

A yellow lightbulb with a black filament, hanging from a black cord that loops across the top of the page. The lightbulb is glowing with yellow rays.

# FACT SHEET

DATA-DRIVEN  
RESEARCH INFRASTRUCTURE  
ENERGY MANAGEMENT

Potential energy storage  
technologies (WP3)



# Motivation:

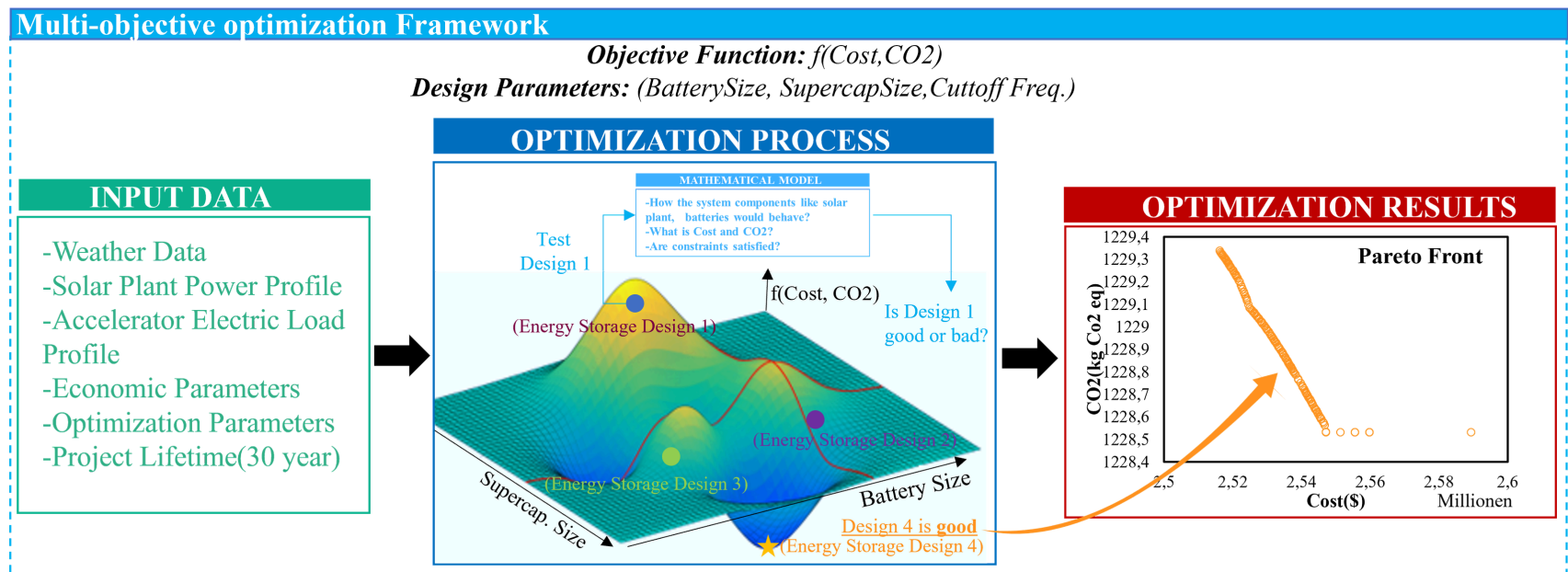
