

The South Sea Company (A)

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Conclusion

Nearly half of the electricity generated in the United States is produced from coal. By using coal to produce electricity we are burning large amounts of coal, and producing more harmful pollutants than any other source. Other sources (solar, hydro, wind, and nuclear) are producing electricity, but should not be used as a primary source to fulfil the needs for the other production. It will offset some of the disadvantages.

Alternatives for coal

- Nuclear energy
- Wind energy
- Hydro energy

Disadvantages of coal

- Greenhouse gas emissions
- Harmful waste emissions

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Introduction about coal mining

- Process about coal mining:
- Extraction Process
 - Transportation
 - Separation process
 - Usage

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Advantages of coal mining

- Employment
- Infrastructure

Disadvantages of coal mining

- Landslides
- Loss of aesthetic value
- Dust and noise
- Coal mining deaths
- Pollution occurs from transportation



Advantages of coal

- Abundance
- Continuous, predictable source of energy
- Larger potential compared to other fossil fuels



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Process about coal mining:

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Conclusion

Nearly 70% of the electricity generated in the United States is produced by burning coal. By using coal to produce electricity we are burning large amounts of coal, and producing more harmful waste than we have more than any other fuel source. Coal, hydro, wind, and nuclear can produce electricity, coal should still be used but in a smaller scale to fill the needs for the other production, it will offset most of the disadvantages.

Alternatives for coal

- Solar energy
- Wind energy
- Hydro energy

Disadvantages of coal

- Greenhouse gas emissions
- Harmful waste emissions

Bibliography

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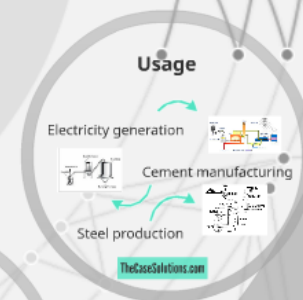
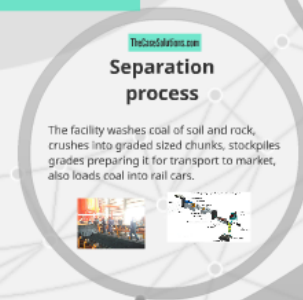
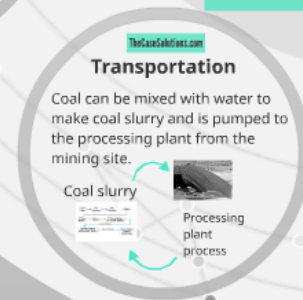


Advantages of coal

- Abundance
- Continuous, practical, reliable source of energy
- Large potential compared to other fossil fuels

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Extraction Process

Surface Mining



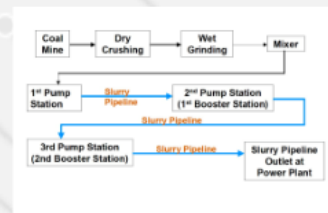
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Underground mining

Transportation

Coal can be mixed with water to make coal slurry and is pumped to the processing plant from the mining site.

Coal slurry

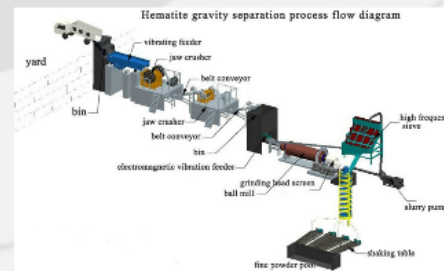


Processing
plant
process

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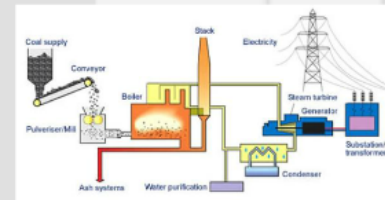
Separation process

The facility washes coal of soil and rock, crushes into graded sized chunks, stockpiles grades preparing it for transport to market, also loads coal into rail cars.

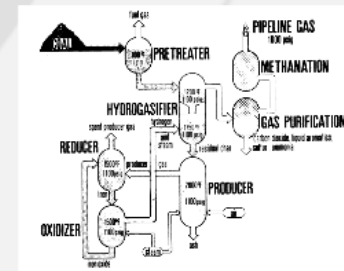


Usage

Electricity generation



Cement manufacturing



Steel production

Advantages of coal mining

- Employment
- Infrastructure

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Employment

The industry employs around 41,000 people, paying out salaries worth around \$6 billion a year. This has a positive effect on the lives of many Australians. Numerous business and services that support, supply and rely on the coal industry and you can add another 111,000 Australian jobs to this figure.

Infrastructure

The mining industries contributes hundreds of millions of dollars of developing local communities. This includes building, improving or maintaining essentials such as roads, railways, ports, etc. and more within those local communities that coal industry is a part of. All of this helps to create even more jobs outside the mining industry.

Disadvantages of coal mining

- Landslides
- Loss of aesthetic value
- Dust and noise
- Coal mining deaths
- Pollution occurs from transportation

Landslides

In West Bengal, India people are being displaced in huge numbers as the hollowing of the earth due to underground coal mining has made those places unsafe as the land caves in without any warning.



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Coal mining deaths

Coal mining has resulted in thousands of deaths each year ever since man discovered coal. Coal Deaths happen not only in countries which don't have good safety regulations like China but also in developed countries like USA and New Zealand.

Loss of aesthetic value

Surface coal mining resulted in destruction of the habitat and scenery. It leads to pollution of air and water surrounding the mines. Those burning underground are hard to find and many cannot be stopped. Fires can cause the ground to fall, their gases are dangerous to life, and breaking out to the surface can start surface fires as well.



Dust and noise

Dust at mining operations can be caused by trucks being driven on unsealed roads, coal crushing and drill operations and wind blowing over areas. Dust levels can be controlled by spraying water on roads, stockpiles and conveyors. Noise can be controlled through the selection of equipment sound enclosures around machinery.

