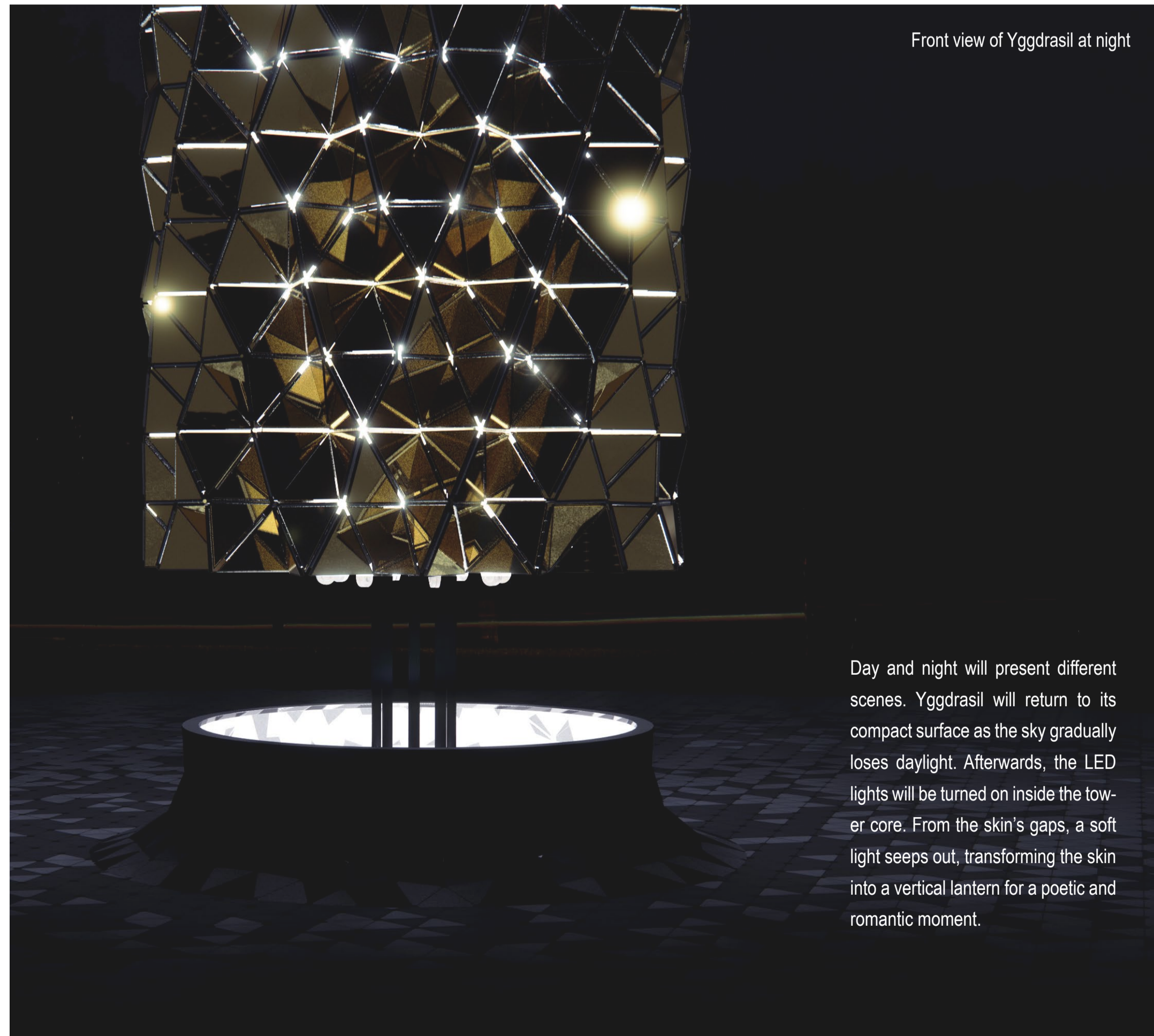




Front view of Yggdrasil in the morning

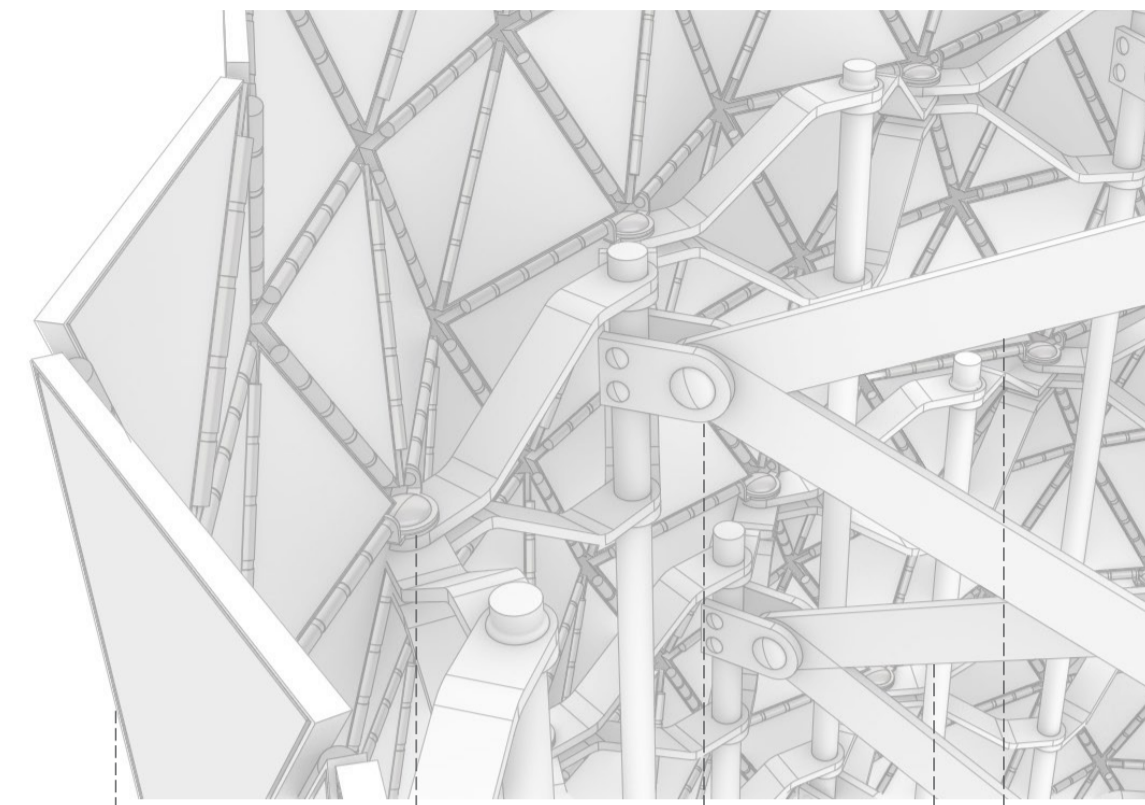


Front view of Yggdrasil at night

Day and night will present different scenes. Yggdrasil will return to its compact surface as the sky gradually loses daylight. Afterwards, the LED lights will be turned on inside the tower core. From the skin's gaps, a soft light seeps out, transforming the skin into a vertical lantern for a poetic and romantic moment.

