

## 02 CLOUD FIELD USER-FRIENDLY INFLATABLE SOLAR PARK

The patterning of the clouds is a recursive subdivision based on a triangular mesh. The flat pattern can be obtained easily with parametric design software and the ETFE sheets can be digitally fabricated with laser cutting. The resulting pattern alludes to the rich Islamic geometric ornamentation. The combination of translucent, transparent and opaque OPV cells create astonishing shading patterns, inviting users to contemplate and reflect. This is accentuated by an intentionally-left empty space that is inspired by the beautiful marble clad courtyard of the Sheikh Zayed Grand Mosque of Abu Dhabi.

During the night, the columns turn into street-lamps that gently illuminate the park, resem-bling water falling from the clouds. The pavement consists of poured-on-site white stained cork, creating a soft ground with acoustic absorption properties. This contributes to create a quiet space for reflection and contemplation.

The environmental impact of the design is minimal given the light-weight nature of the struc-tures. ETFE only weights 170gr per square metre and has a lifespan of 40 years and is recyclable. The steel columns are slender and hollow minimising their embedded energy. The OPV cells are lightweight, efficient and of organic origin. Cork is one of the most environmen-tally friendly materials, is naturally renewable, biodegradable and does not need the tree to be cut down. The rest is mostly air.





