

Air Pollution Control Technology Development: A Utility Perspective



Nick Irvin
Southern Company

Critical Infrastructure Systems

Communications



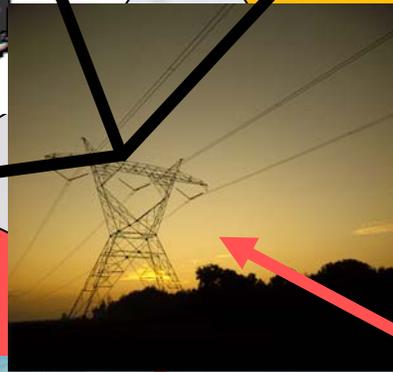
Financial Services



Transportation

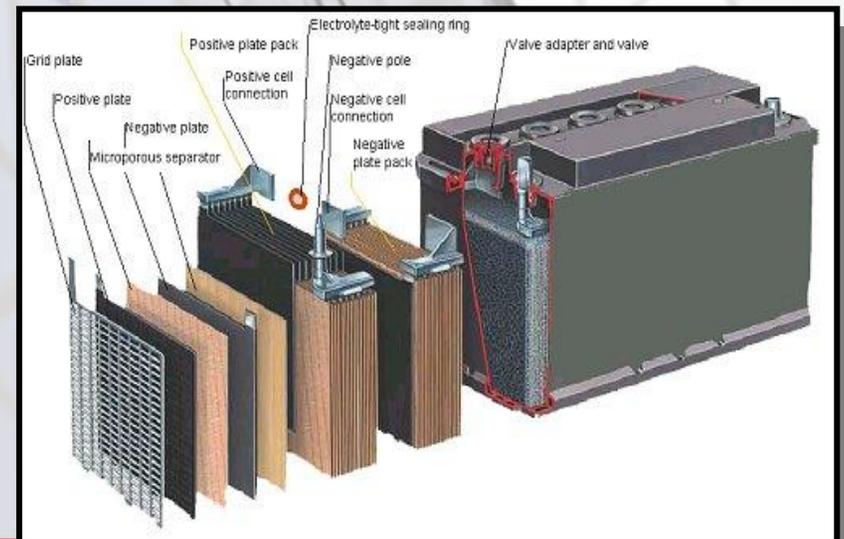


Electric Power



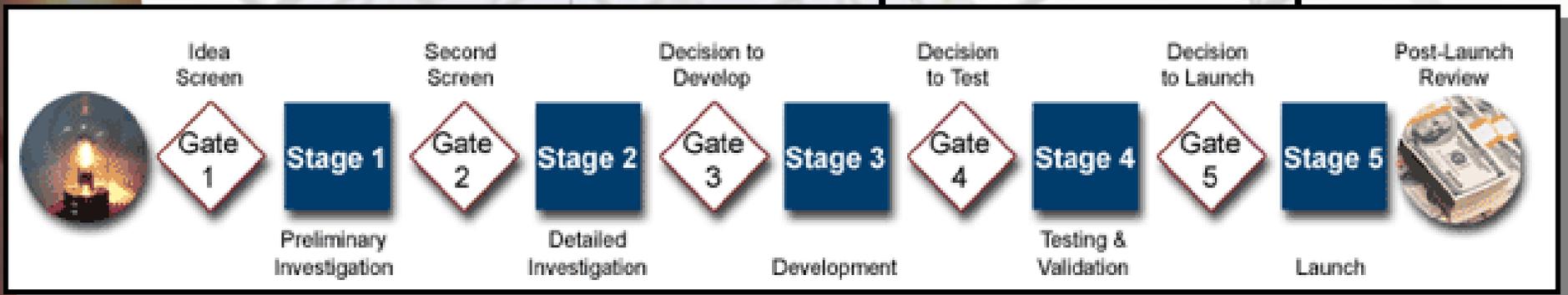
The Utility Industry

- Not like other industries -- cannot store its product
- Need power plant to run exactly when needed
- Low cost energy supply demanded by consumers
- Therefore, utilities require tested, robust, cost effective equipment
- Need better equipment than chemical plants or refineries
- Not a place to rely on unproven processes



New Product Development

- Rich literature in new product development



- Emphasis on testing and validation step for ultimate success
- New drugs, critical airplane and nuclear plant parts require extensive testing
- Emission controls at power plants should be no different

CO₂ C&S Technology State of Development



- All approaches are still in development or testing
- State of the art amine scrubbing is costly, data is limited for coal flue gas
- Multiple sequestration options needed
- Long term demonstration program needed- Phase II

Summary

- Electricity is critical infrastructure system
- Can't store power, so need proven technology
- Low cost energy supply is crucial to economic health
- Thorough technology development required to meet needs of consumers