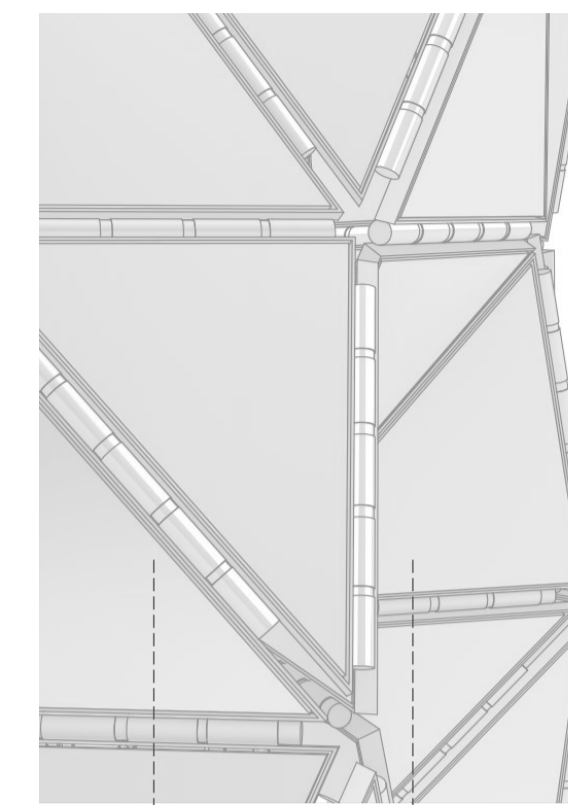
Construction Details

Connection Detail between PV Panels and Foldable Structure



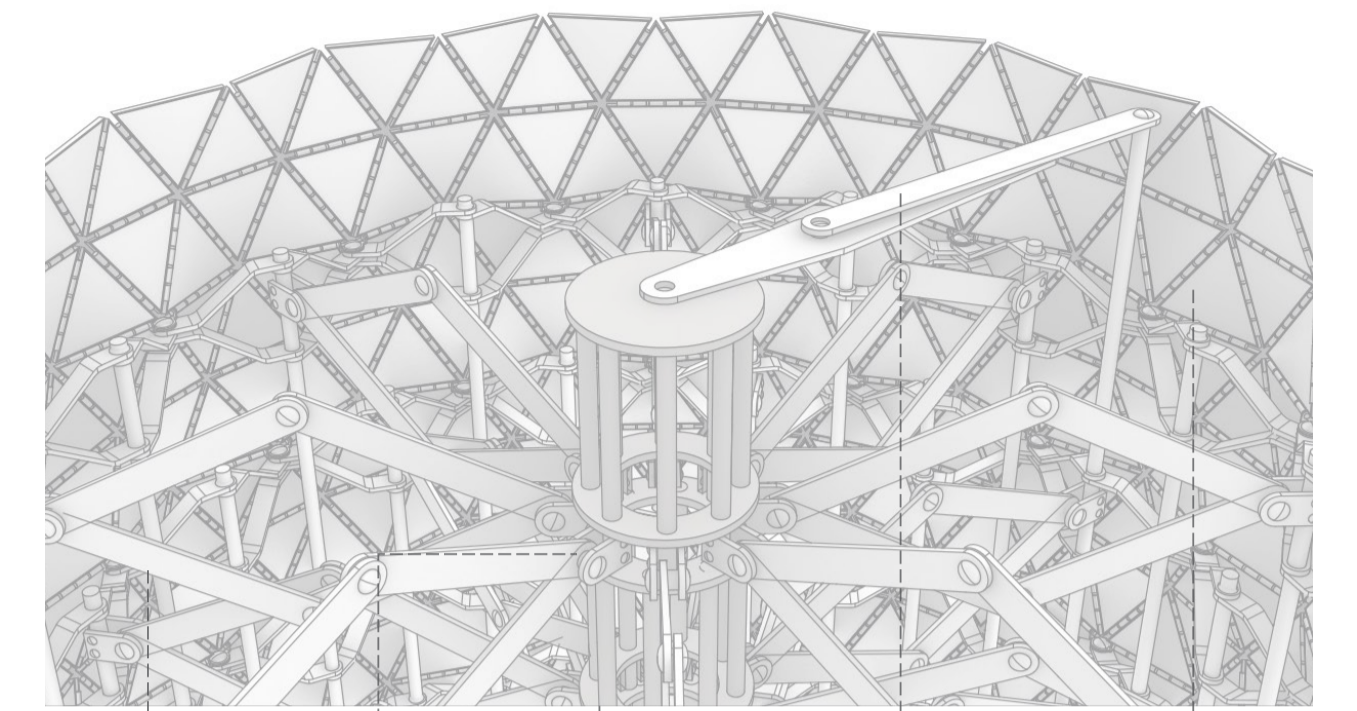
800mm (W) Equilateral Triangular Polycrystalline PV panel module
Pin joint to fix the foldable PV panel modules on the outer ring
Knuckle joint to connect to vertical support
50mm (thk.) stretcher to connect to the central core

