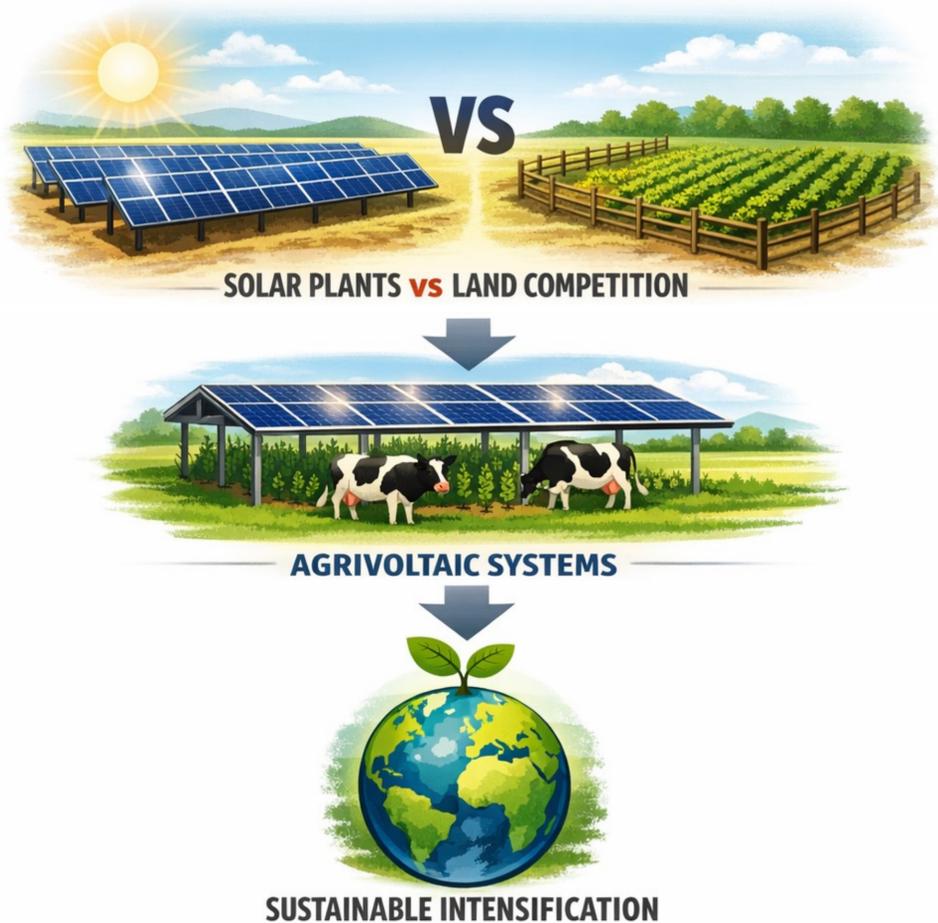


# Agrivoltaic systems as a tool to improve dairy farming sustainability — A case study

Matheus Deniz<sup>1\*</sup>, Karolini T. De-Sousa<sup>2</sup>, Maria José Hötzel<sup>3</sup>, Lenira El Faro<sup>2</sup>, Ricardo Ruther<sup>3</sup>

<sup>1</sup>Dairy Cattle Study Group, School of Veterinary Medicine and Animal Science, São Paulo State University, Botucatu, São Paulo, Brazil; <sup>2</sup>Institute of Animal Science, Sertãozinho, São Paulo, Brazil; <sup>3</sup>Federal University of Santa Catarina, Florianópolis, Santa Catarina, Brazil \*Presenting author.

