



1. Structure System

- 1.1 **Wire Layout**
Wire is hidden in gutter, back of structure.
- 1.2 **Structure Joinery**
Wood structure is joined in the joint and bracket

2. Wire System

- 2.1 **Wire Structure**
2mm/Steel Wire
2.5sq/Electric Wire
1mm/Silicon Tube

3. TENG Module System

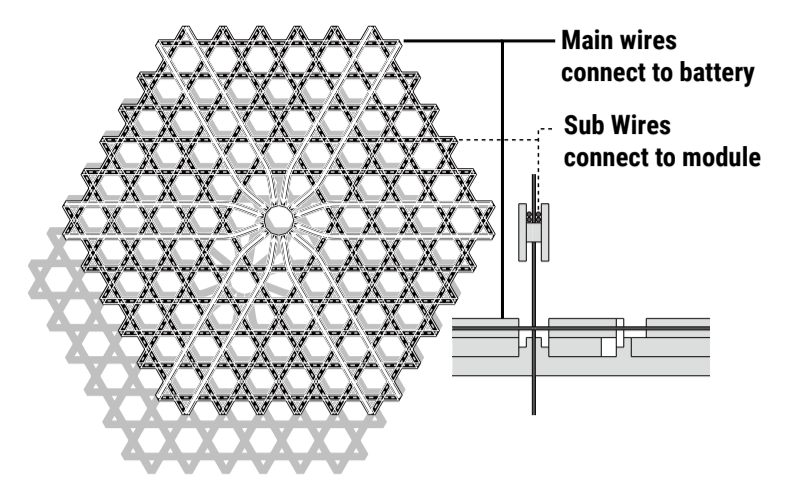
- 3.1 **Spherical Dielectric**
14mm/Silicon Rubber
- 3.2 **LED Structure**
0.75sq/Input wire
0.75sq/Output wire
LED Light Panel
LED Basement
- 3.3 **Al Electrode**
1mm/Aluminum
- 3.4 **Washer**
0.8mm/PVC
1.2mm/Wire Connector
- 3.5 **Acrylic Finish**
2mm/Acrylic/frosted

4. Battery System

- 4.1 **Battery Charge**
Phone Charger
Bench
- 4.2 **Battery Storage System**
Resistance
Resistance Oscillator
V out
- 4.3 **ESS System**
Battery Management System
Power Conversion System
Electric Pipe Shaft
Energy Management System
Battery

