**Product / Service:** Utilities & Fuel

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| --- | --- | --- | --- |
|  | **Negative Impacts / Risks** |  | **Positive Opportunities** |
| **Environmental** | * Finite natural supply e.g. fossil fuels
* Mining / extraction activity creates dust pollution, scarring of the landscape and loss of natural habitats
* Processing activity creates waste, air pollution, water pollution & waste gases (e.g. carbon monoxide, acidic gases)
* Energy & water use in mining & processing activity (carbon impact / natural resources / cost)
* Vehicle fuel & emissions (carbon impact) – international deliveries
* Disposal of waste products –landfill impact (including hazardous waste)
 | * Consider renewable energy sources e.g. solar panels, wind turbines, hydro
* Education of staff / students to conserve energy e.g. turning off lights when leaving a room / selecting energy efficient equipment (e.g. EnergyStar)
 |
| **Social** | * International supply chains (potential for issues such as child labour / poor pay & working conditions / health and safety breaches)
* Dust & noise from mining & processing activity
* Frequency & timing of deliveries – congestion & noise impacting residents
 | * Job creation in the developing world
* Apprenticeship opportunities
* Consolidated orders & deliveries
 |
| **Economic** | * Renewable energy sources may be more expensive, or have a longer pay-back period
* Balance of supply and demand resulting in prices rises and unpredictable fluctuations
 | * Consider whole life cost of energy sources
* Potential revenue generation e.g. selling energy back to the national grid
* Communities in the developing world benefit from mining revenues
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**RELATED PROC HE:** JA / JB / JC / JD / JE / JZ / VG