Detail of Foldable PV Panel Module



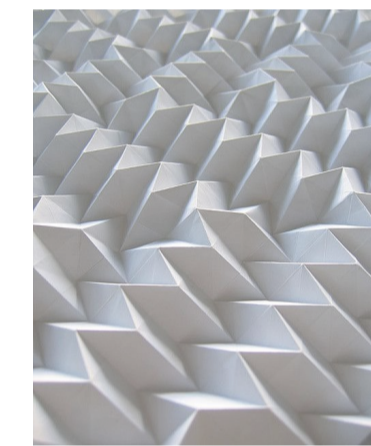
Butt hinge to integrate the PV panels
800mm (W) Equilateral Triangular Polycrystalline PV panel module

Detail of Centralized Integrated System for Domination of Form Changes

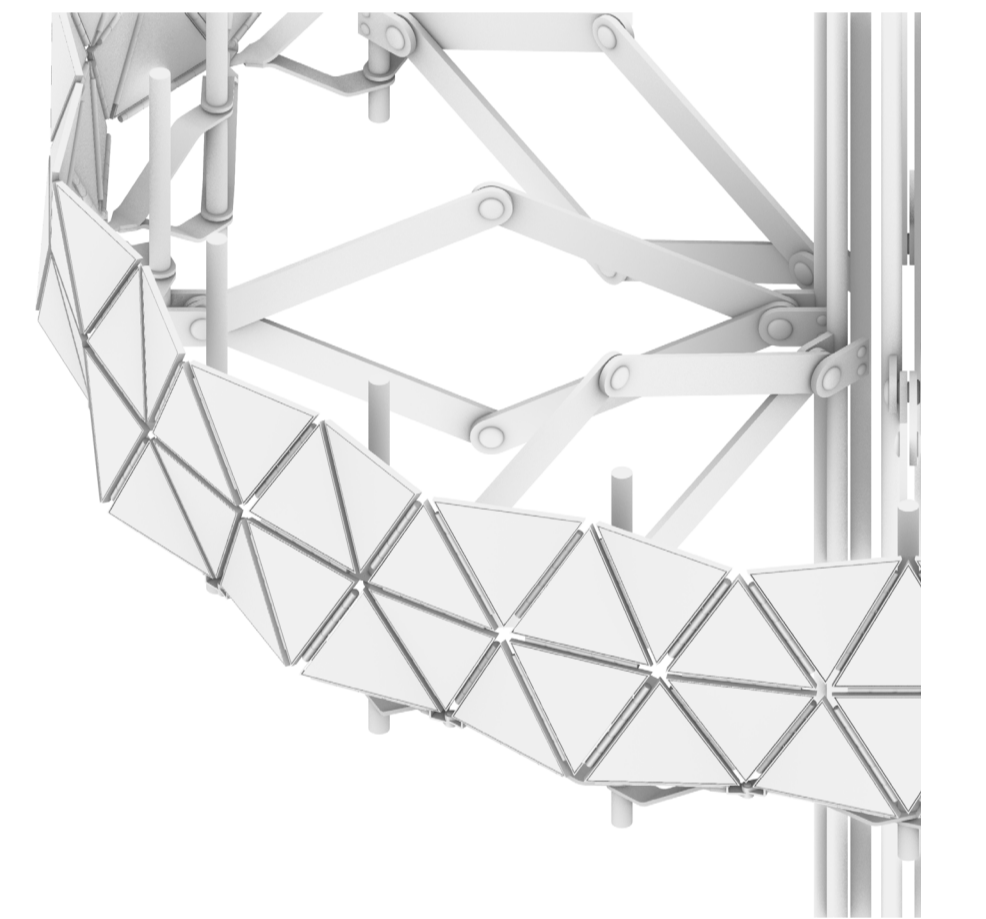
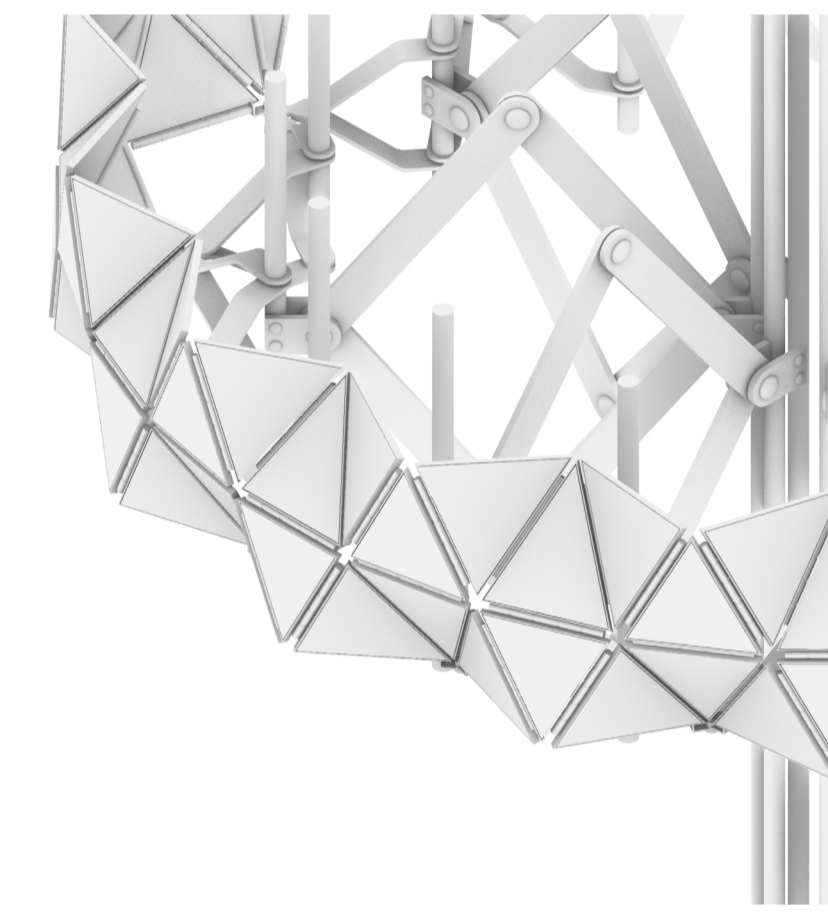
