

Raghad Adam
PhD candidate in engineering and information technologies

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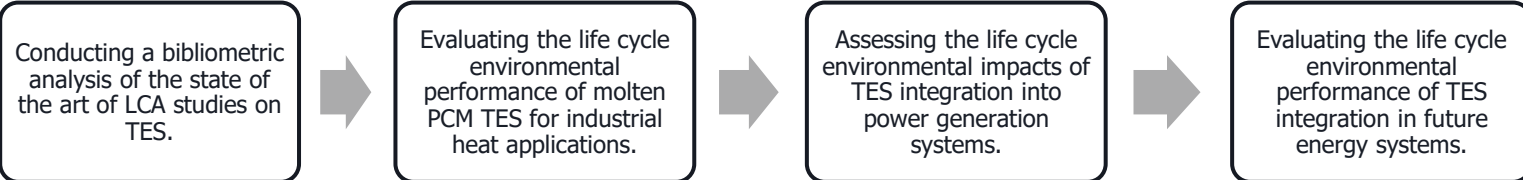
Research topic and interests

My PhD is about life cycle assessment of thermal energy storage systems. I focus on developing life cycle assessments (LCA) for thermal energy storage (TES) systems to support the decarbonization of industrial heat.

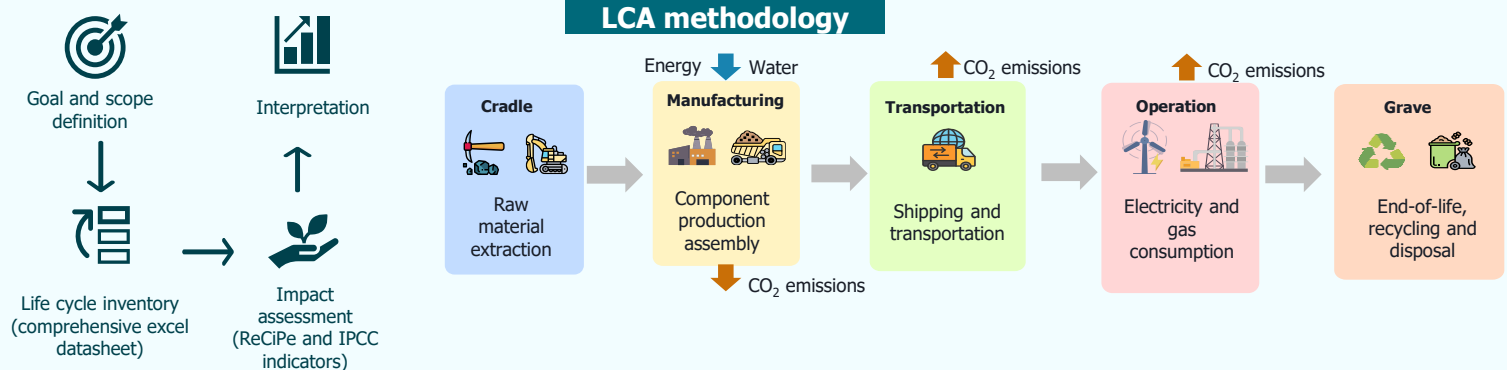
A key objective of this research is to develop a comprehensive LCA framework that provides decision-makers and engineers with a practical tool to identify environmental hotspots and guide sustainable system design.

- Research interests:** Thermal energy storage, zeolite synthesis & TEA/LCA research, carbon capture and sequestration (CCUS), and industrial decarbonization

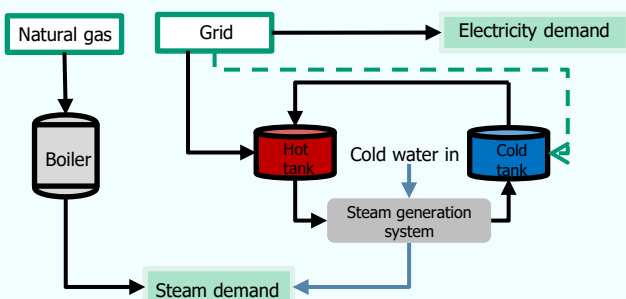
Current work



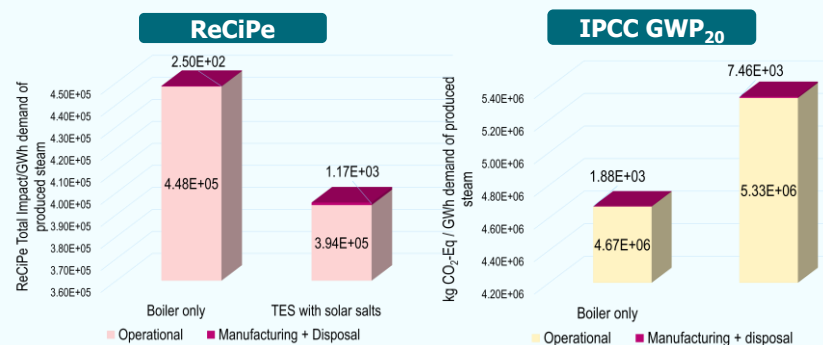
Key areas of expertise



Preliminary results for an LCA of TES with solar salts



Schematic for the LCA showing system with a boiler, TES tank utilizing solar salts and a steam generation plant.



Acknowledgments

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