IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 8, June 2022
Impact Factor: 6.252

Power Generation using Gym Equipment

Mr. Rajshikhar Roat[1], Mr. Abhishek Tupe[2], Mr. Gaurav Satpute[3], Mr. Rohit Purbia[4], Dinesh H. Burande[5]

Department of Mechanical Engineering, NBN Sinhgad School of Engineering, Pune[1,2,3,4,5]

Abstract: *As the global need for energy grows, there is a pressing need to find new technologies for energy transmission and generation, particularly those that are less environmentally harmful. Human power has potential use in emerging places where electric power is either unavailable or too expensive. There is also the untapped potential for harnessing human power at most fitness facilities. Nowadays, spin bikes are extensively used for exercise in both the gym and at home. The drive for gyms around the country to capture this energy and convert it into usable power that can be supplied back into the grid. We are creating electrical power in this project using a non-traditional way of just pulling up and down using Gym equipment. Pull up pull down is a non-conventional energy source that converts mechanical energy into electrical energy. The conversion of force energy into electrical energy is the focus of this study. Pull-ups and pull-downs are a good source of energy, with 95 percent of the effort put into them converting to energy. In the gym If power is not available for an extended period of time, AC power is used for our gadget, which is stored in the battery, resulting in a significant output. Exercise is then performed, and electricity is created in the battery.*

Keywords: Gym Equipment, Electrical Energy, etc.

REFERENCES

[1] "Power Generation through Gym Equipment" By Ansari Saddam Husain, Gujja Govardhan, Gund Kumar, Mohd Ahmad, Vivek Tiwari, Yakub Khan. (2019) (source: iosrjen.org)
[2] "Power Generation using Gym Equipment" By Ruchith, Akshitha, Supreeth, Syed Khaja, Girisha. (2021).
[3] "Energy Harvesting from Gym Equipment" By Madhup Kumar, Dr. G S Mundada. (2020).
[4] "Energy Generating Gymnasiums Machines for Renewable, Sustainable and Green Energy" By M. Musharraf, Ifrah Saleem, Dr. Farhat Iqbal. (2018).
[5] "Power Generation Using Gym Equipment" By Avish Bhandari, Shailesh Itte, Jas Jangipuria, Ramesh Harayan. (2019).