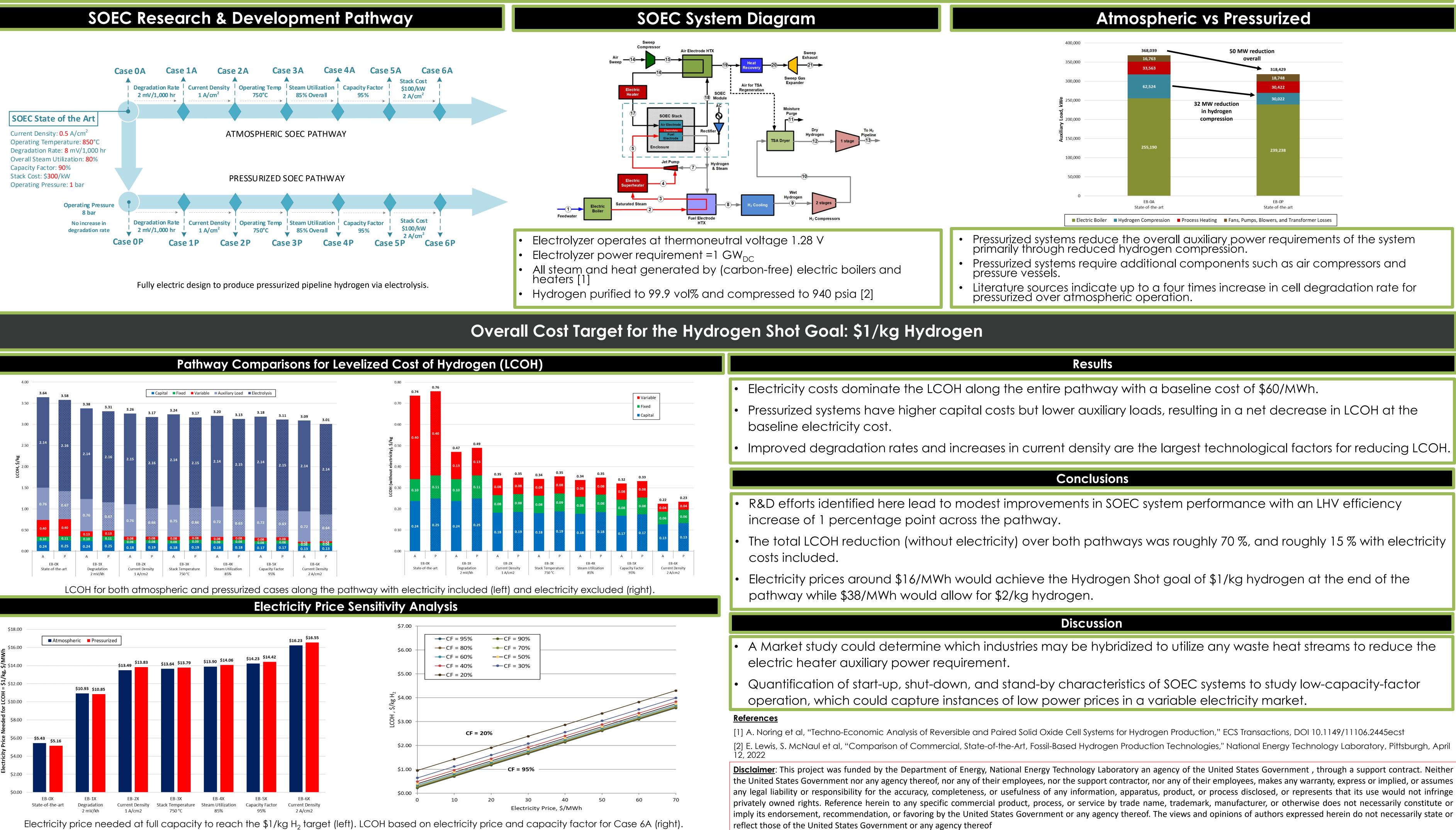
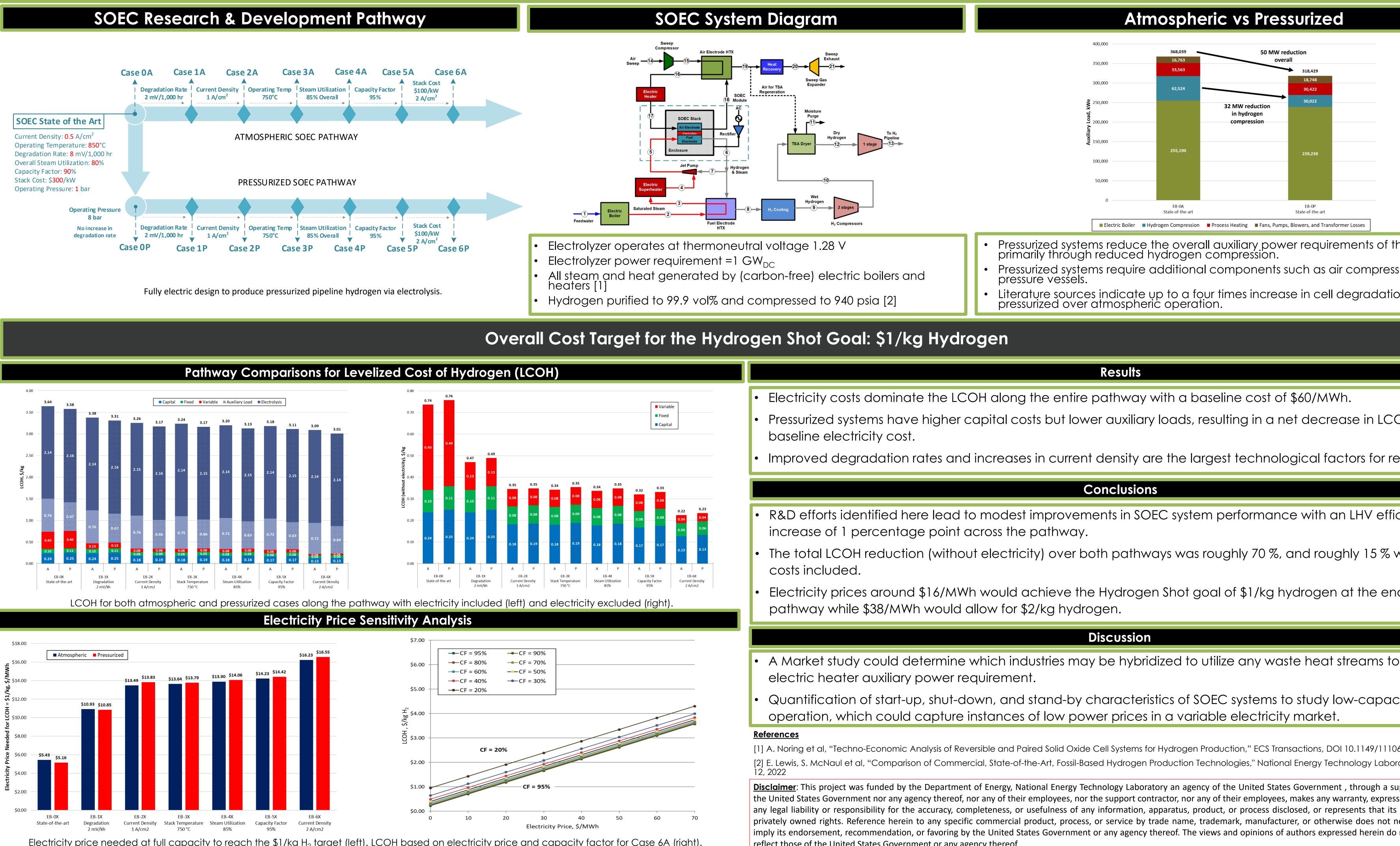
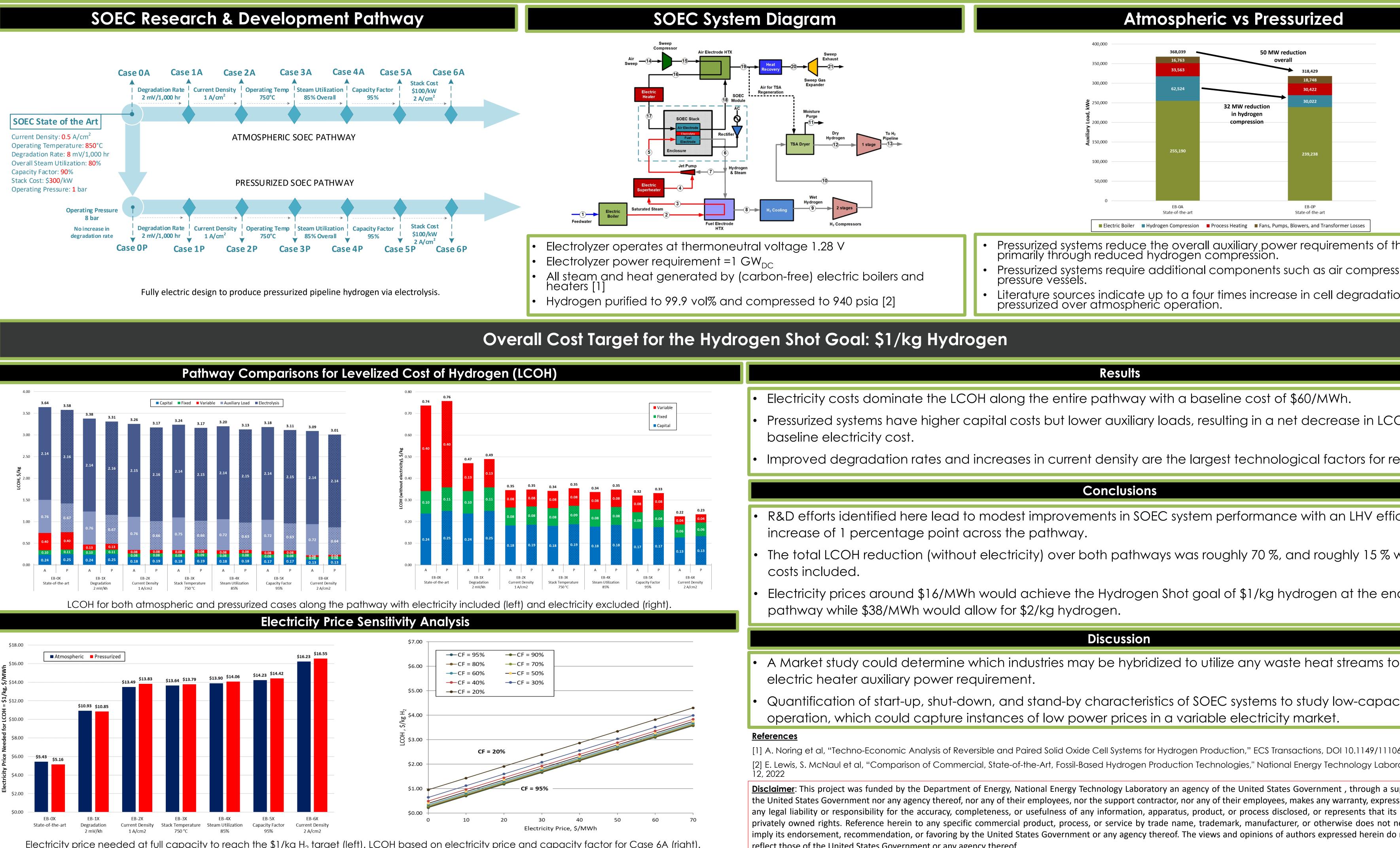
Pathway Study for Large-Scale Hydrogen Production from Solid Oxide **Electrolysis Cell Technology**

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U.S. DEPARTMENT OF NERGY

Objective

This study seeks to elucidate the research and development pathways to reach the Hydrogen at \$1/kg or less via solid oxide electrolysis cell (SOEC) technology. Technoeconomic analyses were carried out to investigate the impact of a series of stepwise technology improvements on the cost and performance of a large-scale 1 GW_e class hydrogen production plant.

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- Pressurized systems require additional components such as air compressors and

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