

DESIGN PROJECT IDEA

ANALYZE OF DESIGN PROJECT

AUTOMATIC POWER DISTRIBUTION & SOLAR SYSTEM

Due to the economic crisis in our country, there are several problems facing by students & employees. Regard to this fuel crisis all schools and universities are closed, and the studies and works are going on online platform. And several hours of power cut in these days also. So, the students and workers can't attend the online classes, can't do their examination and online submissions due to the lack of power in their devices (laptops, phones, E-tablets). And also during the power cut hours they can't get a proper coverage and can't access the internet. Because most of the students are using Wi-Fi routers for access the internet.

So, as electronic engineering students we have a responsibility to give a best solution for the students and internet-based employees. Because our country earned a lot of dollars from IT – related workers and we are rich in education professionals and our country is an empire in education sector in all over the world.

So, we gave a concern about that major issue in our country and came with a best and reasonable solution for that problem.

In our country we can produce the power not only with the fuel and coal but also there are many renewable energies to produce the power. So, we discussed this and came a final decision to use solar power to produce the electric power. Because it is the simple, reasonable, anyone can use this in the home any part of our country and it took a small space to place this system.

With this process we can use a simple electronic product to convert solar energy to electrical energy and charge a battery from this power. So, we can use this electric charge during the several hours of power cut to do our important IT-related works and online platform studying. so, we can overcome with this power issues.

And another problem is sudden internet network loss in the power cut times. To overcome this issue, we discussed to product an automatic power distributor for Wi-Fi to keep the power distribution continuously. From this process we can eliminate the sudden internet loss from Wi-Fi, and we can continue our internet-based works with not issue.

And we were tried a lot of alternate method to back up our internet connection but those failed at last. First, we think about the power bank system but if the power cut is 13 hours, we unable to use that backup in an efficient manner and, it maybe manages our problem to 2-3 hours only and we need to get backup power before the power cut if the power cut happens in unplanned there, we dropout that plan. And when we were seeking an alternate method, we found at daraz online shopping platform there is a cable that connect laptop or any other power stored device to Wi-Fi, but we need our laptop to our studies for a long time therefore this plan also dropout after several planning we come to final decision about renewable energy (Solar Power) to design our product. Therefore, we were induced to make that plan as the project.

From this project we assume that we can generate the electric power from a renewable energy, and we can eliminate the internet issues from the sudden power cut for Wi-Fi's.