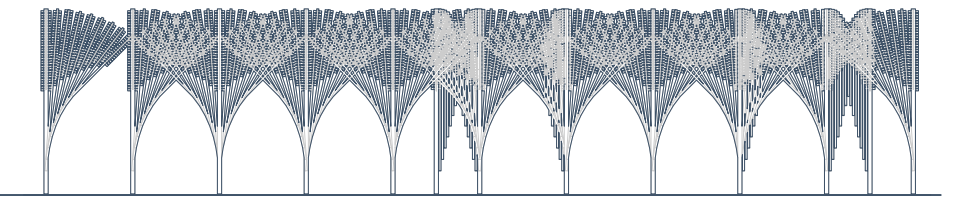


Masdar Piezo Oasis

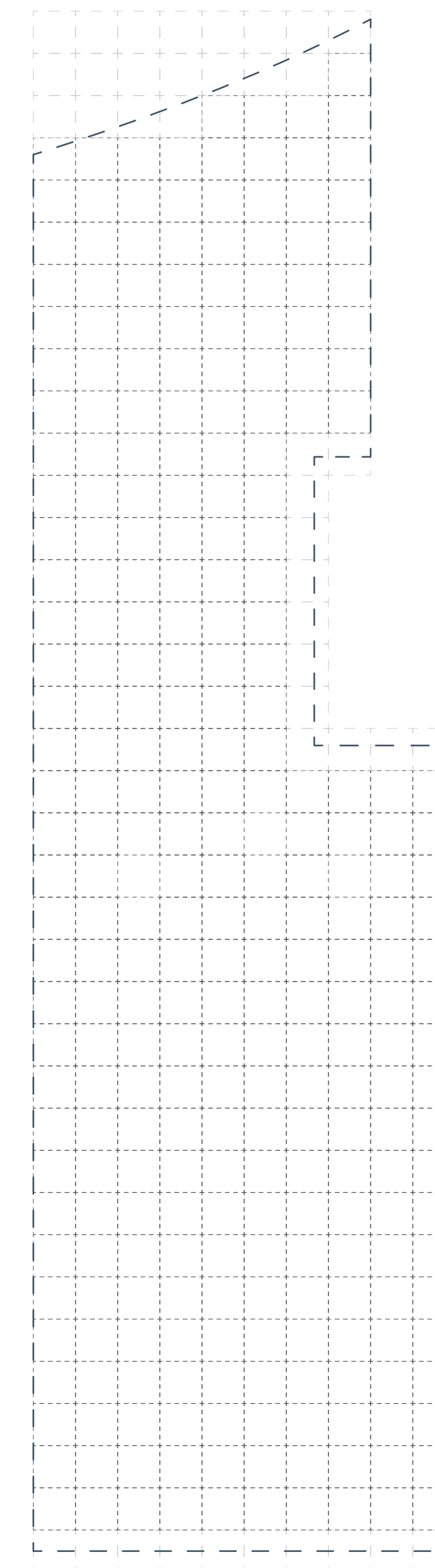


In a barren landscape springs a cluster of trees, leaves and fronds swaying in the wind. Oases are a source of life-giving resources, places of shade and respite, opportunities for calm and contemplation.

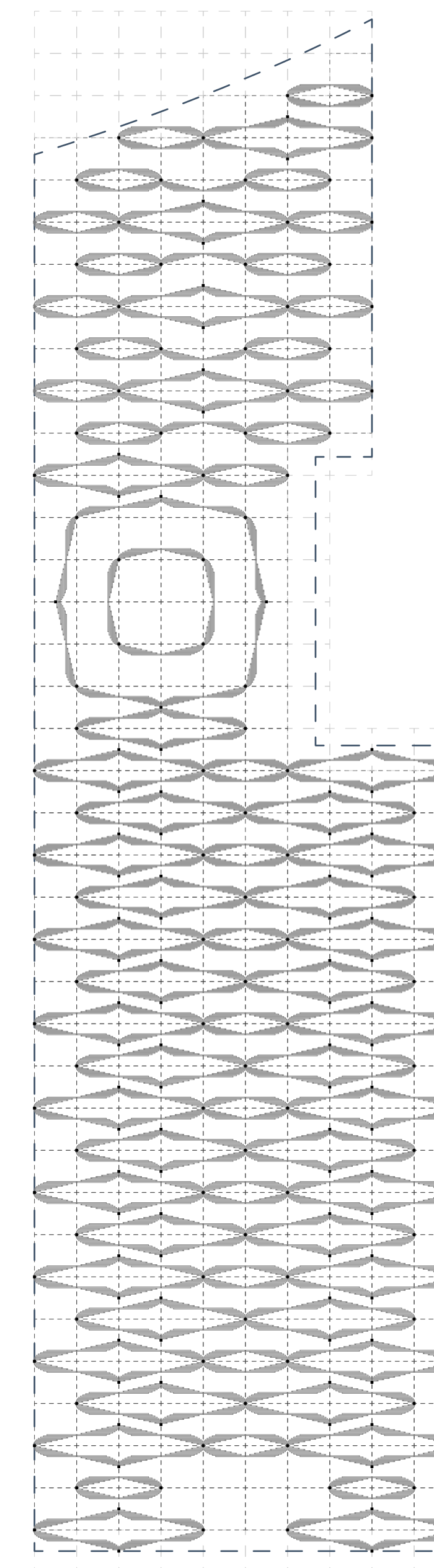
This oasis in Masdar converts a site in Masdar into an oasis that provides energy. Shaded by the branches and leaves, the ground plane echoes traditional gardens while overhead piezo harvesters gather energy from the movement of air. This is a piezo oasis, translating the natural form into an urban experience with the aid of piezo technology.

The installation consists of 207 trees, each square section branches on which leaves are on all four sides. Each leaf is composed of three piezoceramic harvesters that oscillate in the wind, generating energy. The design has been tested as a proof of concept and shown to deliver adequate outputs.

01
Grid Layout



02
Column and Branch



03
Water layout

