

Solar energy from DC-AC conversion in Margao city, In India

Simple living but very high thinking for the benefit of humanity

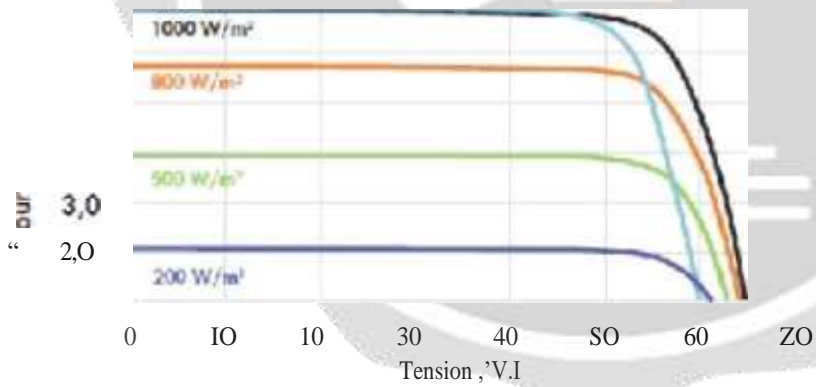
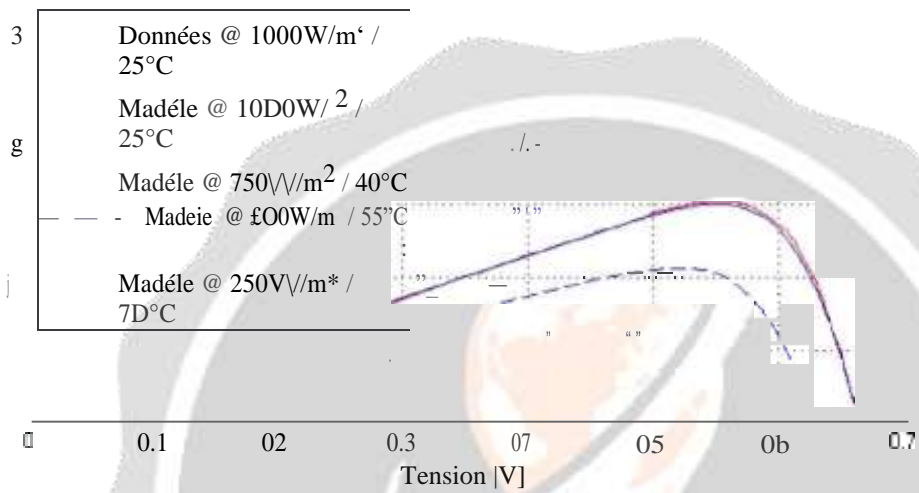
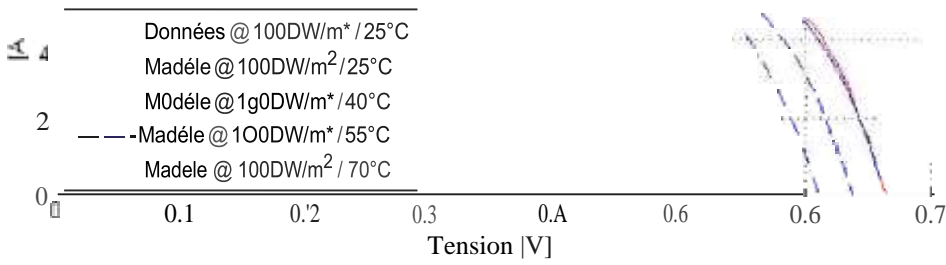
Sunitt Shantanu Digamber Fulari

