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Bijon Kumar Sil, J Fundam Renewable Energy Appl 2016, 6:4(Suppl)
http://dx.doi.org/10.4172/2090-4541.C1.011

World Congress and Exhibition on

Wind & Renewable Energy

July 28-30, 2016 Berlin, Germany

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Domestication of wind energy through integration of house-hold fan

This study relates to the generation of electricity by mini wind generator through integration and utilization of air released from house-hold fan and its recycling. The use of wind to generate electricity by wind turbine system is already established and is environmentally friendly. However a constant and uninterrupted flow of wind is one of the major challenges of this technology as it is difficult to manage natural air flow. The current invention (Singapore Patent: 10201600351U) is focused on a new technology by integrating house-hold fan with mini wind generator so that the system efficiently managed the flow of uninterrupted air, rotate blades and generate constant amount of electricity which later is stored in a power bank. This electricity is a renewable and/or recyclable either to run the mother fan or charge other electrical devices like mobiles, tablets and laptops and is called Recycle Electricity (RECEL). The prototype Model was developed using 12V-36V mini generator and 25Wh powered floor-type fan which generated around 15Wh electricity and revealed it promising commercialization. Integration of the Model with 1 billion house-hold fans (50watts/hour) (currently used world-wide) could easily generate approximately 112TWh/year (25wx15hX300days) which is more than sufficient to charge 7.1 billion smart-phones (115TWh=15wx3hx365daysx7). This new capability will add important flexibility of generation and utilization of wind power electricity in a control fashion and bring the technology at the door step of end users. The technology enabling the double uses of house-hold fan: cooling the environment and generating electricity which could provide energy to the fastest growing mobile information technology and at large for the society.

Biography

Bijon Kumar Sil has completed his PhD from University of Surrey, UK and Post-doctoral studies from Kittasato University, Japan in Immunology. He is the Director of The Awesome Place an emerging Technology based R&D company. He has published more than 30 papers in reputed journals and attended over 20 international conferences world-wide.

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