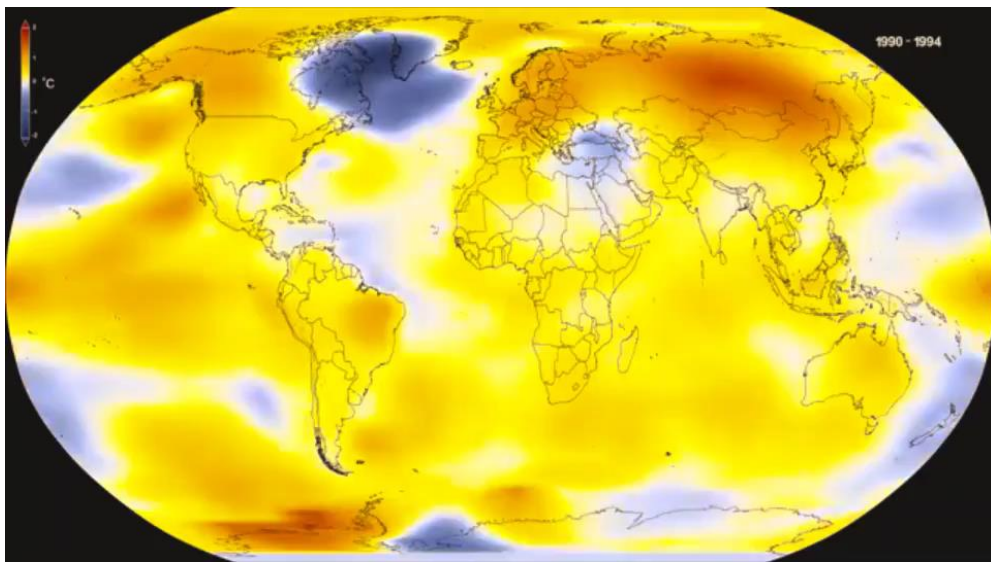
Pilot Project  
-2023

Commercial/Industrial  
Projects 2024-25

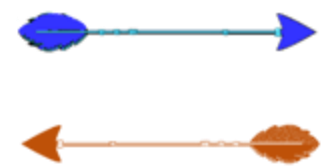
Advanced  
Projects-2025/26

# Business Model

## And market size.



GeoAirCon®  
Heat Exchangers



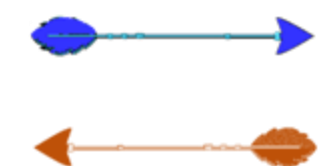
Rs. 75,000/\$270 per  
Ton of Cooling

### B2B2C Stream



Dealerships/  
Micro-Entrepreneurs

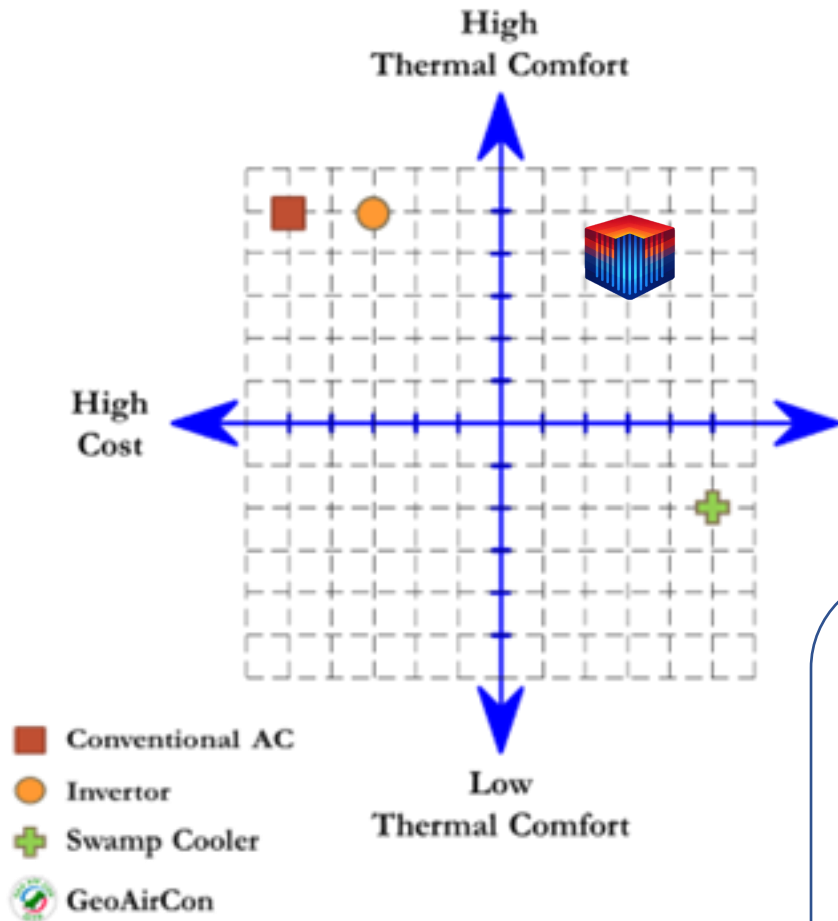
Supply &  
Fitting



Rs. 90,000/\$300 per  
Ton of Cooling.  
+ \$100 -300 if new bore  
required.



Commercial,  
Industry, Agriculture  
and houses



### 1. Swamp / Evaporative Coolers



*Effective only in hot & dry weather.  
Consume precious clean water.  
High maintenance.  
No heating. Muggy*

### 2. Inverter AC:

*COP of 2-3.5, highly inefficient when outdoor temperatures rises.  
Contribute to urban heat.*

