Energy storage in pv systems Burkina Faso

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This study presents a hypothetical conceptualization of techno-economic feasibility of pumped hydro storage (PHS) and electric batteries with solar photovoltaics (PV) in the context of Burkina Faso. The results are explored for an off grid standalone PV plus storage system for a rural setting and a grid connected PV system for an urban setup.

This study presents a techno-economic feasibility analysis of solar PV system integration with conceptualized Pumped hydro storage (PHS) and electric batteries for Burkina Faso.

This study investigated three scenarios based on the existing microgrid"s characteristics: conventional standalone diesel generators, PV/diesel without battery storage and PV/diesel with a battery storage system which are the main technologies used for off-grid rural electrification in Burkina Faso.

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The present study aims to assess, through the life cycle assessment tool, the environmental impacts of a PV system with energy storage installed in Burkina Faso. This study also aims to evaluate the influence of the

type of battery and the type of end-of-life management on the overall impact of the PV system.

o PV + storage (PHS) better suited for rural electrification than grid connected systems o Batteries remain an expensive option for utility scale systems as compared to PHS o Driving down capital cost of PVs could have a significant impact on NPC and could

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