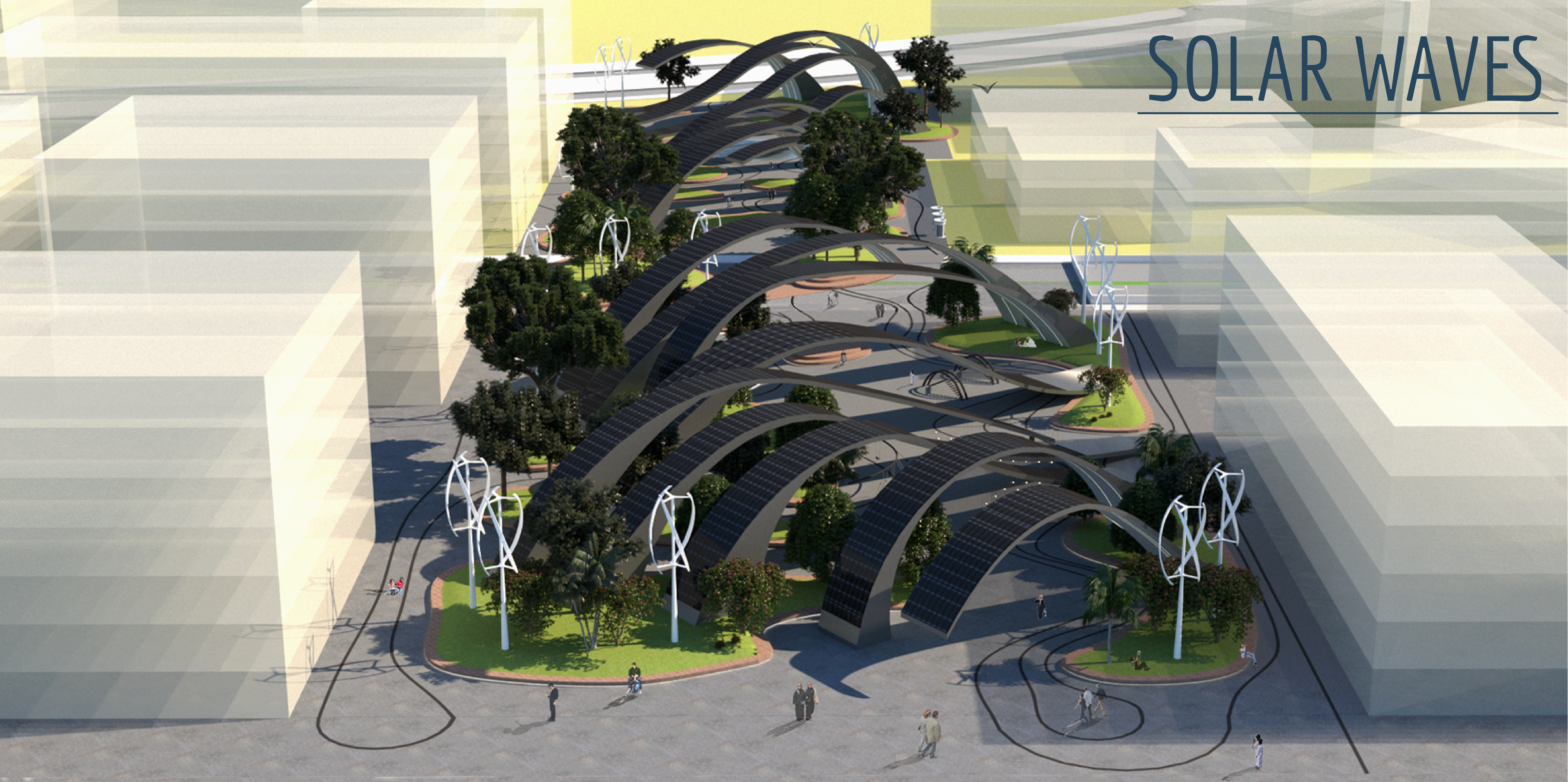


SOLAR WAVES



Proposal

Solar Waves proposes to supply the equivalent of energy consumption for 2340 households along with all Waves Park energy consumption using solar photovoltaic cells generators and Eolic turbines generators.

Those energy cells are fixed in metallic structure of curved surfaces extend all over the Waves Park, and were inspired by the ripples of the desert dunes, provide shade to the pedestrians, and are oriented north-south, capturing the best orientation to generate energy.

Much of the energy used comes from the structure itself, characterizing the energy transition that the contemporary architectural structures go through the 21st century. Solar Wave project shows the possibility of building a post-carbon environment based on existing technologies. The presence of abundant green areas, as well as its access, in addition to contact with water, provides spaces of quality and service of urban ecology for the citizens of Abu Dhabi.

Designed from a metal frame structure of recycled aluminum and surrounded by a membrane, Solar Wave provides lightness and slenderness. Photovoltaic cells close the

upper part of the waves, using the high solar incidence of the region as a primary source for the production of clean and renewable energy. Also in the field are wind turbines, which are positioned in some specific points, mimicking with landscaping.

Masterplan

Waves park proposes integration between spaces around it planned in city plan of Masdar, connecting people to public spaces, residential, institutional and open spaces. Roads between buildings were respected, also it was lowered the street that passes in the center of the ground to give continuity to the park, giving preference to pedestrians, who can circulate freely. The recessed street will give access to the shaded parking lot in the basement of the park, and access to the park with lifts.

The park will serve as an infrastructure that allows events to happen, bringing nature into the park, connecting people with green spaces and shaded water, fulfilling the special function of generating a public space for the inhabitants of Masdar City with leisure equipment, considering the local climate and its sunshine.

Our proposal for Masdar City in its conception of intelligent city and quality of life deserves a comfortable public space, well designed to be activated by people and their experiences.

