**A. SOLAR**

A curved grid is calculated for maximum annual average radiation, a concentrator photovoltaic system is then placed on the grid, with one directional axis rotation tracker.

Panels are also placed on a rotating louver system covering the crossing bridge.

Each array has 4x4 panels and dimensions of 1.2 x 1.2 m. Each panel consists of a large mirror that is used to collect direct sunlight and then focus the reflected light onto a smaller secondary mirror. The secondary mirror then redirects the reflected light into a glass prism, channeling the sunlight onto a triple multi-junction photovoltaic chip.

System output is 1000 W/m².

The panels spread over an area of 3563 m² with an efficiency of 43%.

Estimated capacity of the solar system is 3563x0.43x1000x0.9 = 9.43 MW and an annual of 3442 MW.

**CONTEXT**

The vortex modules act as a rhythmic visual reference between the site and the surrounding locations.

**VORTEX ARRAY**

An array of 520 vortex systems spread across the edges of the primary and secondary boundaries of the project.

**B. WIND**

- Secondary mirror
- Kaleidoscopic rod
- Primary mirror
- Glass
- Rod
- Solar cell

Off-axis rays reflect to form a small focal point away from the center of the rod. The rays then reflect on the side of the rod to reach the cell.

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**ENERGY**

Each module has a capacity to produce 4 KW of energy. The estimated capacity is 1000x4KW= 2MW and an annual of 3442 MW.