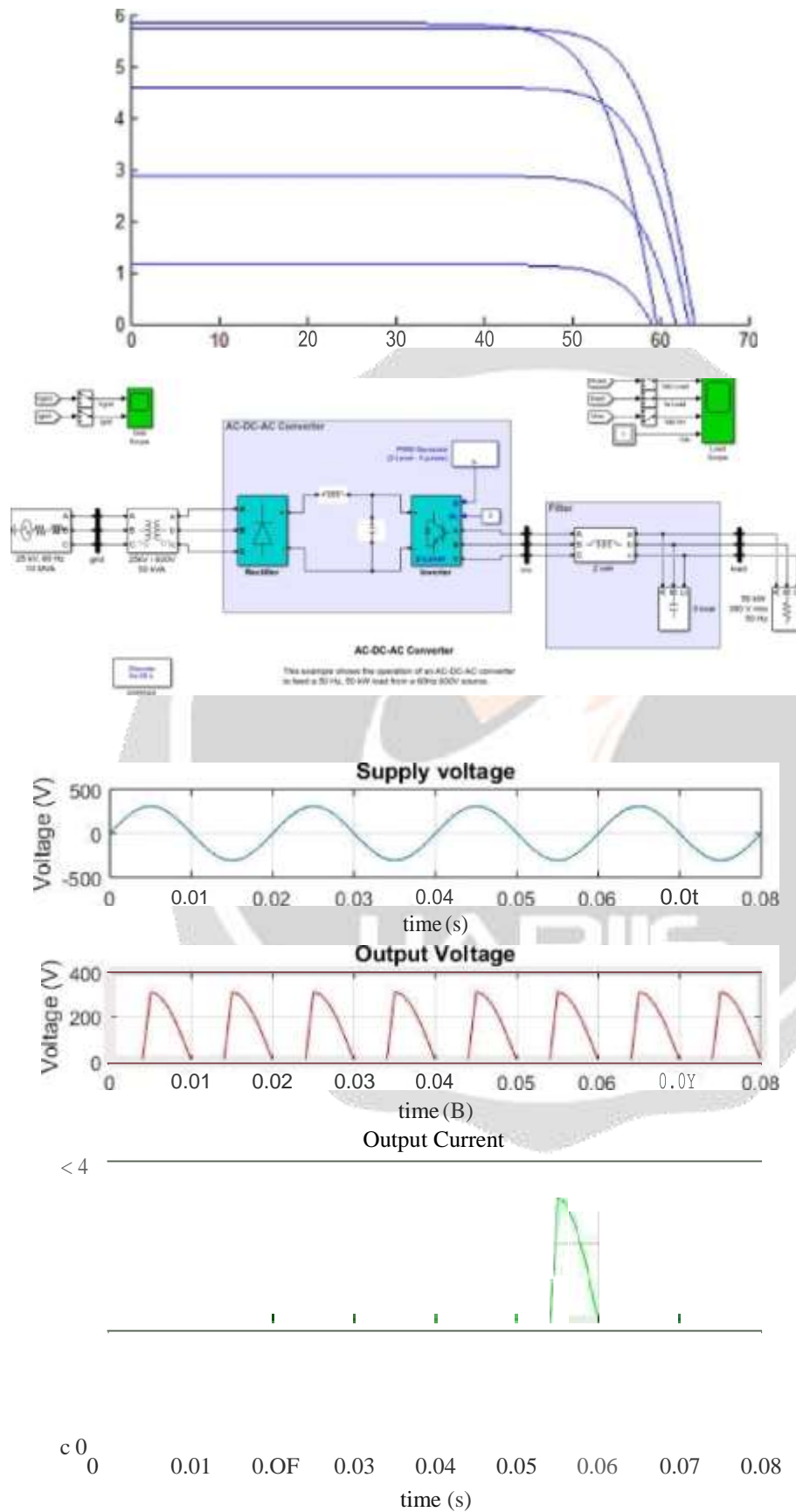
ECE dept. Chandigarh University

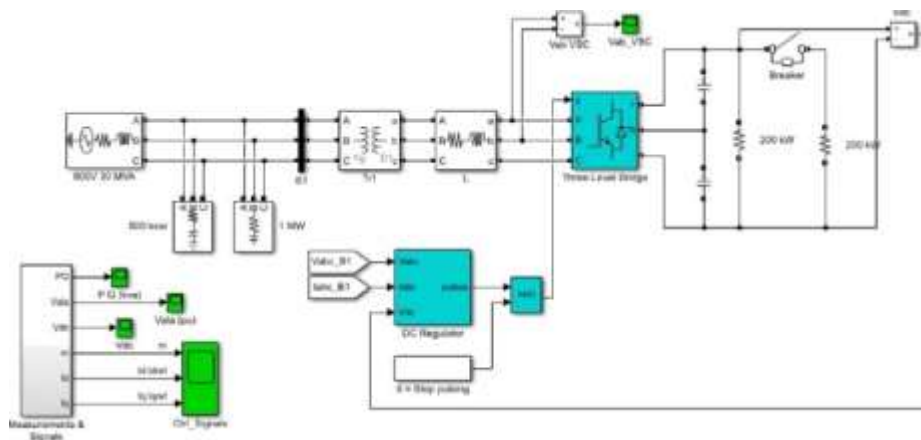
ABSTRACT

We have to think for the betterment of this humanity in a sustainable environment form of thinking and working. This can only be achieved with sustainable approaches. Sustainable engineering is a branch of engineering which looks after perfect and proper utilizing of resources such as air, water, fire, coal, fuels, all forms of resources available to mankind with utmost sensitivity.

What I am conveying in this article is using solar energy which is widely available in India as India has a tropical climate. We want to make this tropical climate to the fullest use. Solar panels convert DC-AC electric energy by using solar energy available widely throughout our planet. Solar energy is what we want