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Benefits of Bioenergy for the Sustainable Development of Sudan

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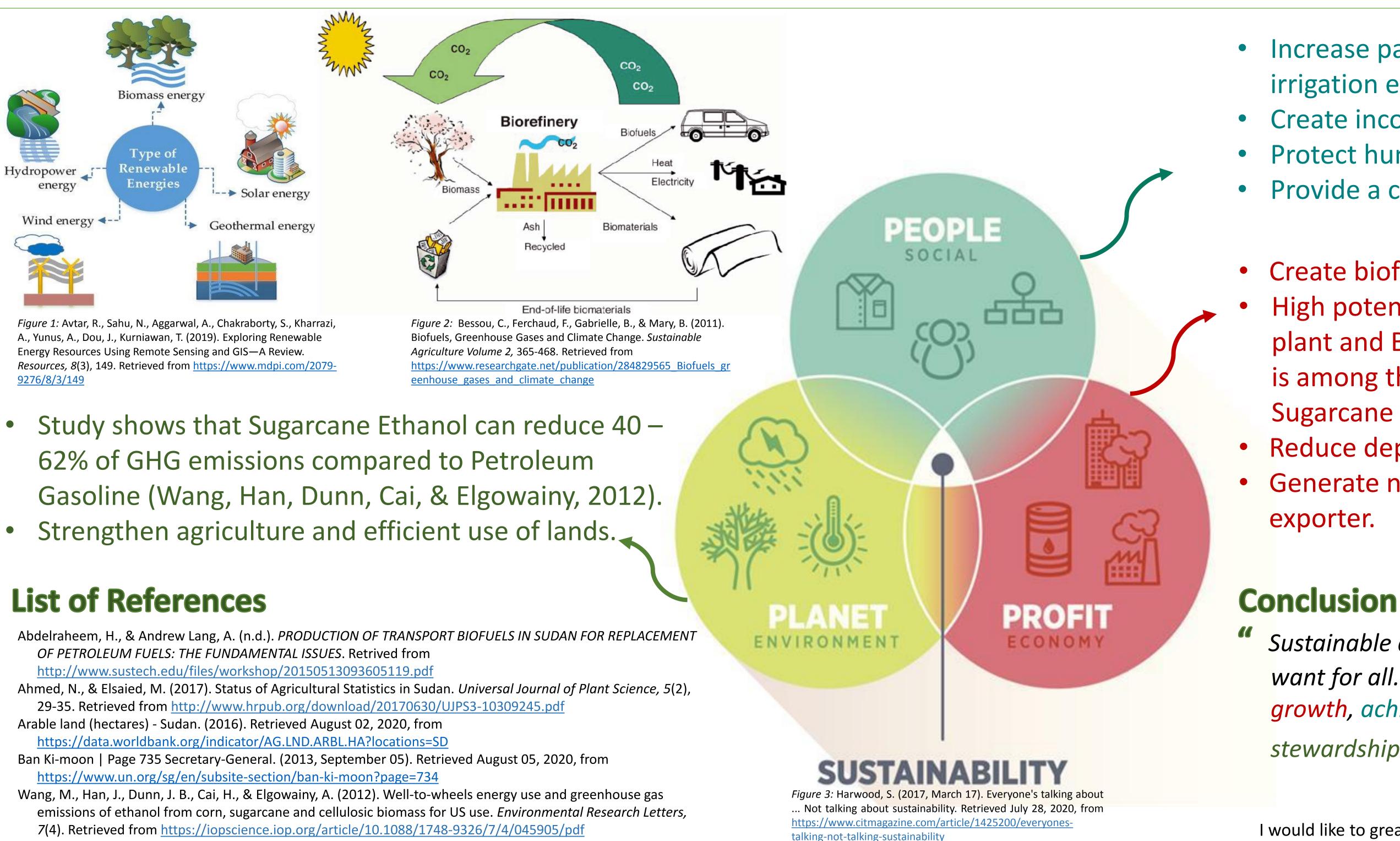
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FULBRIGHTBenefits of Bioenergy for the Sustainable Development of Sudan Syracuse University By: Arwa Ibrahim, Aug 7th 2020

Abstract

This poster discusses bioenergy and its potential benefits for Sudan's Sustainable Development.

Here are some important statistics. Not only is more than 70% of Sudan's population engaged in agriculture, but 45 % of Sudan's GDP comes Introduction from agriculture (Ahmed & Elsaied, 2017). Furthermore, Sudan is among the top twenty largest countries with arable lands ("Arable land"). (hectares) – Sudan," 2016). In light of these facts, it is clear that Sudan could be able to use its fertile lands efficiently to produce bioenergy as a renewable energy source with which it can tackle many of the country's energy challenges. Sustainable development, a form of socioeconomic development that is conducted without depleting a country's natural resources, is an important consideration. With this in mind, sustainable development using bioenergy as a renewable energy source can benefit Sudan's environment, society and economy.



- 7(4). Retrieved from https://iopscience.iop.org/article/10.1088/1748-9326/7/4/045905/pdf

Increase participation of women in agriculture and irrigation especially in rural areas. Create income & employment opportunities. Protect human health from harmful fossil fuels. Provide a continuous supply of biofuels.

• Create biofuel production industries. High potential to produce Biodiesel from Jatropha plant and Bioethanol from Sugarcane, since Sudan is among the largest African countries that produce Sugarcane (Abdelraheem & Lang, n.d.) Reduce dependence on foreign imports.

Generate new revenue streams by becoming energy exporter.

Sustainable development is the pathway to the future we want for all. It offers a framework to generate economic growth, achieve social justice, exercise environmental

stewardship and strengthen governance.

~ (Ban Ki-moon, 2013)

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