



Schamroth Rossade, D. N., Nassehi, A., & Williamson, S. (2023).  
*Energy Transition on St Helena Island: A system dynamics approach.*  
2023 International System Dynamics Conference.

Peer reviewed version

[Link to publication record in Explore Bristol Research](#)  
PDF-document

## University of Bristol - Explore Bristol Research

### General rights

This document is made available in accordance with publisher policies. Please cite only the published version using the reference above. Full terms of use are available:  
<http://www.bristol.ac.uk/red/research-policy/pure/user-guides/ebr-terms/>



*WIP Presentation*



# Energy Transition on St Helena Island

## Identifying opportunities for positive social and technological change

**Daniela Rossade, University of Bristol**

Aydin Nassehi, University of Bristol

Sam Williamson, University of Bristol

0:00-0:30



@systemdynamics\_



#isd2023

THE 41<sup>ST</sup> INTERNATIONAL SYSTEM DYNAMICS CONFERENCE  
Chicago, USA and Virtually

# Problem Statement

Perfectly bounded system for explorative study

How can energy change present opportunities for positive impacts across the whole island?



# Approach or Dynamic Hypothesis

---



How does energy interact with the main behavioural dynamics on the island?

## Approach

- Interviews, coding transcripts and thematically building a model
- Academic approach to simplification by reducing order and valuing effects with more immediacy

2:00-3:30

# Progress, Insights, and Questions



- Consumer energy costs are key (not government/private)
- There is more opportunity with a public system (different to insights from comparative data driven approach)
- Identifies 2 dynamics whose polarities were expressed differently:
  - Will renewable energy be cheaper to produce?
  - Will changes in energy costs be passed on to consumers?

Thoughts, feedback, and questions welcome

3:30-5:00