**Solsure steppingstone**

Renewable energy has been the next step that humans have begun to take in order to try preserve and protect the very little green earth we have left to pass on to our children. We were given the task to create a module that could be joined with many other modules to create one big sculpture depending on the size of the space that a person is wanting to put the module in. Once the number of modules required for the size of the area it would be placed in a park or home garden to create an art sculpture. With this sculpture that uses renewable energy it will be used to power devices or lights around the structure.

The technology used in my design has been created using both solar panels and pressure plates. I wanted to create a module using a honeycomb pattern to mimic a pattern from nature as this sculpture would be placed outside in nature. My main concept was to use renewable energy that could be used in any part of the world even if they don’t receive many hours of sunshine or have many days at a time without sunshine due to weather. The pressure plates will generate electricity by the downward motion of the pressure plate that drives an electrical generator which is then collected and stored in a battery until it is needed to be used either for the lights in or around the park or lights around the house depending on how it is set up. The solar panels were an added feature that I wanted to include into the design as solar panels are easily accessible and most of the time sculptures are in the sun meaning this would help to store up electricity when the park isn’t busy with people or children moving over the sculpture. The solar panels will be connected to the same batteries as the pressure plates.

The activities that people will be able to achieve using the sculpture is using it as a walkway through the park setting it at different heights all the way through creating a beautiful wave like pattern through the park. It could be used as steps to allow one to get to different heights in the park, it can be used as a playground for children making the sculpture a jungle gym for them to climb and play on and it can be used as seating for people that need to rest from exercise or want to sit and read or work in the park. These above-mentioned activities can be achieved when set up in a home garden as well. It all depends on the size of the garden as to how big the structure may be.

The Solsure steppingstone supports UN sustainable goals by being matched with a few of the goals that will be mentioned below.

Goal 3 of the UN sustainable goals is health and wellbeing, with the Solsure steppingstone being a renewable energy it won’t be harmful against the environment making the air cleaner allowing people to breath in fresher air. Due to the steppingstone being off the grid and using the sun and people it will create affordable and clean energy and making the cities and communities sustainable. These above-mentioned goals will make the cities clean and will begin to have a positive impact on the climate change. With positive impact that the Solsure steppingstone will have on the environment it will create a hype around it that lots of city planners will want to have it installed in their cities thus creating jobs and growing the economy.

On average the solar panels will create about 2000 MWh per a year and the pressure plates will depend on how much activity is crossed over them and how often this will be done.

The environmental impact that the Solsure pressure plate has on the environment will be positive. The solar panels and pressure plates are forms of renewable energy that will make use of the electricity created by the sculpture to power the lights around the sculpture at night. This takes these lights off the grid requiring less power from the power stations to generate electricity for the lights. Thus, creating less pollution and causing less strain on the grid. The blocks that will be used to create the patterns and heights to create the structure will be created from recycled plastic with the intention of allowing less plastic going into the earth.

For us to create a better, greener healthier earth for our children we need to start standing together to start making a difference what better way to start than by installing the Solsure steppingstones into parks and gardens around the world.