# Experimenting with Energyscapes: Growing up with Solar and Wind in Auroville and on Eigg

Prof. Dr. Sarah Strauss, Department of Anthropology Prof. Dr. Carrick Eggleston, Department of Geology and Geophysics University of Wyoming, Laramie, WY, USA

Workshop III: "Accelerating Technological Sustainability Transitions by Overcoming Adoption and Diffusion Barriers in Energy Transitions"

3<sup>rd</sup> Spring Campus of the University Alliance for Sustainability 9-13 April 2018, Freie Universität Berlin

#### a: Eroded landscape of Auroville ca. 1968.

b: The 30m tall Matrimandir as viewed from atop the 3-storey Auroville Foundation building, itself now supporting one of the first grid-tied photovoltaic arrays in Tamil Nadu, and emphasizing the reforestation of the barren landscape upon which Auroville was founded in 1968.



a: Photo of original, Sarah Strauss)

b: Photo, Carrick Eggleston

The 36.3 kilowatt, 484 panel photovoltaic array providing electrical power to the Matrimandir for lighting, air conditioning, washing machines, and water circulation. (photo Carrick Eggleston)



Various photovoltaic installations in Auroville, each affected by forest shading (photos: Sarah Strauss and Carrick Eggleston)



### A battery system backing up City Hall in Auroville (photo C. Eggleston)





## 2017 Renewable Energy on Eigg: Water, Wind, and Solar PV

(photo credits: Eggleston)



#### Follow our Big Green Footsteps

reducing all waste and growing as much as we can are all parts of our approach."

Energy Saving

We are ambitious to ansure what we do here on Egg helps to secure our future, but also that of our wider world. Without action our future is uncertain.

We welcome you to cur island. 85 poople live here (2008). Survivag poology, rich wildling a Varant and sometimes volent history and a gynamic community go together to make Eogl a special place. In 1997 the community bought the whole stand with the help of hendie and supconters workswide. We now here the character to steer a course for car own hares.

Energy Production

Transport

ernative Fuels

We hope what we have done will inspire you to do something for your wider world. Why not follow in our Big Green Footsteps?

igg

No Black

8889=-

islandsgoinggreen.org

Education

www.isleofeigg.org

Food

Waste Manac

Green Eigg, 2017 (photo credits: Strauss, Eggleston)

# **Thank You!**

We gratefully acknowledge the time and interest of the people of Auroville and Eigg in helping us to understand their energy transitions, and appreciate the financial support we have received to carry out this project, which include two Fulbright-Nehru Awards for research in India during 2012-13; an interdisciplinary fellowship from the Rachel Carson Center for Environment and Society in 2016-17; and a grant by the Center for Global Studies at the University of Wyoming for work on Eigg in 2017, as well as support from CGS

for attending this Workshop.

Questions? trauss@uwyo.edu Flow diagram showing parallel individual (short term) and municipal (long term) responses to power intermittency; individual solutions supported a local renewable power industry, but the municipal approach – while providing renewable power – resulted in lost support for the local renewable power industry.

