

TR-402

Economic and Financial Implications of the ZEROS Technology

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A conceptual understanding of the complexity of the ZEROS technology is realized and incorporated into both a base (i.e., benchmark) and a robust scenario analyzed and discussed in this report. The calculated economic and financial feasibility results, based on engineering and chemical factors, suggest that for these scenarios the technology has substantial potential for being profitable. A set of extensive sensitivity results are presented, reinforcing the base conclusions regarding the potential profitability of the ZEROS technology, but also identifying the possibility that variations in values for a combination of the numerous input factors could negatively affect the apparent potential of the technology. Alternatively, energy prices could increase, resulting in a more favorable prospect for the technology. The reported results for the robust scenario materially demonstrate the importance of considering financing, federal taxation, and incentives in detail when considering capital investment projects. Given the data available for the Killeen ZEROS project and the extent of the analyses reported, the ZEROS technology appears to have potential merit as a profitable investment. Additional economic and financial investigations are warranted where system locations or fuel differences or other issues are different than that analyzed in this report.

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