

Natural Resources



Renewable vs. Non-renewable

- *Renewable energy sources can be replenished in a short period of time. The five renewable sources used most often are: **Solar, Wind, Biomass, hydropower and geothermal.***
- *Non-renewable energy sources can not be replenished (made again) in a short period of time such as **coal, oil and natural gas.***

Traditional Energy Sources

- **Oil**
- **Coal**
- **Natural Gas**

Positives:

- **Low Cost**

Negatives

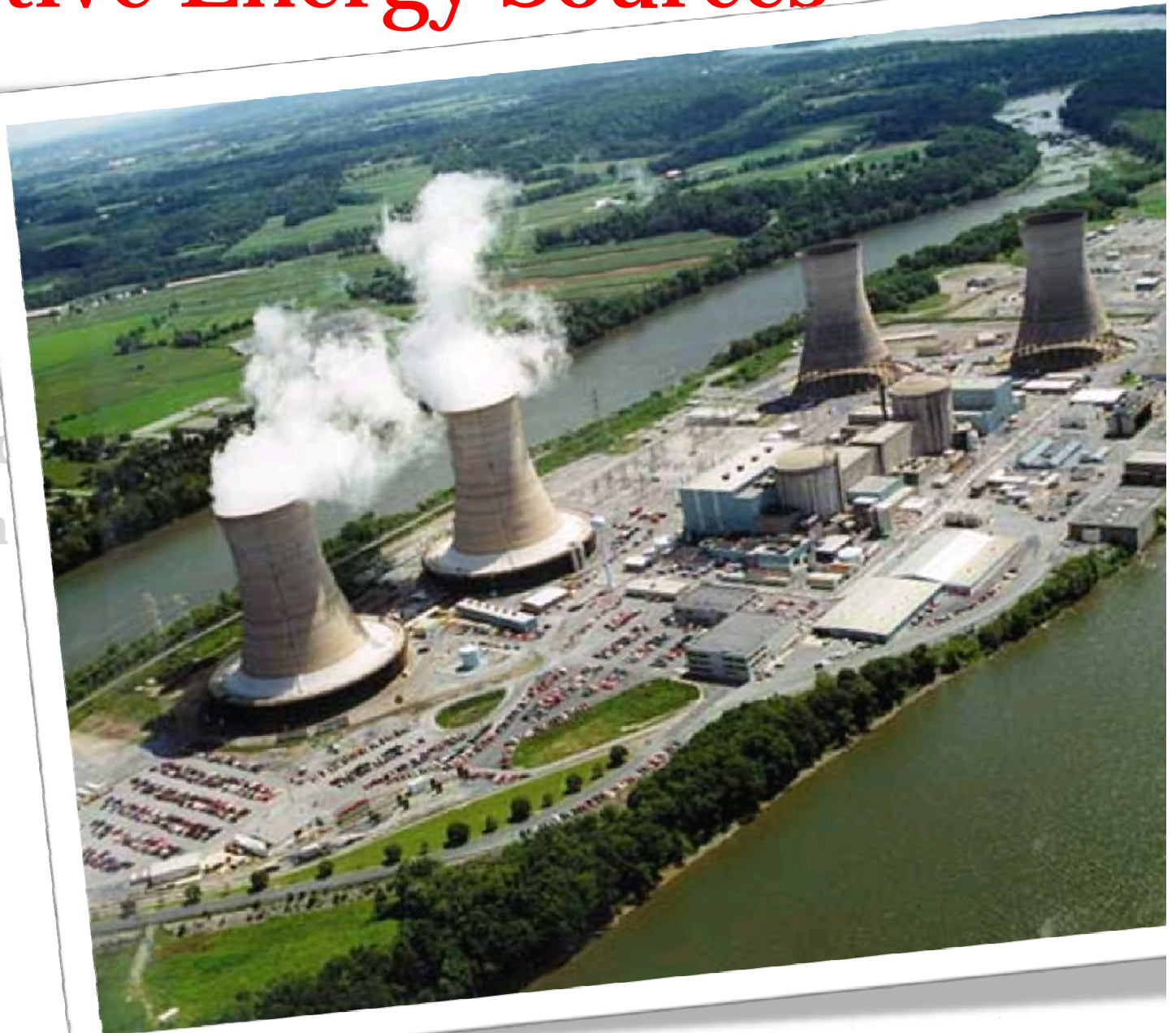
- **Not Sustainable**
- **Environmental impact**
- **CO₂ Emissions**

Alternative Energy Sources

- **Nuclear**
- **Solar**
- **Wind**
- **Geothermal**
- **Hydroelectric**
- **Hydrogen Fuel**
- **Biodiesel**

Alternative Energy Sources

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- Solar
- Wind
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Alternative Energy Sources