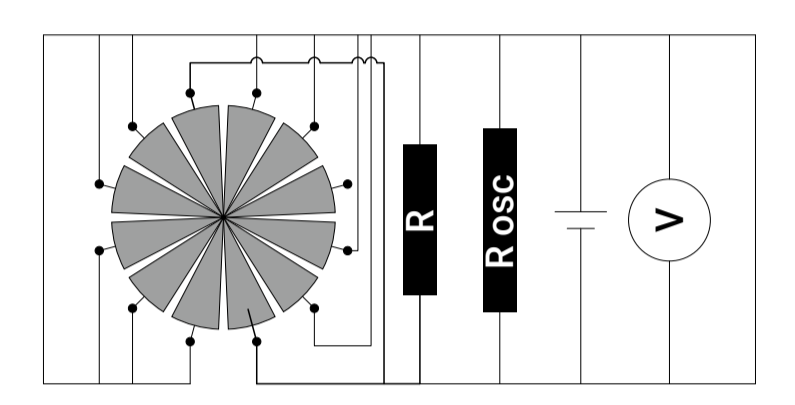
5. Detail

5.1 Wire Circuit Diagram



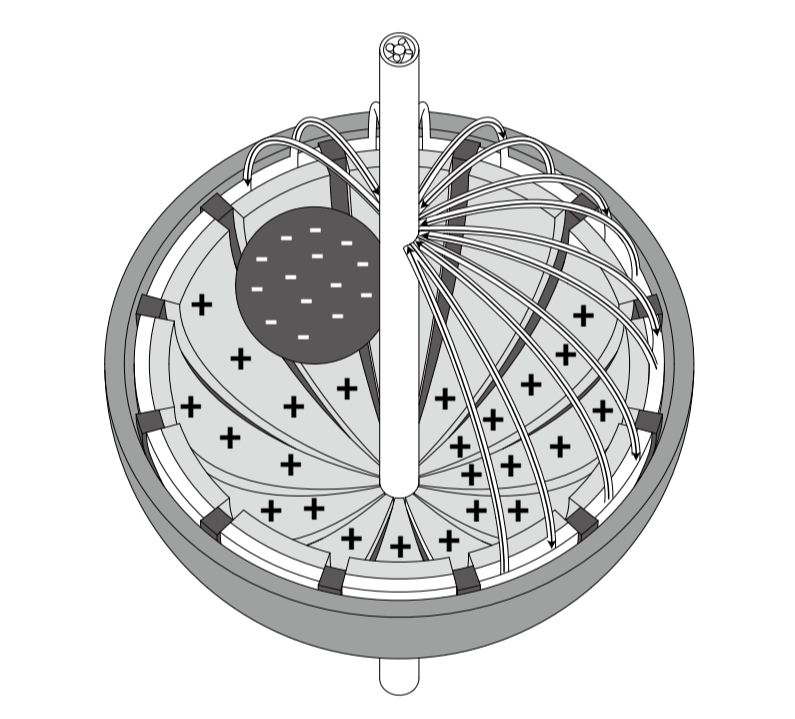
Wires are hidden in the structure that is made of recycled plywood and are connected by the **minimum distance** through six main circuits.

5.2 TENG Circuit Diagram



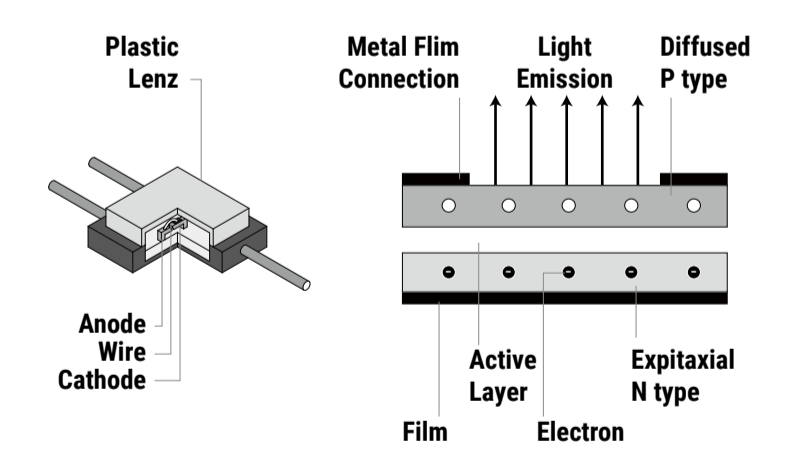
Electrons, charged inside the module, are connected to the storage battery, which enables **sustainable power generation**.

5.3 TENG Generate System



Aluminum metal plates and silicon balls are fluttered by the wind, making the electrons move through the wires connected to the module, consequently generating power

5.4 LED Structure



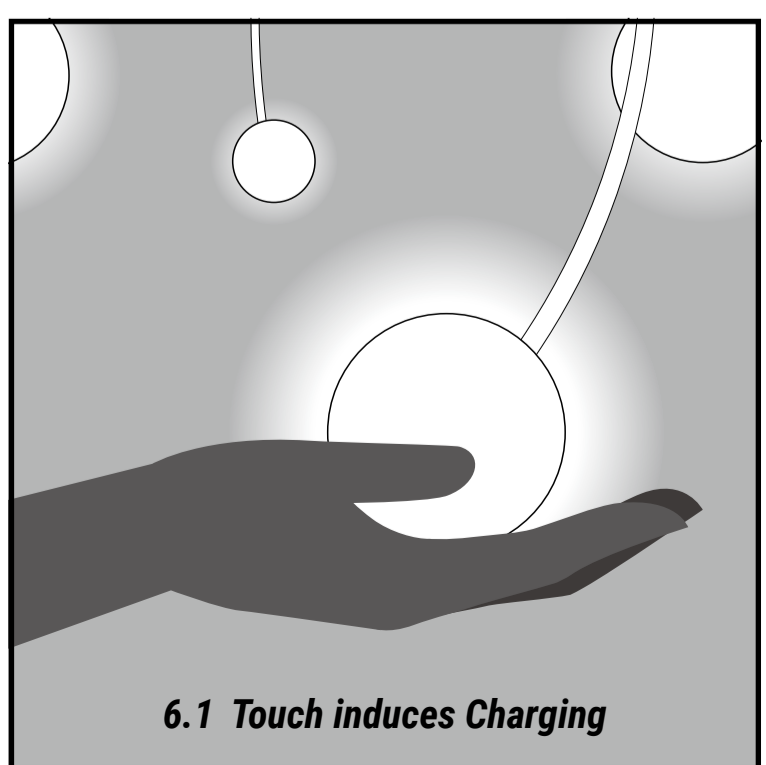
LED lights up when the power is generated and it also creates a **energyscape** together when the wind blows.



