Florida Gulf Coast University

SOLAR SOFTWARE

BY XAVIER NARANJO, RYAN SMITH, DYLAN MILES, ANDREW SIEBER

A BRIEF DESCRIPTION

Our technology is a software that can manage solar power starting from the panel to use in a power grid for homes, businesses, and other various power needs. It should be able to allocate this power based on needs and trends provided by the user's and sample data collected in research about the target users. There will be decentralized command centers for the system across the entire grid for maintenance, updates, information, etc... The data storage units would be through the cloud to a secure server room at each of the command centers to ensure that the system will stay decentralized. This software, once implemented into solar farm's scattered around the nation of use, will be capable of solving the problem of transitioning from fossil fuels to a more sustainable and renewable energy.s Nature publish articles and scientific papers across a wide range.



CHNAGING THE WORLD

This technology, once implemented across a many number of homes, businesses, and other various power needs, will then have an expansive impact on this world's environment around them. Once, this software is maintaining and supplying large cities and towns that require considerable amounts of power, this in turn will increase the overall amount of environmentally friendly energy produced. With the proper structure, production, and distribution of this energy will then overtake the previously used fossil fuels energy production that has harmed the Earth's on making this transition as compatibly smooth between previous fossil fuels to new sustainable energy sources will then allow for the general consumer to be more open about the idea of making the change. Making the transition to compatible clean sources of energy will change the direction this planet's climate is heading in hopes of a long and sustainable future ahead.

Opportunity/solution

The most practical use of a system like this would in the infrastructure for a country. In practice, with efficient solar farms around the country on land allocated for this specific purpose, it should be capable of taking over the power sector of that country. Replacing any existing system with above average results. At the same time, the implementation of this system would create thousands of well-paying jobs, to create, in state and upkeep this entire system. Strengthening the infrastructure of the country and solidifying them with capable and efficiency energy allocation, storage, and continuous power.



References

S. Mcleod, "Maslow's Hierarchy of Needs," 20-Mar-2020. [Online]. Available: https://www.simplypsychology.org/maslow.html. [Accessed: 25-Oct-2020]. "Climate Change – United Nations Sustainable Development." [Online]. Available:

https://www.un.org/sustainabledevelopment/climate-change/. [Accessed: 25-Oct-2020]. D. Grossman, "The new future of solar panels, after covid-19," Inverse, 20-Apr-2020. [Online]. Available:

https://www.inverse.com/innovation/new-future-of-solar-panels. [Accessed: 16-Nov-2020]. "Off-Grid or Stand-Alone Renewable Energy Systems," Energy.gov. [Online]. Available: https://www.energy.gov/energysaver/grid-or-stand-alone-renewable-energy-systems. [Accessed: 16-Nov-2020]. P. Denholm, R. Margolis, B. Palmintier, C. Barrows, E. Ibanez, L. Bird, and J. Zuboy, Methods for Analyzing the Benefits and Costs of Distributed Photovoltaic Generation to the U.S. Electric Utility System, 2014.

A. Arpit, "3D Printed Solar Energy Trees Market – Global Industry Analysis, Size, Share, Growth, Trends, and Forecast 2017 – 2025," TechnoWeekly, 08-Nov-2020. [Online]. Available: https://technoweekly.com/news/814223/3d-printed-solar-energy-trees-market-global-industry-analysis-size-share-growth-trends-and-forecast-2017-2025/. [Accessed: 08-Nov-2020]. "Concentrated solar power," Wikipedia, 03-Nov-2020. [Online]. Available: https://en.wikipedia.org/wiki/Concentrated_solar_power. [Accessed: 08-Nov-2020].

THE MAIN CHARACTER

The main character of this technology implementation would possibly be the general consumer of energy. This would be any person living in an area in which this technology has been properly implemented and in use. They would live their lives in a much cleaner manner in which the energy that they consume is sustainable and not environmentally disruptive. In hopes of a clean transition of energy production, this user would not be largely impacted on the way they live their lives or the energy that they use. But they would be using a much cleaner form of energy that in turn has a great environmental benefit for the better their own future and that of the entire planet. Hopefully, this user would appreciate the good that they are doing and spread the word to others in their lives to make the switch for the greater good of all. With pleased customers, comes the spreading of ideas and this technology to more and more communities wanting to make the switch.