

Biomass And Biofuel

Feedstock

End User

Transportation

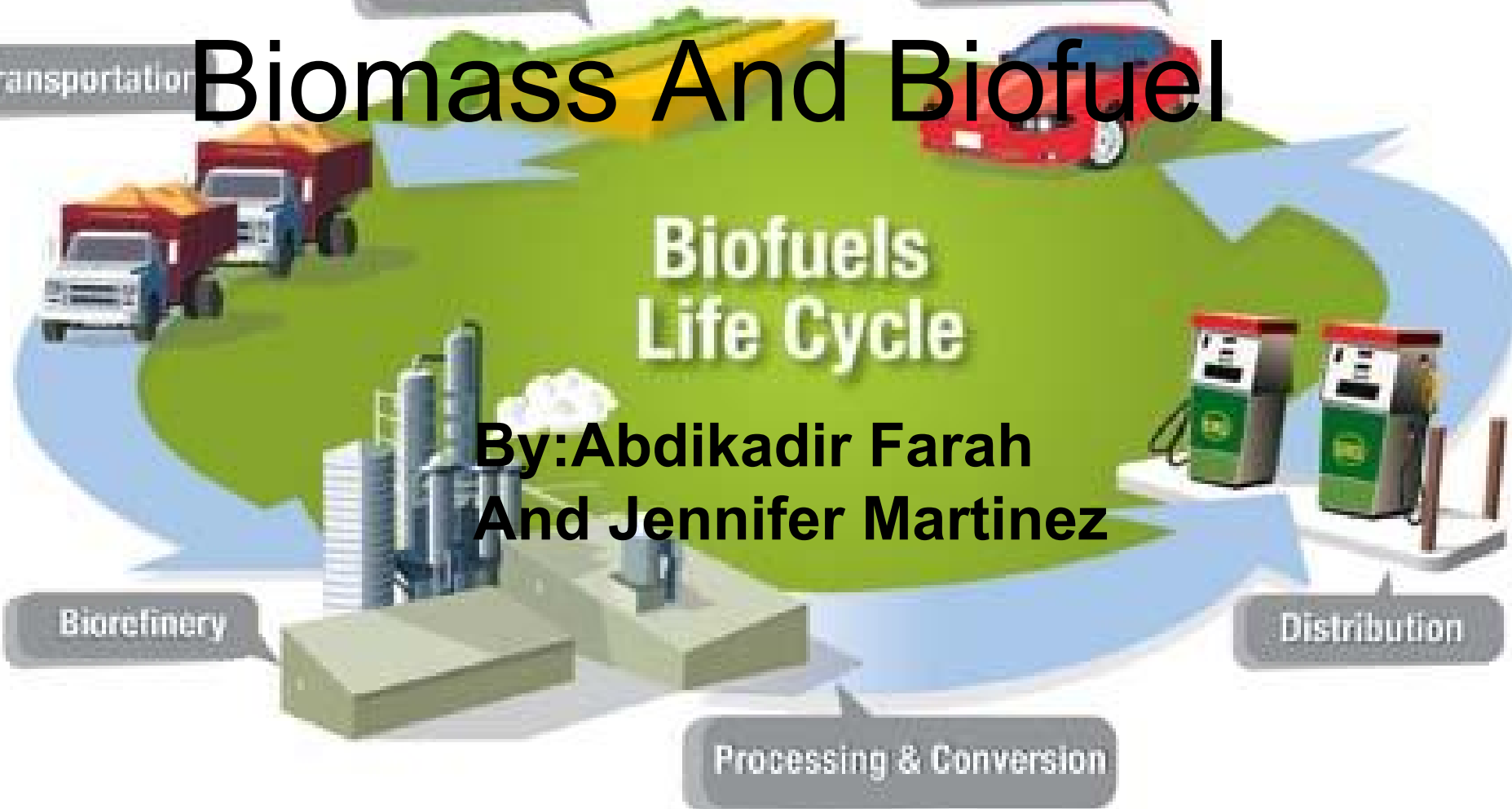
Biofuels
Life Cycle

By: Abdikadir Farah
And Jennifer Martinez

Biorefinery

Distribution

Processing & Conversion



What Is The Main Goal Of The Energy Technology ?

- Uses biomass to produce electricity to reduce our reliance on fossil fuels|
- Our supply of biomass is renewable, meaning it will not run out.

What Are The Social, Economic, and Environmental consequences of this energy?

1. Expensive
2. Inefficient as Compared to Fossil Fuels
3. Harmful to Environment
4. Require More Land

How does it work/ function/operate?

Biomass is a renewable energy source not only because the energy in it comes from the sun, but also because biomass can re-grow over a relatively short period of time compared with the hundreds of millions of years that it took for fossil fuels to form. Through the process of photosynthesis, chlorophyll in plants captures the sun's energy by converting carbon dioxide from the air and water from the ground into carbohydrates—complex compounds composed of carbon, hydrogen, and oxygen. When these carbohydrates are burned, they turn back into carbon dioxide and water and release the energy they captured from the sun.

positive and negative comments

Positive

- Electricity produced by biomass reduces the threat of global climate change
- Using biomass waste eliminates the need to place it in landfills
- Clearing biomass from wooded areas helps prevent forest fires

Negative

has a negative effect because the amount of water need to irrigate biofuel crops like corn ca it a strain on local water supplies

It has led to massive amounts of deforestation

Citation

<http://www.energy.ca.gov/biomass/index.html>

<http://www.nrdc.org/energy/renewables/biomass.asp>