## Making science green and sustainable

Let's go green by  
integrating  
renewable energy  
and energy  
storage



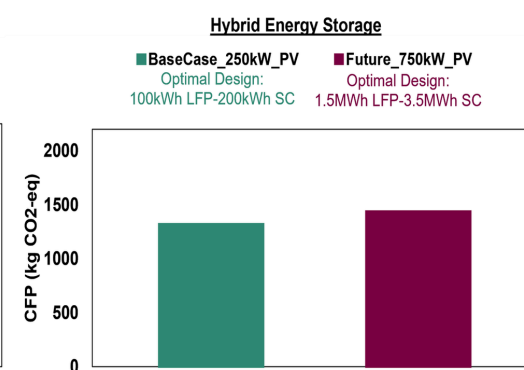
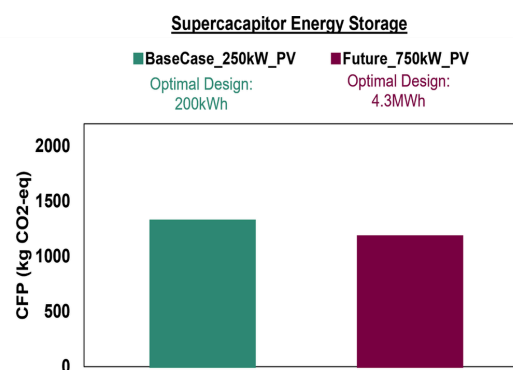
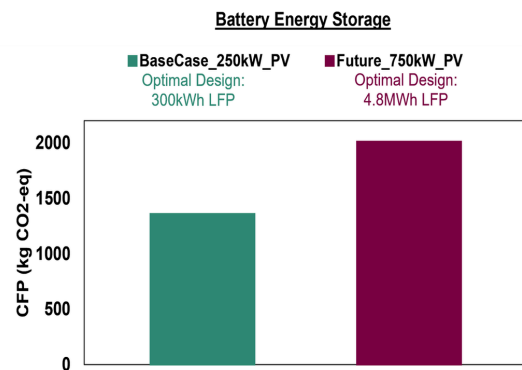
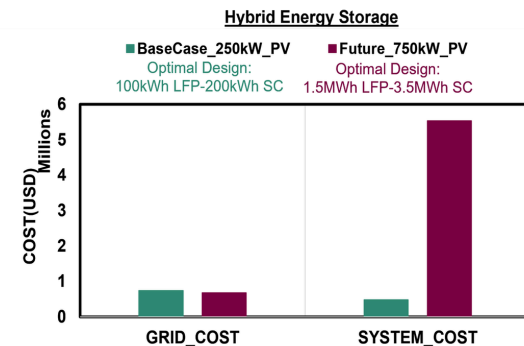
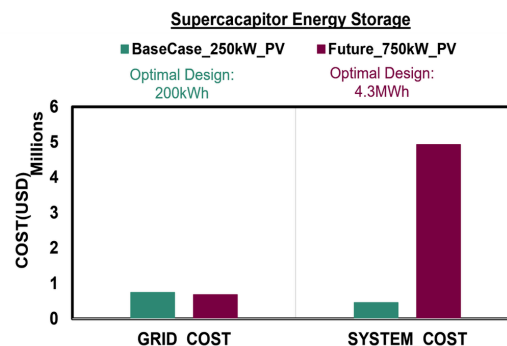
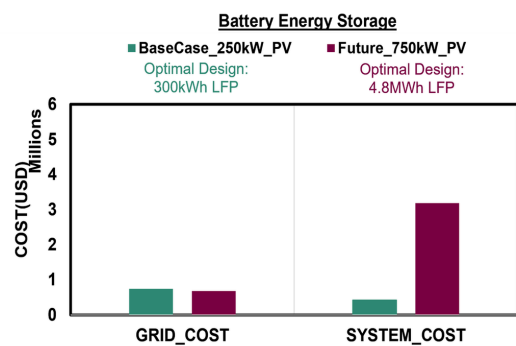
# Methodology:

