

HYPER SQUARES

PLAY | INTERACT | EDUCATION

ART | KINETIC | POP-UP

LED shell powered by modules create dynamic light art experience.

Different rotation angle of wind turbine wall creates different light diffusing patterns.

Kinetic energy from footsteps powers the pathway's interactive light display.

Filtered water from plant modules forming water curtain reflecting light art.

Playscape capture kinetic energy while visitors interact with it.

As people step on the module surface, their weight causes generators underneath the tiles to rotate, generating power via electro-magnetic induction.

Bluetooth beacons embedded in the tiles connect with mobile app to allow visitors learn how much energy they generate.

Modules can be taken out and reassembled for household's installation.

Solar modules rotate with the sun angle to maximize energy output.

Selective plant species attract birds and insects, increasing biodiversity.

Humidifier embedded in the structure draws the filtered water stored in the plant modules and mist just the right amount of water responding to temperature and humidity level.

Edible plants are grown and harvested for pop-up food service.

Water filtered by plant modules is collected at the wetland or mini ponds, which treat and store water for agricultural use on site.

Filtered water from plant modules forming water curtain and creating microclimate.

NURTURE | FOOD | BIODIVERSITY

WATER | MICROCLIMATE