## BACKGROUND

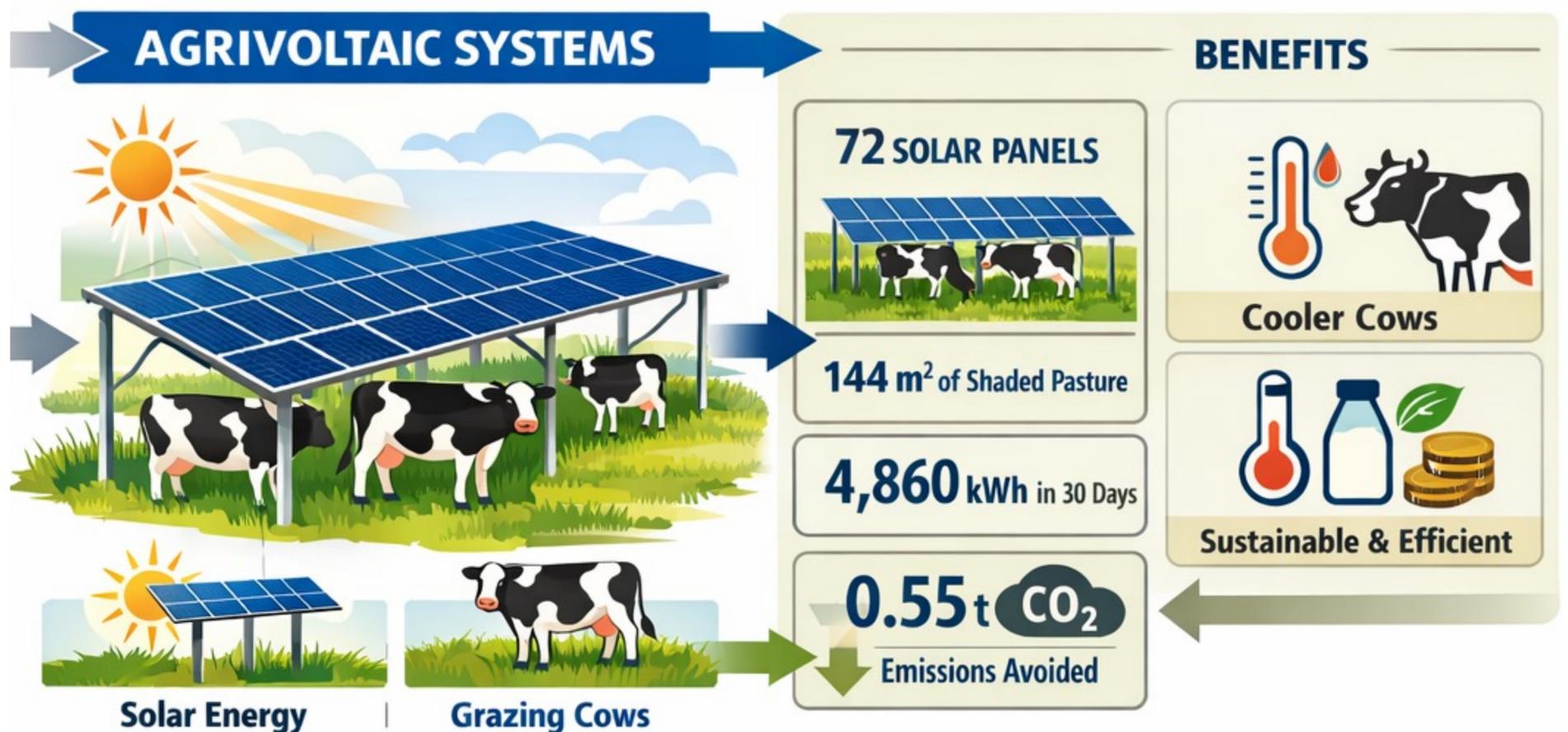


## METHODS

A total of 72 photovoltaic panels were installed, covering 144 m<sup>2</sup> and distributed across six paddocks (24 m<sup>2</sup>/paddock) to provide shade for grazing dairy cows.



## RESULTS



## CONCLUSION

Our findings support agrivoltaic systems as a promising strategy to improve the sustainability, resilience, and economic viability of dairy production systems, particularly in tropical regions increasingly affected by climate change.

## ACKNOWLEDGEMENTS