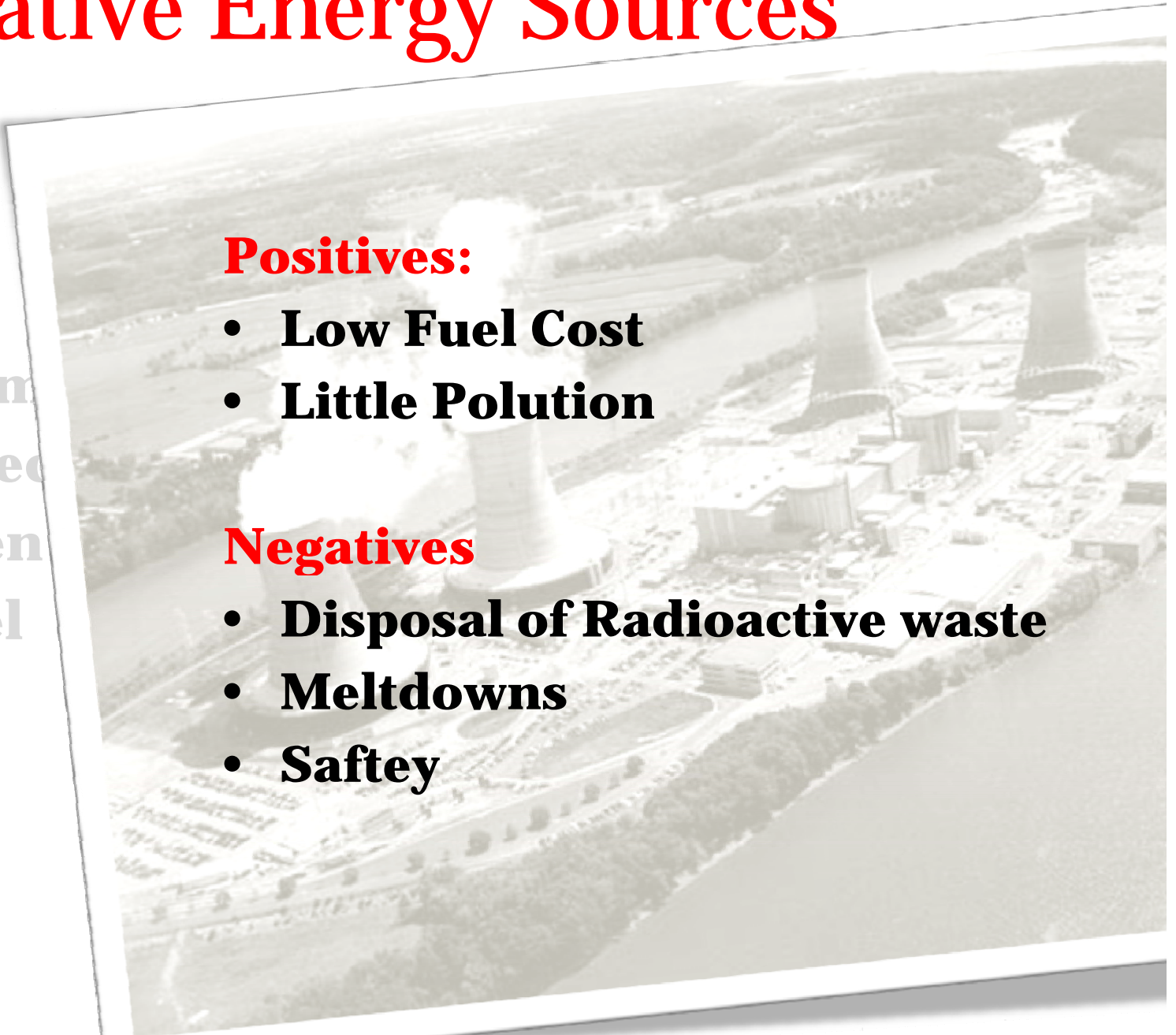
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Positives:

- **Low Fuel Cost**
- **Little Pollution**

Negatives

- **Disposal of Radioactive waste**
- **Meltdowns**
- **Safety**



Alternative Energy Sources

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Alternative Energy Sources

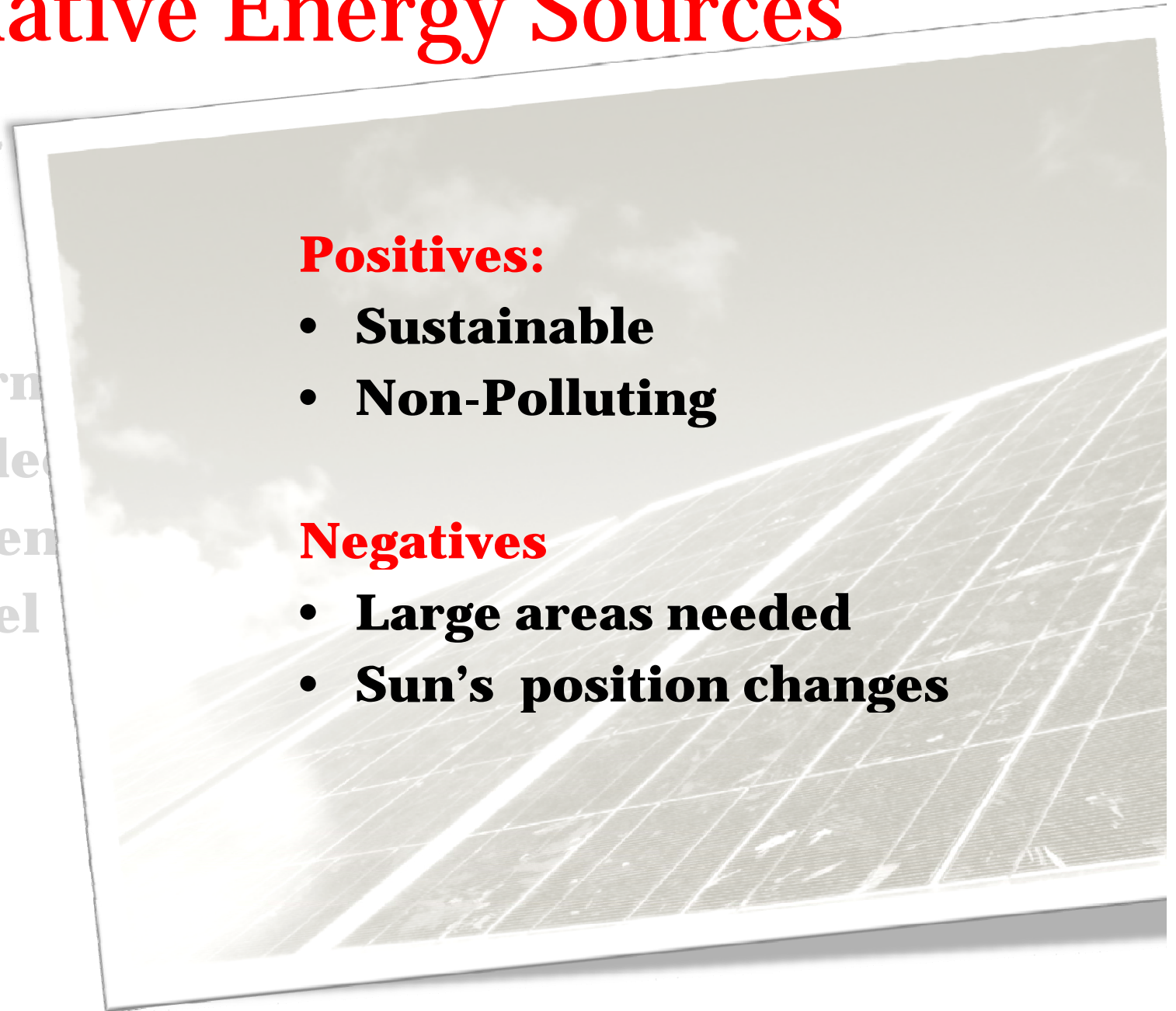
- Nuclear
- **Solar**
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Positives:

- **Sustainable**
- **Non-Polluting**

Negatives

- **Large areas needed**
- **Sun's position changes**



Alternative Energy Sources

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Alternative Energy Sources

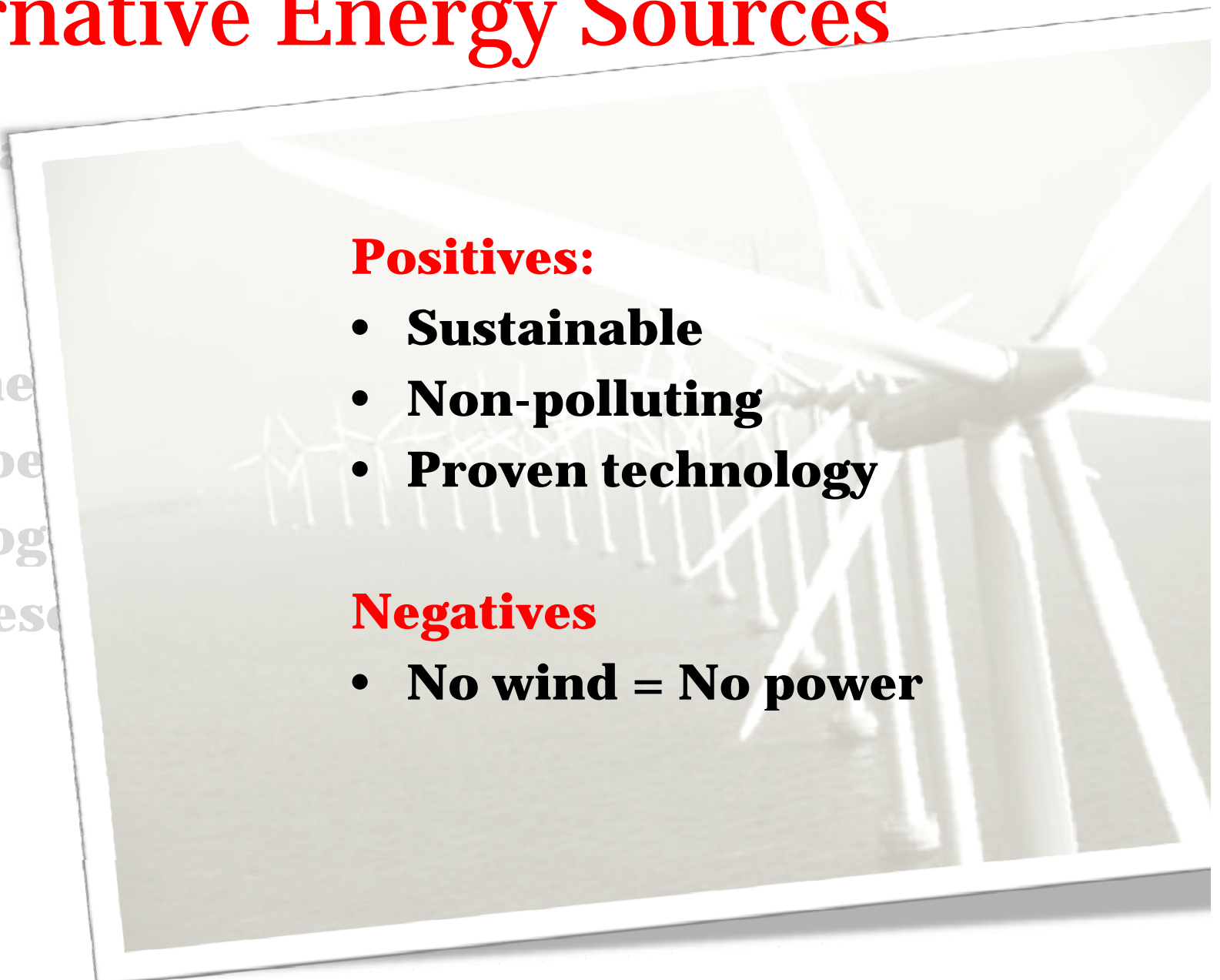
- Nuclear
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Positives:

- **Sustainable**
- **Non-polluting**
- **Proven technology**

Negatives

- **No wind = No power**



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Positives:

- **Sustainable**
- **Non-polluting**
- **No environmental impact**

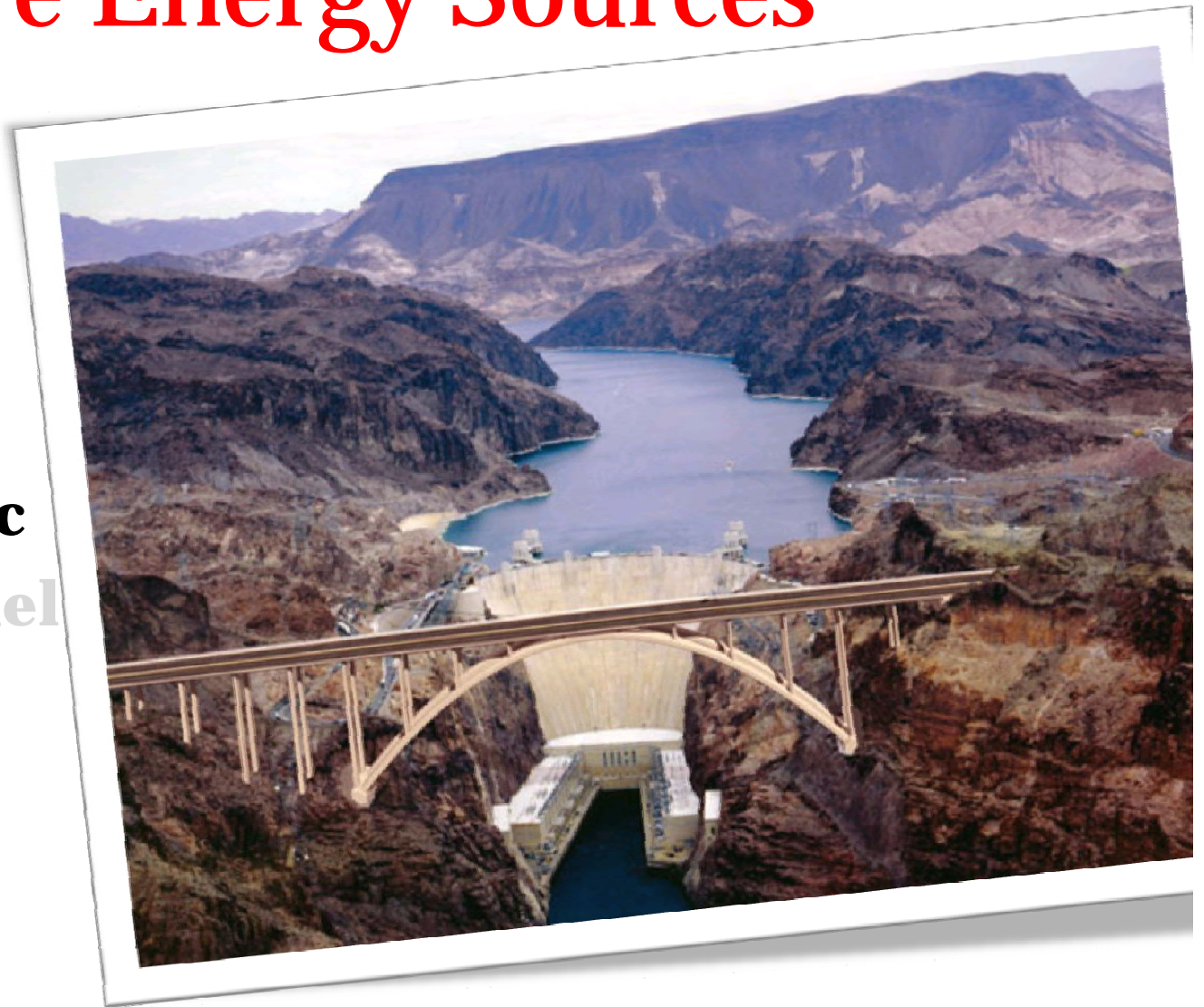
Negatives

- **Only available near volcanic activity**



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Alternative Energy Sources

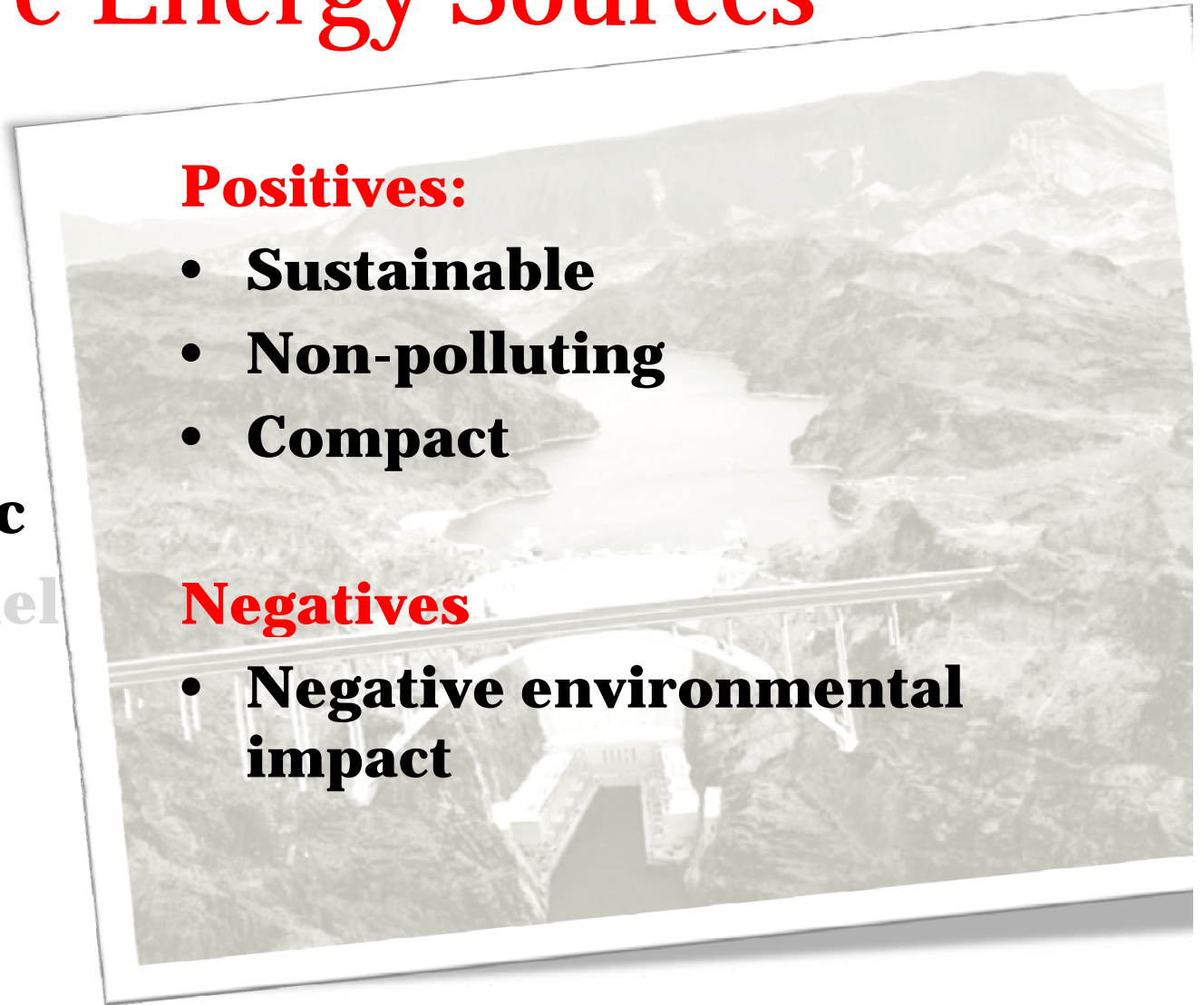
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Positives:

- **Sustainable**
- **Non-polluting**
- **Compact**

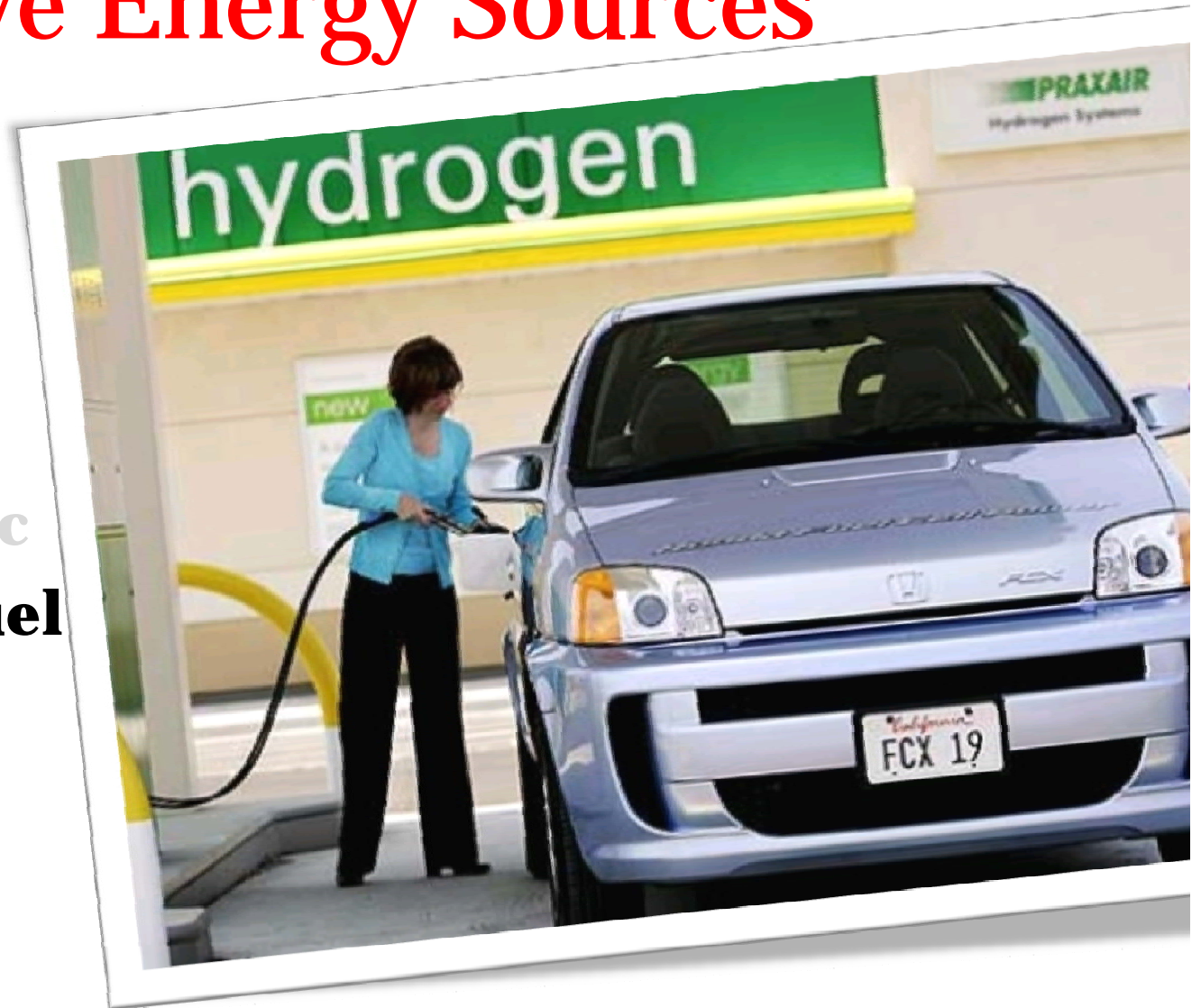
Negatives

- **Negative environmental impact**