to use to the maximum extent and by this I mean to the maximum extent available for the energy needs of humanity. Solar panels cost 15000 per panel and require 36 panels for a 10 kilowatt plant which can power 6-7 bed rooms house. Besides we have used soltrace and other softwares such as matlab to simulate our results.

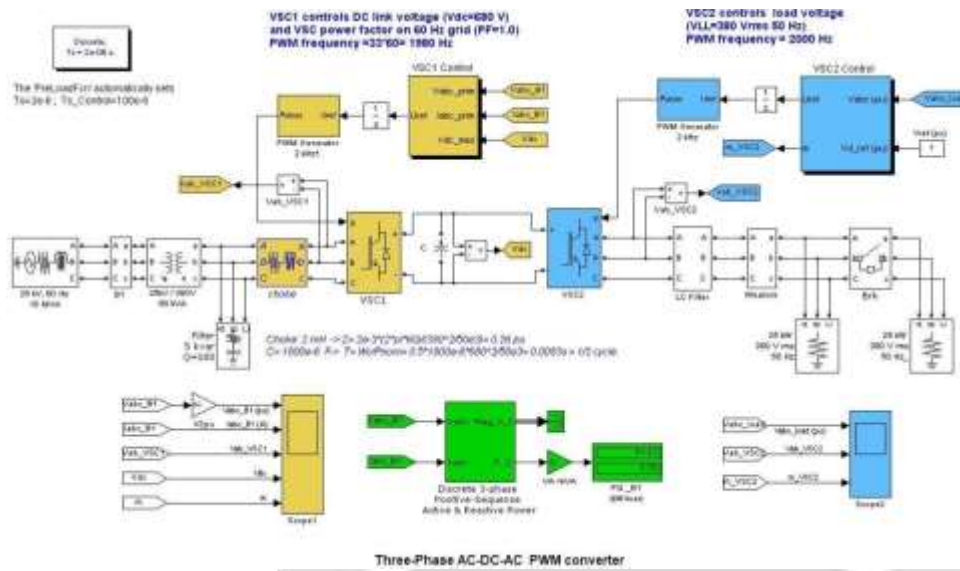






AC/DC Three-Level PWM Converter





Conclusion:In this system we have decently displayed DC-AC conversion criteria and setup for efficiency also. We expect this research will help many households in India to shift to solar power generation by solar panels which involves inverter and battery for conversion and storage and can power all individual households.

References:

- [1] Matlab simulation help taken and local solar dealers taken into consideration.

