

Development of mobile sorption thermal energy storage system

Status: Available

Group Members:

Sponsor(s):

Supervisor(s): Dr. Majid Bahrami, PhD, P.Eng., Professor, Mechatronic Systems Engineering

Project Description

A research project is underway in collaboration with major industrial and municipal partners to develop new mobile thermal energy storage (M-TES) technology with enhanced energy storage density and efficiency.

Low-temperature thermal demands of buildings are widely met by consuming high-grade electric energy, while abundant low-grade thermal energy is available in the form of industrial waste heat, geothermal, and solar energy. Limited local resources and lack of economic and efficient solution for thermal energy transportation from the available heat sources to the demand site are the main reasons for lack of proper low-

Asset: