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Bio Climatic Chart

Dry Bulb Temperature (°C) - Hourly
ABU DHABI_ARE
1 JAN 1:00 - 31 DEC 24:00

Wind Speed (m/s) - Hourly
ABU DHABI_ARE
1 JAN 1:00 - 31 DEC 24:00

Relative Humidity (%) - Hourly
ABU DHABI_ARE
1 JAN 1:00 - 31 DEC 24:00

Radiation Analysis

The Design Process

Orientation of the site in the direction of northwest to southeast
Placing building below ground level due to lower thermal fluctuations in the depths of the soil and creating spaces for increasing social interactions
Use of the wind in the area by putting windbreakers in the building
Determine the height of the ceiling with a Solar envelope and specify a meters to 15 maximum height of avoid creating shadows on adjacent buildings

Ground Temperature

Monthly Average

Shaping the building shell and pointing out the supporting points based on the optimal site's visibility directions
Incorporating intelligent and rotatable Solar panels on the roof tile to maximize solar energy consumption
Rotation of the entry of windcatter to the wind direction of the area for better use of wind blowing and moving the wind inside the wind and cooling the building air with evaporative cooling

Final Design
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