

# **SAR ENERGY TEAM PROJECT PROPOSAL**

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# Participants, Background, Description

## STAKEHOLDER:

Spencer Middleton (UCLA Facilities Management Energy Analyst) and UCLA Facilities Management

## BACKGROUND:

Past Sars Teams efforts have heavily supported the Green Energy Initiative here at UCLA. For example, they have installed solar panels on top of many buildings for such goals. UCLA Facilities has not researched energy savings based on occupancy.

## DESCRIPTION:


We aim to further the efforts in energy savings by researching to reduce and optimize energy use in UCLA facilities on the basis of the occupants' schedules.



# Research Plan and Deliverables



## RESEARCH PLAN:

- Comparative study between four facilities
    - Analyze current schedules
    - Operationalize energy/time based on collected occupancy data
    - North vs. South campus regions, building types
    - Differences in building energy management systems; is there local control?
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## DELIVERABLES:

- Final report
  - Methods and significant findings
  - Calculation spreadsheet
  - Recommendations for energy efficiency based on occupancy data