



# Introduction to Coal Geology

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# Introduction to Coal

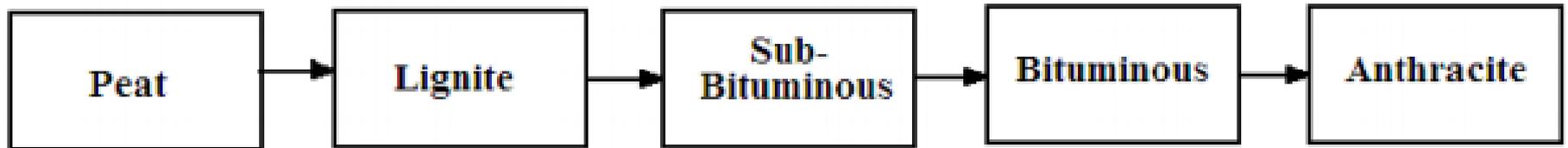
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- What is Coal?
  - Rock? Or Mineral?
  - Coal is a unique rock type in the geological column, it has a wide range of chemical and physical properties.
  - The principal uses of traded coals worldwide is for electricity generation and steel manufacture, with other industrial users and domestic consumption making up the remainder.

# Origin of Coal

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- Stages in coal Formation
  - Biochemical Stage
  - Geochemical Stage



# Origin of Coal

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- Hilt's Law
- Schurmann's Rule
- Insitu Theory
- Drift Theory

# Origin of Coal

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## ➤ Insitu Theory

- Huge amount of plant material accumulating in situ in present day swamps
- Many fossilised tree trunk are found standing erect
- The under clays found to be poor in alkalies
- Relative purity of coal seams
- Lenses of cannel coal are often found bituminous coal seams

# Origin of Coal

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## ➤ Drift Theory

- Large quantities of timber and tree trunk being transported in downstream by present day rivers
- Beds of peat and lignite are found in present day of some deltas
- Some coal measures found associated with marine fossils
- Coal seams are associated with sedimentary rocks and they itself behave like sedimentary beds
- Fire clays are found non associated with coal at many places
- Clays are mostly absent in many coal seams and coal lie directly on sandstone, shales or conglomerates

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Any Questions??

Thank You !!!