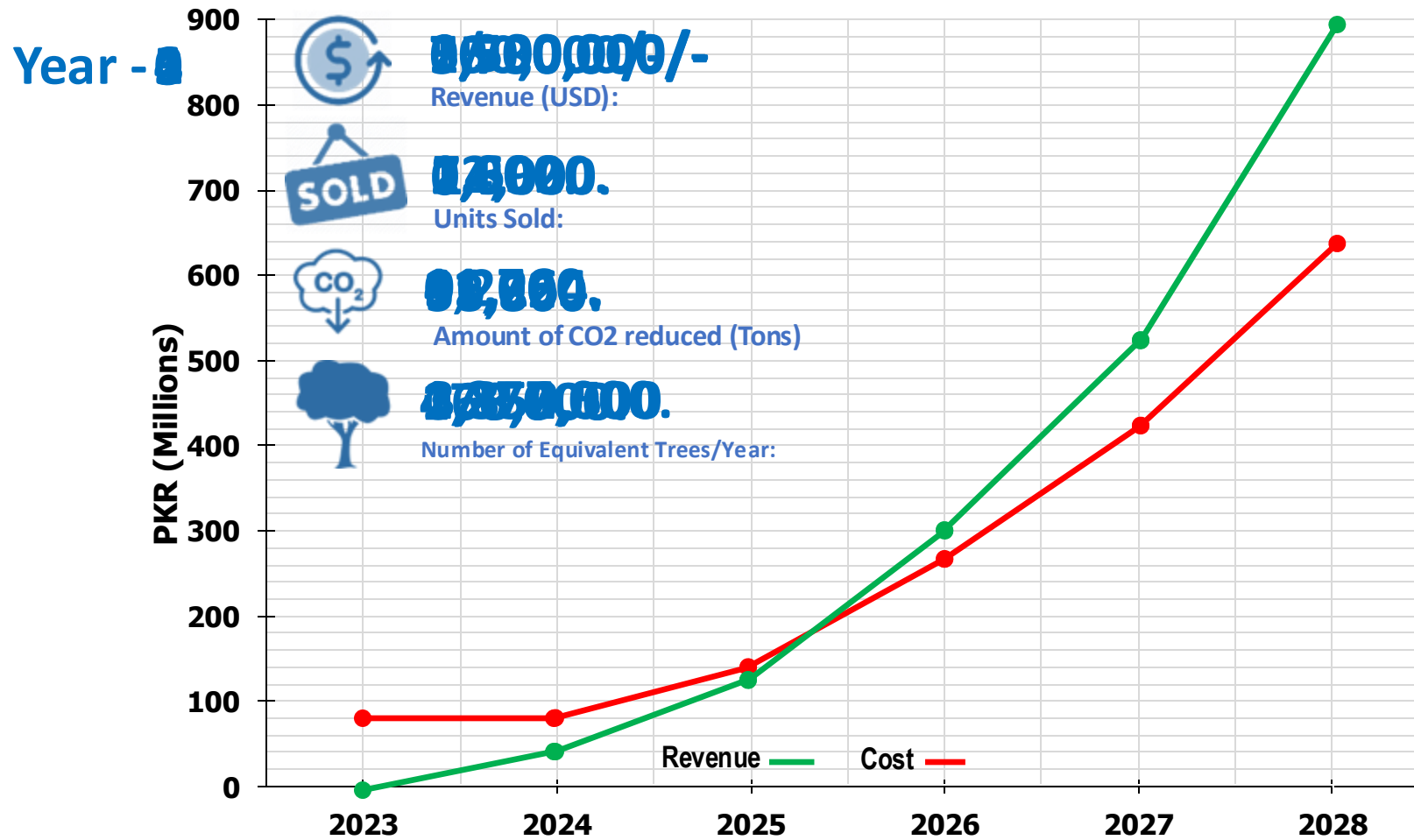


**GeoAirCon is an all-season year-round solution**

### • GeoAirCon Positioning:

- First Movers Advantage in the region, with years of R&D
- Fulfill requirements of a huge market gap for affordable thermal comfort.
- While the worldwide Geothermal Industry focuses on central heating,
- GeoAirCon is positioned for cooling & heating **1/2/4 ton** market segment
- Added chapter on Geothermal in **Energy Conservation Building Code**<sub>8</sub>

# IMPACT/SCALE



**Hassamuddin**  
**CEO**



10 years+ Clean Tech Innovation Experience, Engineering Background.

**Shehar Bano**  
**CMO**



Business Development Executive with 7yrs + experience.

**Dr. Awais Butt**  
**CTO**



Geothermal Expert, Phd from University of Colorado, specialization in enhanced systems

