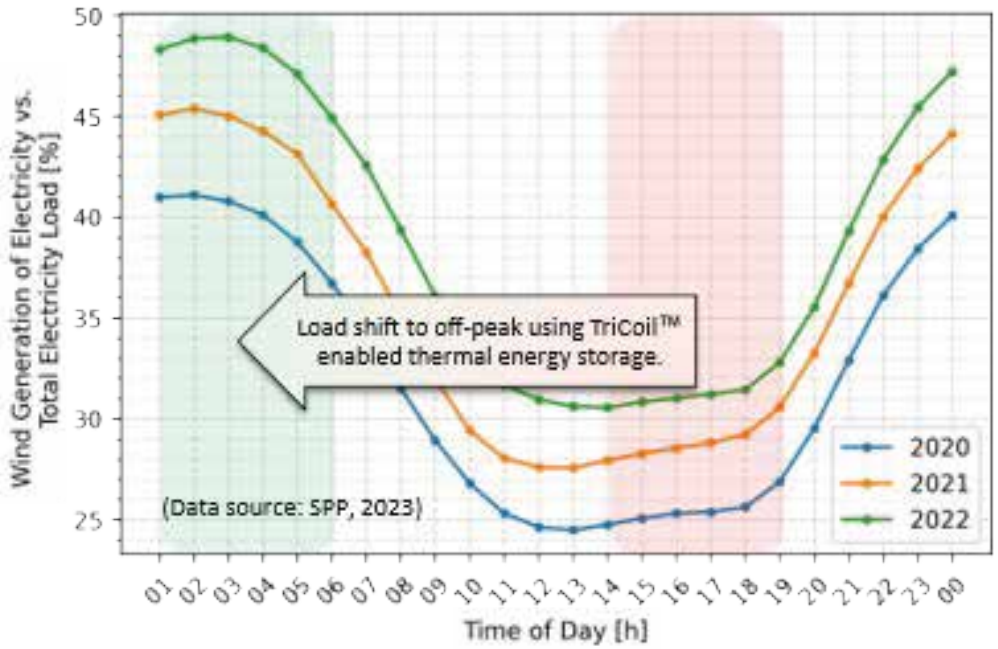
Enabling Thermal Energy Storage to Accommodate Oklahoma Wind Energy- TriCoil as Cost Effective Means for Residential System Integration

Project Number OCAST AR37-22



PROJECT TEAM:

Students: Md Zayed Mostafa, Khaled I. Alghamdi
Faculty: Christian Bach, Jeffrey Spitler

Goal

This Project aimed to evaluate a novel three-fluid fin-and-tube heat exchanger (TriCoil™) for cost effective integration of thermal energy storage with conventional air conditioning or heat pump systems

Outcomes/Deliverables

This project aimed to deliver:

1. Evaluation of technical feasibility through a prototype system
2. Economic viability through in-depth coupled building and thermal storage simulation study