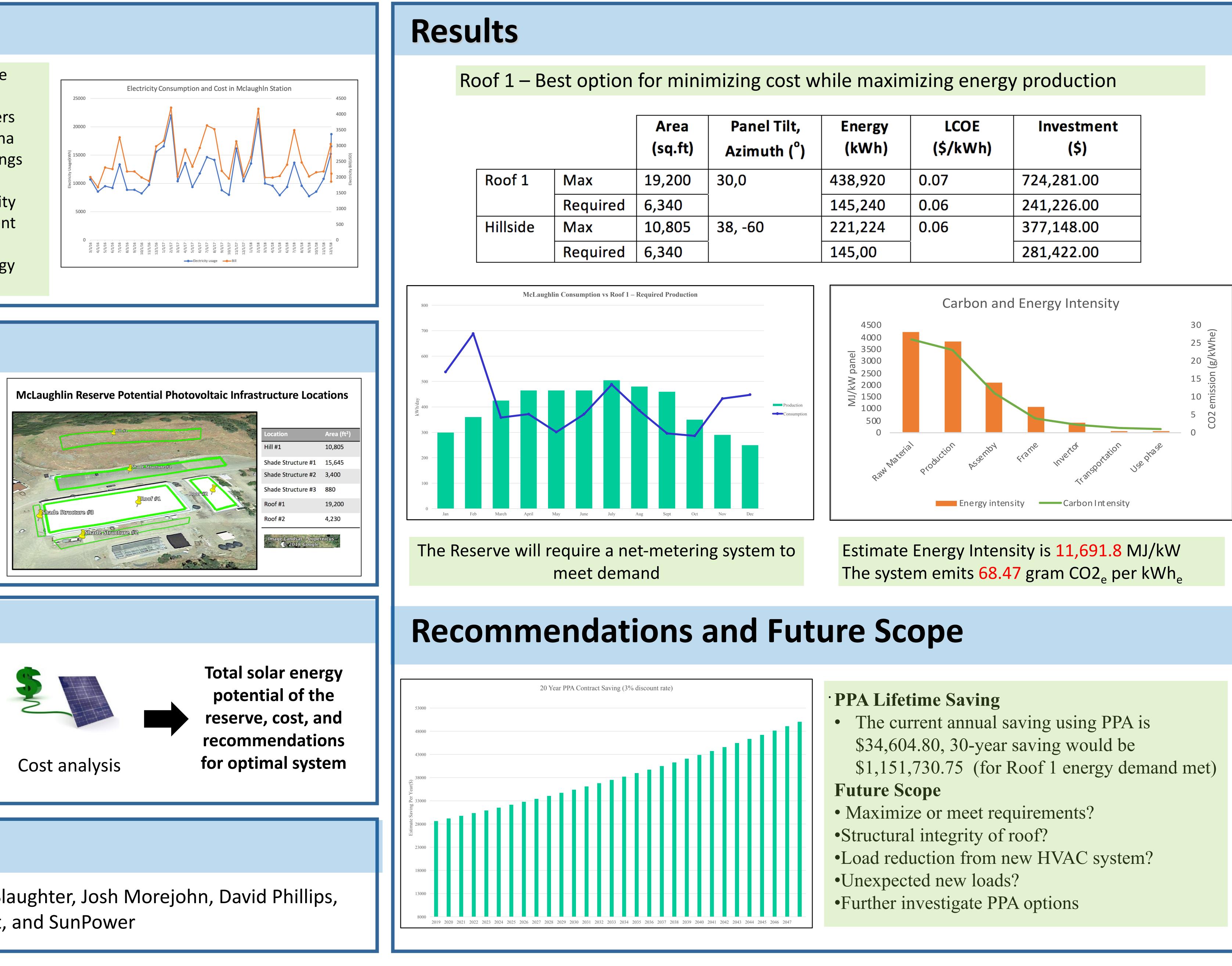
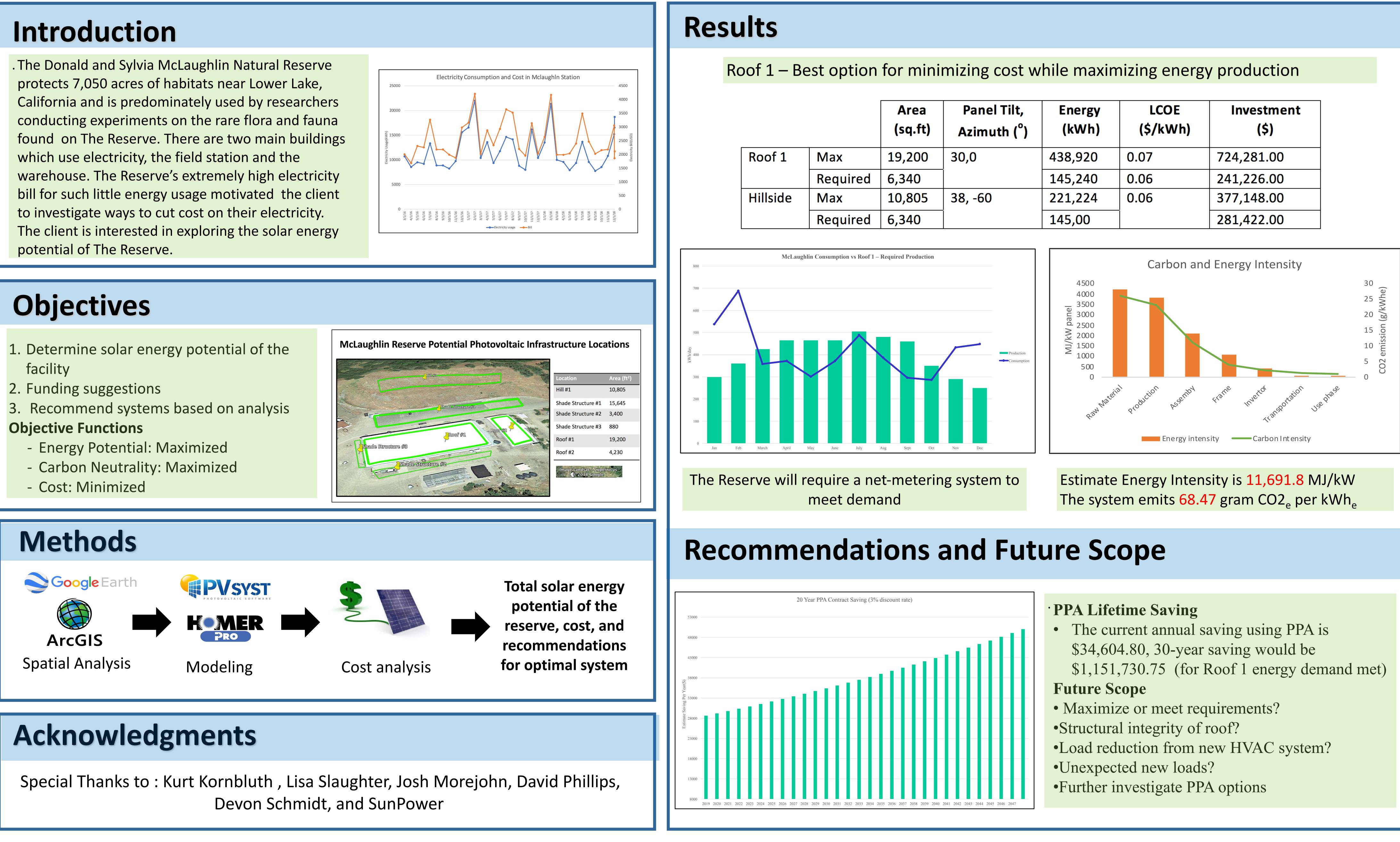


Determining the Solar Energy Potential for McLaughlin Natural Reserve **ABT 212 Spring 2019:** Samanvith Pamireddy, Lexi Valenti, Tianyu Ying

protects 7,050 acres of habitats near Lower Lake, California and is predominately used by researchers conducting experiments on the rare flora and fauna which use electricity, the field station and the warehouse. The Reserve's extremely high electricity bill for such little energy usage motivated the client to investigate ways to cut cost on their electricity. The client is interested in exploring the solar energy potential of The Reserve.

- facility







Contact: spamireddy@ucdavis.edu, avalenti@ucdavis.edu, tyying@ucdavis.edu





		Area (sq.ft)	Panel Tilt, Azimuth (°)	Energy (kWh)	LCOE (\$/kWh)	Investment (\$)
Roof 1	Max	19,200	30,0	438,920	0.07	724,281.00
	Required	6,340		145,240	0.06	241,226.00
Hillside	Max	10,805	38, -60	221,224	0.06	377,148.00
	Required	6,340		145,00		281,422.00



FACILITIES MANAGEMENT

Energy Conservation Office

izing energy production	izi	ing	energy	prod	luction
-------------------------	-----	-----	--------	------	---------