## What is the optimal design?



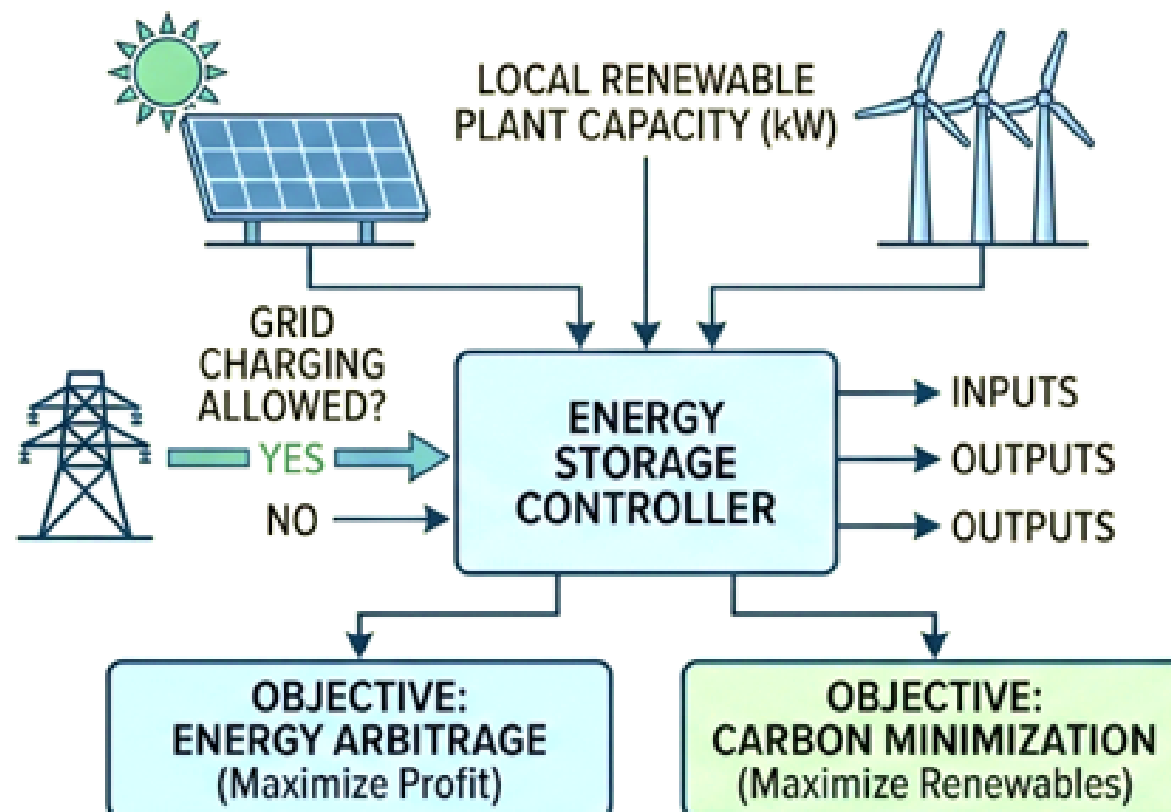
Multi-objective optimization Framework

# Results: Optimal Energy Storage Design



# Insights:

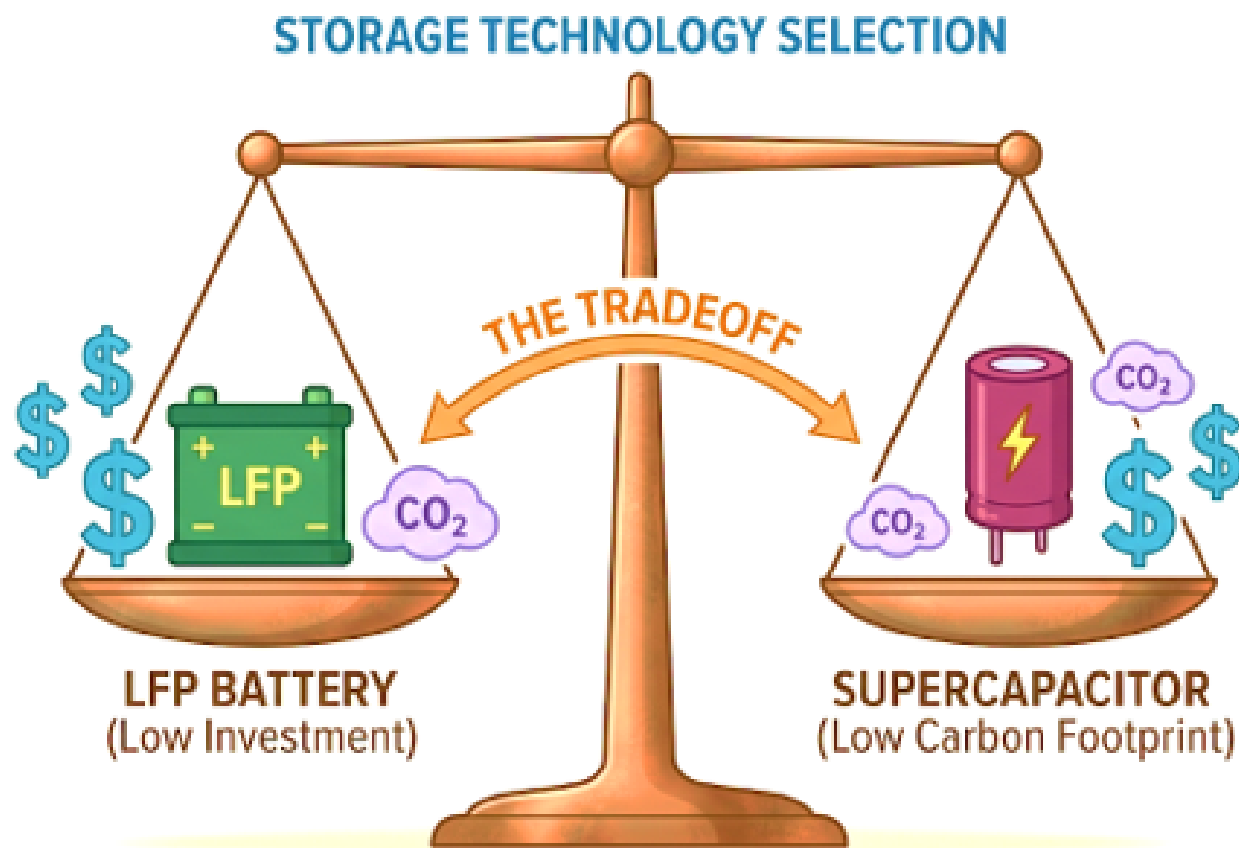
Gains of Energy storage depends on adopted ESS operational scheme



Focusing only on maximum local self consumption provide limited gains

# Insights:

Trade-off between Investment and CO2

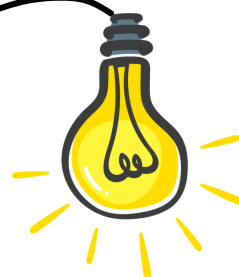


Batteries are cheaper

Supercapacitors are environmental friendly



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