Tobacco can be grown under photovoltaic panels

Overview

Scientists at UC Berkeley recently figured out a way to get tobacco plants to grow extractable synthetic photovoltaic and photochemical cells that can theoretically be sprayed onto a glass substrate to create solar panels. Tobacco is the leading cause of avoidable death globally, and despite increasingly stringent controls on tobacco, economics provides an incentive to continue tobacco production. However, with the economics of PV ever improving, this study investigates the potential economic benefits of photovoltaic. Joshua Pearce, professor of materials science and electrical engineering at Michigan Tech, has conducted several studies investigating the benefits of having large-scale solar deployments replace existing coal or nuclear power. (Image courtesy of Sarah Bird/Michigan Tech.) A case study published by. Converting fields currently used for farming tobacco to solar farms would increase land owners profit per acre and additionally would reduce preventable deaths caused by tobacco while also generating renewable energy to prevent climate change. A tobacco plantation in Colombia.

Tobacco can be grown under photovoltaic panels

Farm Sunshine, Not Cancer: Replacing Tobacco Fields with Solar Arrays

But two Michigan Technological University researchers contend that converting tobacco fields to solar farms could profitably serve two purposes: Reduce preventable deaths and meet the ...

Converting Tobacco Fields into Solar Farms Can Save Half a Million

If every tobacco farm in North Carolina converted to solar energy production, it could save half a million lives a year. Pearce and his colleague Ram Krishnan, who designs large solar ...

Scientists Engineer Tobacco Plants to Grow Solar Cells

Scientists at UC Berkeley recently figured out a way to get tobacco plants to grow extractable synthetic photovoltaic and photochemical cells that can theoretically be sprayed onto a ...

Turning Tobacco Fields into Solar Farms

This case study drives home the point that every acre of tobacco converted to solar panels potentially puts a dent in that number. Every time a tobacco farmer converts the crop, it eases ...

(PDF) Economic impact of substituting solar photovoltaic electric

In a case study of North Carolina, 30GW of PV power capacity was found to be economically viable on existing tobacco farms and if conversion took place over 2000 premature ...

The unexpected benefits of replacing tobacco plantations with solar

Researchers at Michigan Technological University suggest that tobacco growers could increase their income by converting their plantations to solar farms.

Economic impact of substituting solar photovoltaic electric production

With the ever increasing importance of meeting the growing electricity demand with sustainable energy, this study analyzed the economic value of converting arable land currently used ...

Economic Impact of Solar vs. Tobacco Farming

This study analyzes key factors influencing conventional tobacco farming ...

Farm sunshine, not cancer: Replacing tobacco fields with solar arrays

Researchers contend that tobacco farmers could increase profits by converting their land to solar farms, which in turn provides renewable energy generation.

Economic and Environmental Feasibility of Solar Photovoltaic ...

This study presents a comprehensive

economic and environmental analysis of the transition from conventional wood-fired to solar photovoltaic (PV) integrated tobacco curing systems in Zimbabwe.

Economic Impact of Solar vs. Tobacco Farming

This study analyzes key factors influencing conventional tobacco farming economics in the U.S. over a sensitivity of realistic future values. Then tobacco crop profit is compared to a sensitivity analysis ...

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