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Preparation. To transform the coal ash
into a slurry, coal is separated from
non-combustable components and can

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The plan, proposed by the New York
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The fact that this solar farm is being
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represents a growing commitment by
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Concern over the effects of airborne pollution, green house gases, and the

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pollutants from coal-burning power plants. Coal is the dirtiest of all fossil fuels. When burned, it produces emissions that contribute to global warming, create acid rain, and pollute water. With all of the interest and research surrounding nuclear energy, hydropower, and biofuels, many think

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that coal is finally on its way out. However, coal generates half of the electricity in the United States and throughout the world today. It will likely continue to do so as long as it's cheap and plentiful [Source: Energy Information Administration]. Coal provides stability in price and

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Coal power is a major cause of air

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Mark Twain observed, "I'm in favour of progress; it's change I don't like." Coal dominates Indian energy because it's available domestically and cheap

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(especially without a carbon tax). If the global focus is on the energy transition, how does India ensure a just transition? Managing winners and losers will be the single largest challenge for India's energy policy. Coal is entrenched in a complex ecosystem. In some states, it's

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amongst the largest contributors to state budgets. The Indian Railways, India's largest civilian employer, is afloat because it overcharges coal to offset under-recovery from passengers. Coal India Limited, the public sector miner that produces 85% of domestic coal, is the world's largest

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coal miner. But despite enormous reserves, India imports about a quarter of consumption. On the flip side, coal faces inevitable pressure from renewable energy, which is the cheapest option for new builds. However, there is significant coal-based power capacity already in place,

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some of which is underutilized, or even stranded. Low per-capita energy consumption means India must still grow its energy supply. Before India can phase out coal, it must first achieve a plateau of coal. How this happens cost-effectively and with least resistance isn't just a technical or

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Production question, it depends on the political economy of coal and its alternatives. Some stakeholders want to kill coal. A wiser option may be to first clean it up, instead of wishing it away. Across 18 chapters, drawing from leading experts in the field, we examine all aspects of coal's future in

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India. We find no easy answers, but
attempt to combine the big picture with
details, bringing them together to offer
a range of policy options.

Gasification involves the conversion of
carbon sources without combustion to
syngas, which can be used as a fuel

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itself or further processed to synthetic fuels. The technology provides a potentially more efficient means of energy generation than direct combustion. This book provides an overview of gasification science and engineering and the production of synthetic fuels by gasification from a

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variety of feedstocks. Part one introduces gasification, reviewing the scientific basis of the process and gasification engineering. Part two then addresses gasification and synthetic fuel production processes. Finally, chapters in part three outline the different applications of gasification,

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