**Ali Khan**  
**COO**



Fluid Dynamics Expertise Experienced HVAC Professional

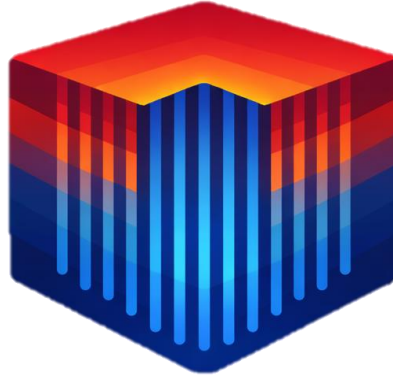
**Katie Morgan**  
**Advisor**



Climate Lead – MIT SOLVE Climate Innovation Expertise.

### **Mission:**

**Build Climate Resilience and enhance adaptability.  
Enable Affordable and Sustainable thermal comfort for the masses.**




**THANKYOU**

**For Investments, Queries & Suggestions:**

**[Hassam@GeoAirCon.com](mailto:Hassam@GeoAirCon.com)**

**[www.GeoAirCon.com](http://www.GeoAirCon.com)**

 **[Sales@geoaircon.com](mailto:Sales@geoaircon.com)**

 **+92-308-7891940**

 **[/GeoAirCon](https://www.facebook.com/GeoAirCon)**

 **59-A, Rawat Industrial Area, Islamabad, Pakistan**

