

Project 1 Sustainable Electric Toothbrush

Our design team was presented with the challenge of taking an electric toothbrush and redesigning it to be as economically sufficient as possible to appeal to the economically conscious and the green population. We are going to achieve this by making the electric toothbrush self-sustainable. Before we did anything we needed to find out how the toothbrush worked and how much energy it was using so that we know how much energy we need to store so that the toothbrush can run on stored energy.

Throughout the report our design team has put together, there is information on what our customers want from the toothbrush and how we plan to give it to them. We have done some research on past patents on electric toothbrushes to see what other companies did, and we are taking them into consideration. Also in the report there is information on the two labs that our design team completed to find out how to make this electric toothbrush better. The most important thing we found out from the two labs is how much energy that we need to store inside of a rechargeable battery so that the electric toothbrush can run for a decent enough amount of time for someone to be able to brush their teeth.

Our design team has no doubt that this toothbrush could actually work. It is unlike any other toothbrush because it is completely self-sustainable using solar power and it still meets the wants of the customers. It has a great quality of clean and the grip is hand friendly while still being affordable.

