**Future in traditional**

Each culture is original, it is part of people, the way of thinking and the usual ideal state of life. Reflecting on the basic concept of a public park space, our team decided that the most important thing is creating a place where culture and innovative technologies, which over the years take root more and more in our lives, become a necessary condition for existence.

***Main idea***

The main idea of the designed landscape object was a hexagon, a geometric figure, often found in the art of the East. Thus, the entire territory of the park was naturally divided into hexagons so that the space in them formed a certain functional area, and the transition between them was the main pedestrian space. This part contains mainly the «traditional» component of the project.

A part responsible for the «future» in project is a canopy, which consists 937 pieces of hexagonal blocks (the area is 5.8m2 each) with solar batteries, capable of changing the degree and inclination around its axis, following the movement of the sun. Each such panel contains a «SilaSolar 300W 5BB» solar panel. The canopy allow people hide in it’s shadow from the sun or high temperature conditions at different times of the year in the city of Masdar. And the power generated by it is enough to provide lighting for the park at night, creating energy for use by water resources (fountains), and also for supplying energy to the city’s external power networks.

***Explanation***

The entire space of the park can be divided into two main parts relative to the road: the north-western part and the south-eastern part (closer to the city center).

The northwestern part of the recreation zone, the center of which is the largest hexagon, is the main buffer central space, an area with a contact fountain. Even in the spaces of two hexagons there are playgrounds (located in the shade of a shed): for little, middle-age and older children. On the other side of the central square, an active physical recreation area for adults with outdoor exercise equipment (also located under a canopy). In the remaining “free” hexagons were planted and individual gazebos were equipped in the center of the space of a hexagon.

Southeast part of the park is quiet and cultural recreation zone. There is also a central square with a fountain identical to the first one, which creates a sense of integrity. There are a hexagon covered with lawn-picnic area on the grass, an amphitheater. In the remaining “free” hexagons also were planted and individual gazebos were equipped in the center of the space.

The input groups of each of the two zones are the same (the illusion of continuity and specularity of space).

There is a cycle path along the right side of the entire park area.

***Materials***

Walkway coverings: polymer sandstone paving slabs made from recycled plastics. Such material has the following positive aspects:

• environmental friendliness, under the influence of high temperatures does not emit harmful volatile substances;

• strength, thanks to high-quality binders, the tile is not deformed during transportation and can withstand heavy loads; Plastic tiles for garden paths

• durability, average service life of more than 50 years;

• ease of use, it can be washed, if necessary, it can be removed without problems, and then re-put;

• anti-skid, provides a strong bond with shoes;

• tile does not lose its rich color for many years.

Coverage of children's playgrounds: it is possible to use energy technologies, for example, as The PAVEGEN V3 system, energy generated from physical and mechanical effects on it: Power rating: 5 Watts continuous power from footsteps. <http://www.pavegen.com/product>

***Solar panels***

Used in the design of the canopy Monocrystalline solar battery SilaSolar 300Wh (5BB). In the production process, only the highest quality materials and components of the first quality category Grade A. are used.

The size of the battery is 992 \* 1956 mm, area = 1.94m2

The panel costs 168 dollars.

Under conditions of minimal sunshine, the performance of the entire canopy (937 panels) per day will be 2811 kWh.

Annual 1,026 MWh

<https://e-solarpower.ru/solar/solar-panels/mono-panel/solnechnaya-batareya-silasolar-300vt-5bb/>

***Ecosystem. Impact on the environment.***

1. Juníperus sabína - Cossack Juniper:

• enriches air with oxygen and other useful substances.

• Phytoncides are capable of killing many germs around.

• differs in high shade tolerance and drought resistance

• amazing smell

2. Yúcca

3. Spiraea gray- Spiraéa cinérea:

• Unpretentious to care (watering, fertilizing fertilizer, shearing).

• The rapid growth and duration of abundant, picturesque flowering.

• Sanitary and hygienic role for the environment, thanks to the phytoncides that the plant produces.

4. Elimus, wheatgrass -Élymus:

• unpretentious and high resilience

• drought resistant

5. Yucca rostrata:

• evergreen

• can grow where there is no watering or poor soil

6. Catalpa

7. Támarix

* undemanding to soil
* salt tolerant.