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Alternative Energy Sources

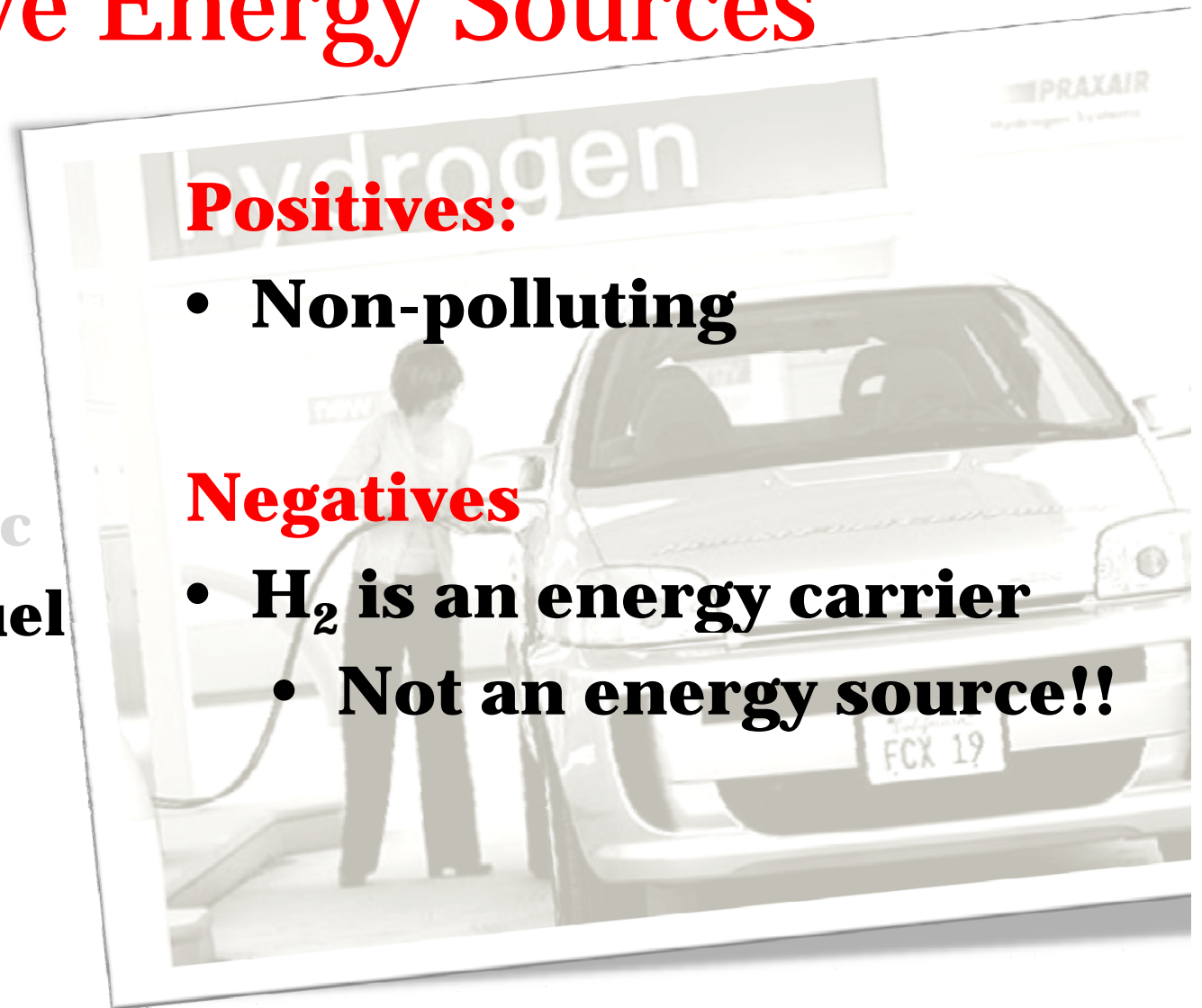
- Nuclear
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Positives:

- **Non-polluting**

Negatives

- **H₂ is an energy carrier**
 - **Not an energy source!!**



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Alternative Energy Sources

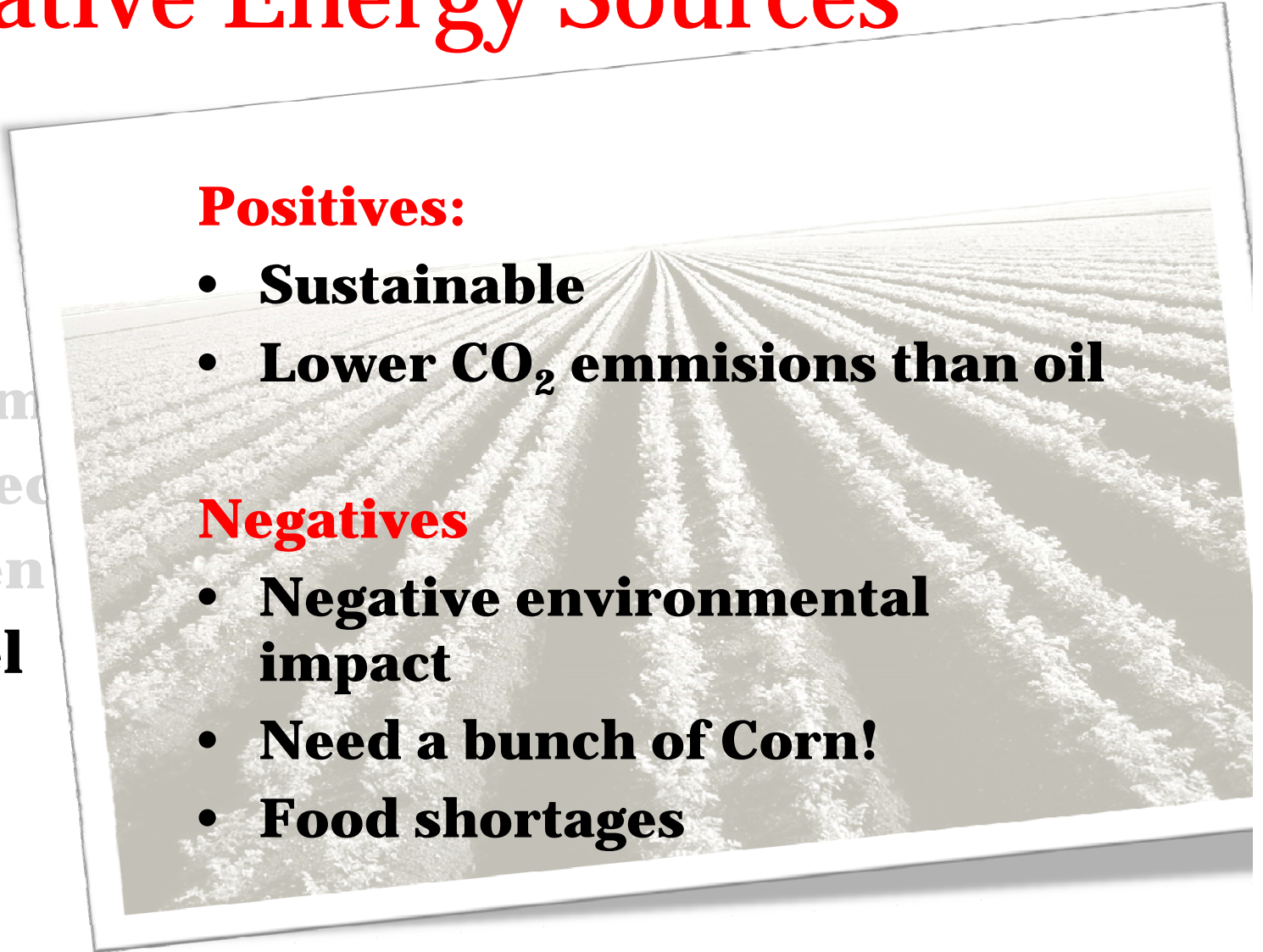
- Nuclear
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Positives:

- **Sustainable**
- **Lower CO₂ emissions than oil**

Negatives

- **Negative environmental impact**
- **Need a bunch of Corn!**
- **Food shortages**



Why do we need alternative energy resources?

- ...the world's environment is being destroyed at an alarming rate by excessive consumption of resources worldwide. This unfortunate situation is already destroying the environment and will only get worse day by day, and will continue to destroy many more existing life forms and ecosystems if we don't find ways to alter world priorities.