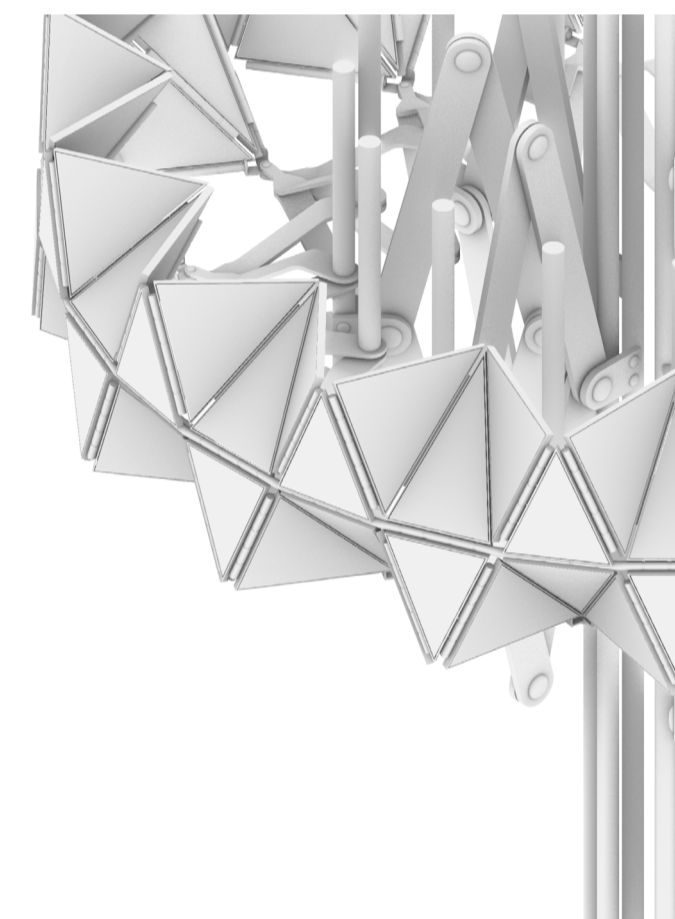


50mm (thk.) stretcher to connect to the central core
Pin joint fixed by structural rings in both sides
Column support to transfer loading to the ground
Control Needle with 360 degree rotation to generate expansion and compression to the surface
800mm (W) Equilateral Triangular Polycrystalline PV panel module

