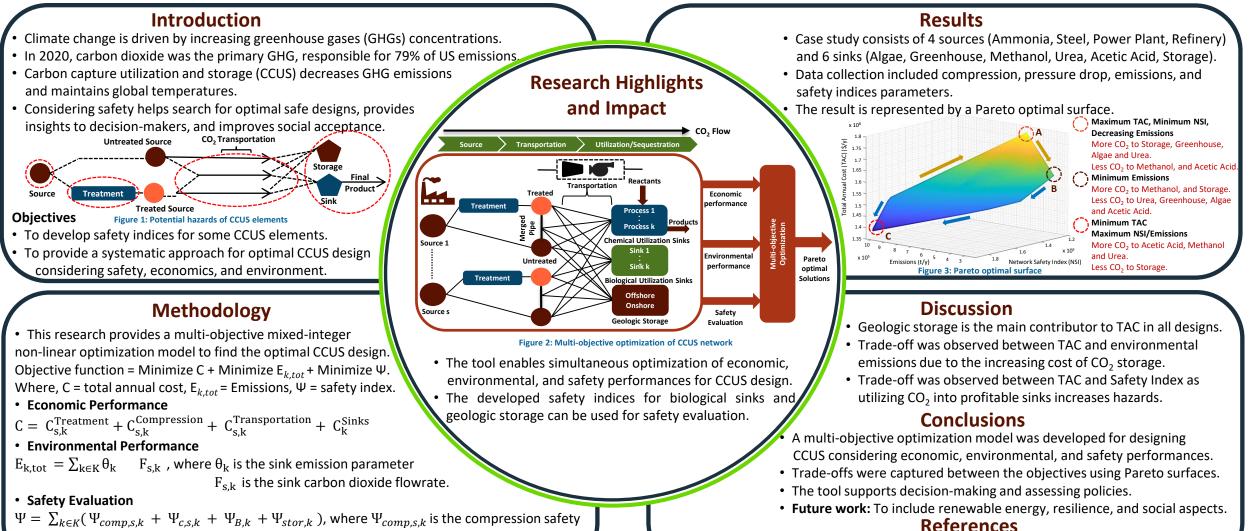


A Holistic Approach to Safe and Sustainable Carbon Capture Utilization and Storage Supply Chains



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$\Psi = \sum_{k \in K} (\Psi_{comp,s,k} + \Psi_{c,s,k} + \Psi_{B,k} + \Psi_{stor,k}), \text{ where } \Psi_{comp,s,k} \text{ is the compression safety index, } \Psi_{c,s,k} \text{ is the chemical sinks safety index, } \Psi_{B,k} \text{ is the biological sinks safety index} \\ \Psi_{stor,k} \text{ is the geological storage safety index.}$

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