**ECONOMIC ANALYSIS**

- **CAPEX Value:** $22.6M
- **OPEX Value:** $3.1M
- **Payback:** 4.5 Years
- **NPW:** $89M
- **IRR:** 13%
- **Inflation:** 2%

**SOCIETAL NEEDS**

H₂SO₄ is a widely produced commodity chemical used in:

- Fertilizer Production
- Contaminant Removal in Water Treatment Processes
- Leaching in Mineral Processing

**PLANT LAYOUT**

- **Incinerator**
  - H₂S in acid gas is **combusted** at 1000°C to produce SO₂ and H₂O

- **Gas Cleaning**
  - H₂O is **removed** to prevent acid formation in downstream equipment

- **Converter**
  - In the four catalyst beds, SO₂ is **oxidized** to form SO₃ at 450°C

- **Acid Tower**
  - SO₃ reacts with water in the acid solution to form H₂SO₄

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