

Materials for Energy MSE 455/556

Project 02 Statement National Sustainability Plan

Objective:

The objective of this project is to prepare a plan for the United States to function at its current energy consumption based exclusively on renewable energy. Five example plans for the United Kingdom are provided in Chapter 27 of Sustainable Energy – without the hot air by David MacKay. A link to the free online full text version of this resource is provided on the course website.

Report:

The product of this project will take the form of a written report. The report must follow the template provided on the course website.

Four Elements:

The following elements must be answered in the report.

- Provide your distribution of renewable energy sources.
- Provide a justification for this distribution, including basic physical feasibility, such as land and elemental constraints.
- Discuss what are the most anticipated objections to your plan.
- Provide a potential solution to mitigate those concerns.

References:

The report must include no fewer than five references, which are attributed to the original source. These references must be from the following sources

- archival, peer-reviewed journals
- government reports
- technical monographs

Additional references from newspapers and websites are acceptable, but do not count toward the five required references.