

Western Port Greenhouse Alliance Agricultural Emissions Project

Idea No: 6

Footprint Rating:



Solar Photovoltaic panels

Description: Light from the sun that is incident on a semiconducting material such as silicon (the material used in photovoltaic (PV) panels) causes electrons to flow within the silicon - thus creating electricity. Solar PV panels can be used to produce the electricity requirements for the farm and house, without producing any CO2 emissions, as coal-powered electricity does.

Environmental Benefits as opposed to the current system

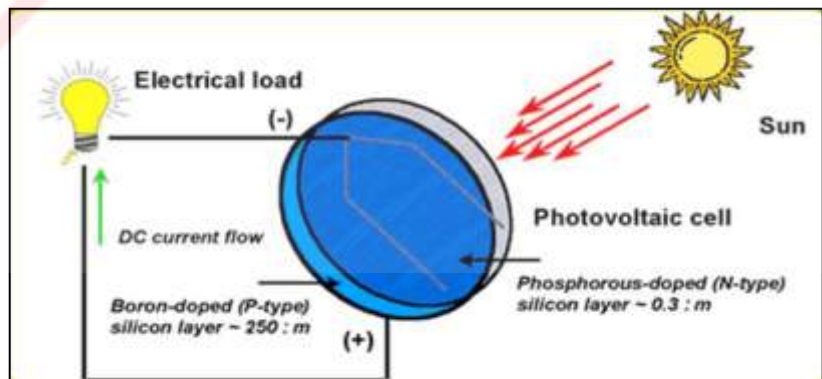
% reduction in GHG emissions:	1.29%
% increase in water efficiency:	0.00%
% reduction in waste to landfill:	0.00%
% increase in production:	0.00%

Benefits: Reduced energy costs and emissions

Costs: \$8,000

Savings: \$384 and 2.8t CO2 per year.

Implementation/Monitoring/Reporting



For more information see the following websites:

<http://www.explainthatstuff.com/solarcells.html>

<http://www.energymatters.com.au/>

<http://solarpanelhowto.com/images/Side%20Solar%20Panel.jpg>

http://www.gammasolar.com/upload/PV_Cell_Diagram1.png

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