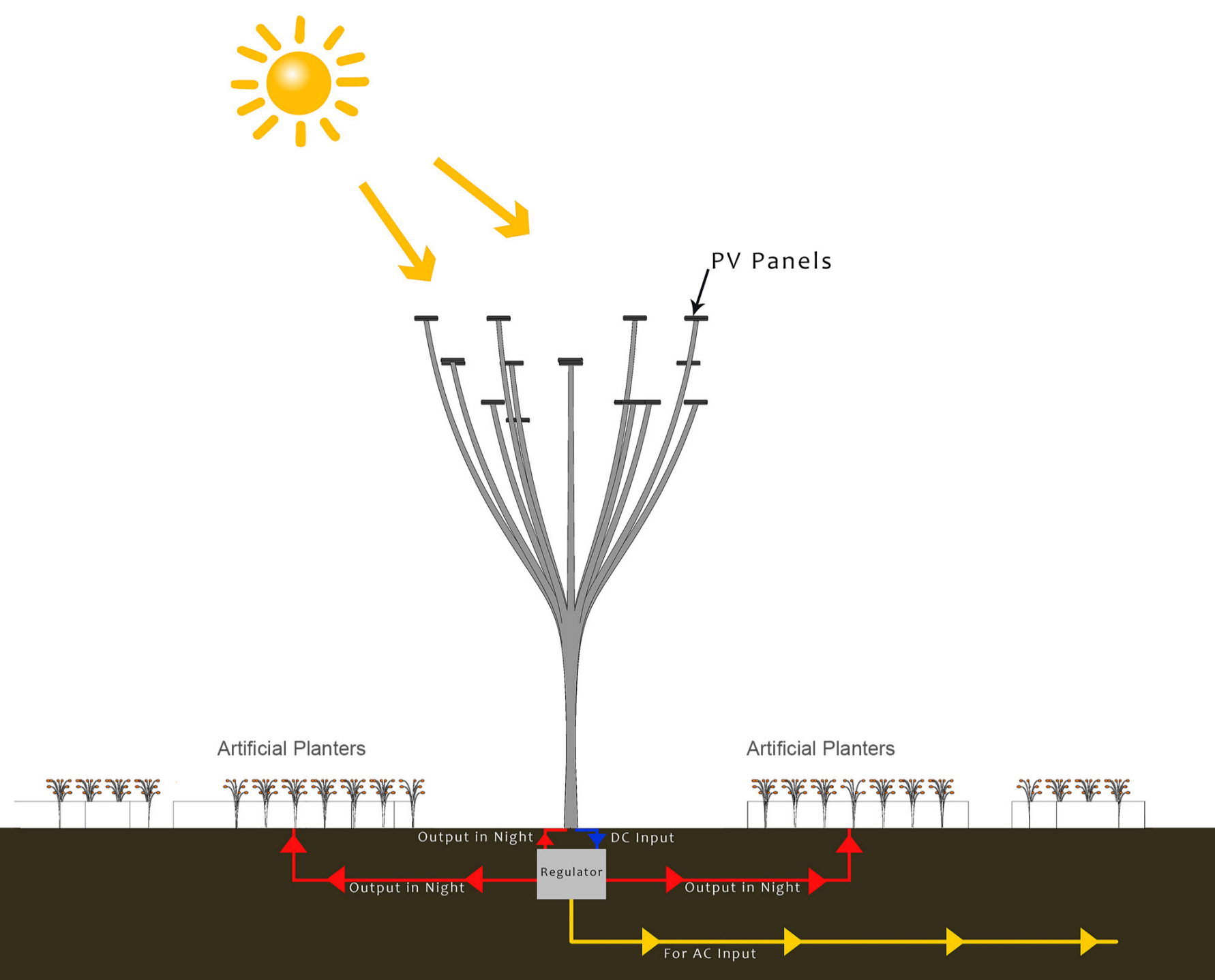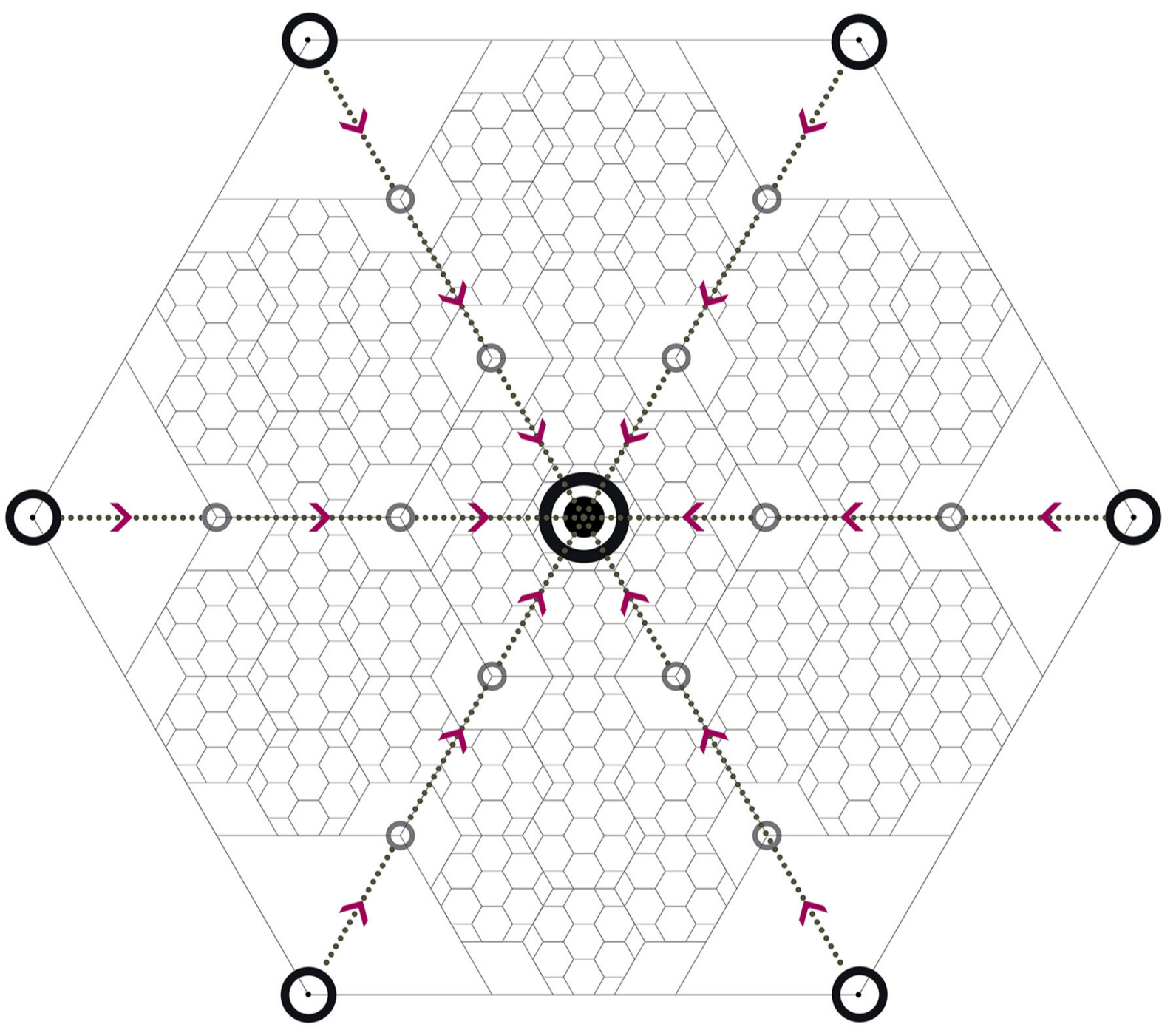# THE SOLAR URBAN PARK

The Solar Tree

The vegetation is depleting throughout the world and in places like Abu Dhabi where majority of land is covered with sand, trees are nowhere to be seen. The 'solar trees prototype' draws inspiration from the dead trees with no leaves yet being useful to convert solar energy into power. There are in total 60 trees on the site and each tree has 20 PV panel on the top.

The PV panel on the tree captures the solar energy and store it in the roots (base). From there it is distributed to nearby artificial planters for night glow and the remaining is sent to the AC generator.

Power Distribuation

Each hexagon has six nodal vertex and each vertex has a solar tree placed on it. Whatever power is generated by these trees is sent to the main core storage batteries in the center of hexagon. From there the power is collectively send to the AC Generator. The total amount of energy that is expected to be generated is 8000MWh per year from all the combined trees.

Artificial Planters

The Artificial Planters together acts as a tulip garden from Netherlands. This proposal creates a garden atmosphere by providing flowers in the park at every hexagonal design. The artificial flowers glow in the night and convert the garden into a night park where people can walk around and relax.

Reference Picture

Proposed design

Elevation

Artificial Planters   Solar Tree   Gazebo   Solar Tree