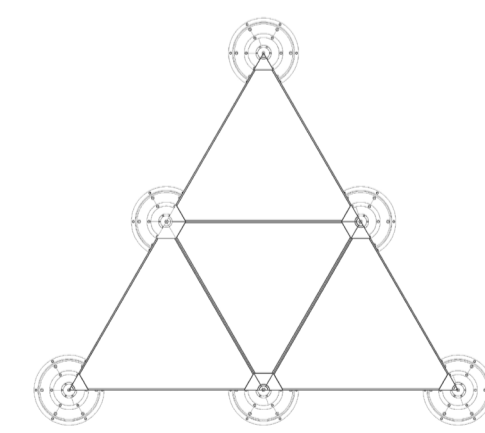
Folding Details of PV Panels



There is another mechanism to form changes in photovoltaic module installations in order to achieve the beauty of alteration and movement. A foldable system, as similar as origami, integrates the modules of PV panels instead of knuckle connections to the stretchers. Four equilateral triangles by 800mm (W) are grouped together as one module. Each module is connected to the stretchers. Additionally, each panel is hinged at the butt. The whole surface will deform when there is tension or compression by the forces. Such alteration actually be our design intent for Yggdrasil.

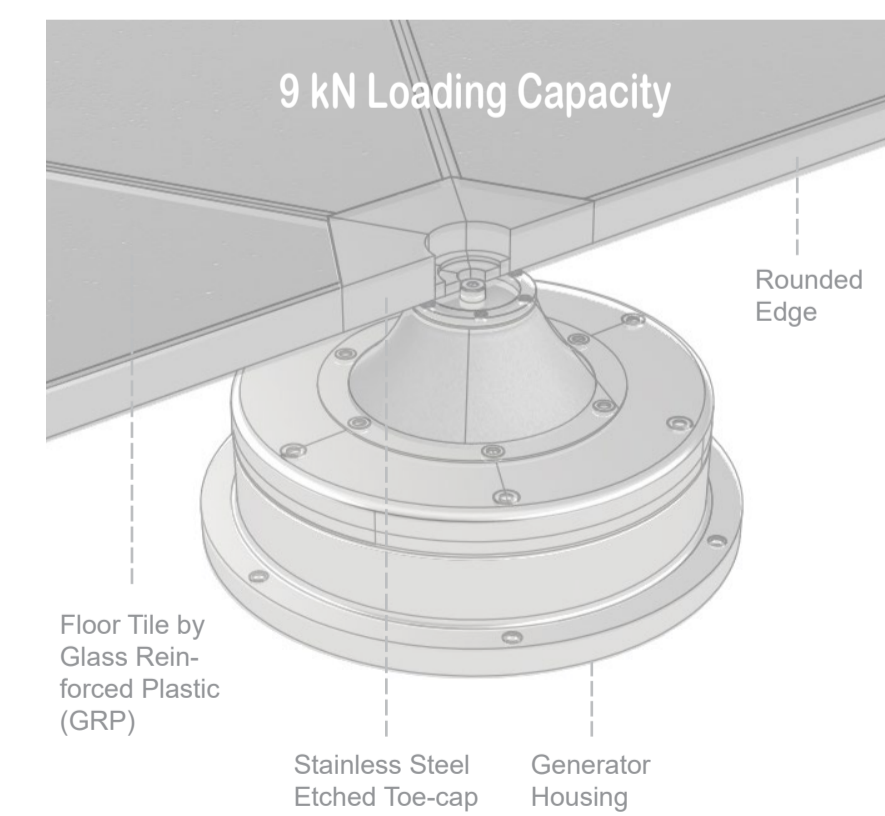


Details of Electromagnetic Floor Tiles



Plan of Electromagnetic Floor Tiles

We also consider to apply electromagnetic triboelectric hybrid into our design in order to provide one more options for renewable energy adoption. We refer to specification of one proprietary product at the market to draft our idea. The floor paving is composed by equilateral triangular floor tiles on ground. The product can be beard 9Kn point loading in the record. Its maximum power output can be up to 5W per footstep.



9 kN Loading Capacity
Rounded Edge
Floor Tile by Glass Reinforced Plastic (GRP)
Stainless Steel Etched Toe-cap
Generator Housing

Connection Detail between Floor Tile and Generator



Aerial View of the Sqaure - Gradual Change of Colours