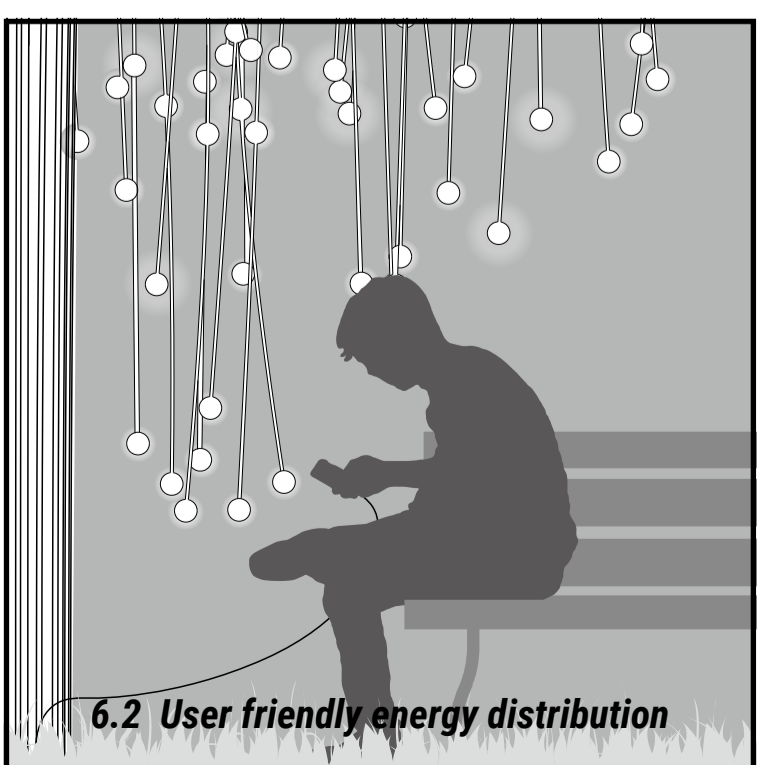
Day view of the tree-like structures and modules

Night view of the illuminating modules

6. Affordance Diagram



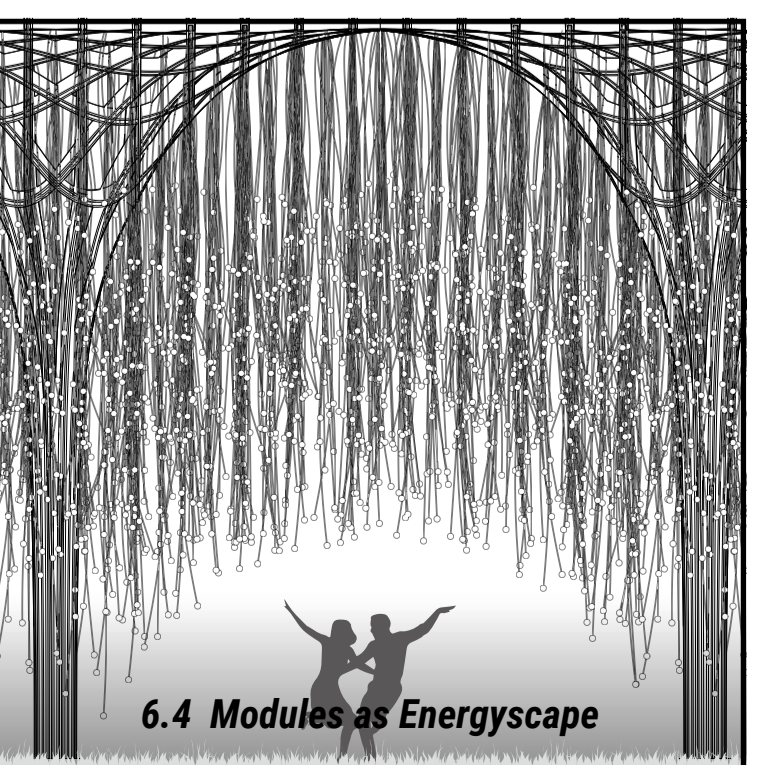
6.1 Touch induces Charging



6.2 User friendly energy distribution



6.3 Wind makes Scenery



6.4 Modules as Energyscape