Plan Overview

A Data Management Plan created using DMPonline

Title: Historical Energy and Communication Data

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Project abstract:

To better understand the processes of digitalisation, dematerialisation and decarbonisation, this project examines the relationship between energy and information for the global economy since 1850. It explores the long run trends in energy intensity and communication intensity, as a proxy for total information intensity. This project aims to offer an understanding of the long run substitutability and complementary between energy and information.

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Historical Energy and Communication Data

0. Proposal name

0. Enter the proposal name

The Digitalisation, Dematerialisation and Decarbonisation of the Global Economy in Historical Perspective: The Relationship between Energy and Information since 1850

1. Description of the data

1.1 Type of study

The study uses secondary international historical data between 1850 and 2019.

1.2 Types of data

The data is quantitative statistics on primary energy consumption and on communication use from official statistical sources.

1.3 Format and scale of the data

The data is annual statistics for a set of countries around 170 years.

2. Data collection / generation

2.1 Methodologies for data collection / generation

The data is collected from secondary statistical sources.

2.2 Data quality and standards

The data is as reliable as possible, although the further back in time the more uncertain the official statistics are completely accurate.

3. Data management, documentation and curation

3.1 Managing, storing and curating data

The data is saved in Excel format.

3.2 Metadata standards and data documentation

This data could be used in other studies investigating the relationship between energy and information, or focusing on alternative indicators of economic development (perhaps as an instrumental variable - although the relationship is not linear).

3.3 Data preservation strategy and standards

The data will be preserved.

4. Data security and confidentiality of potentially disclosive information

4.1 Formal information/data security standards

Given that the data is at a national-level, there are no personal data issues, and security is not an issue.

4.2 Main risks to data security

No risks.

5. Data sharing and access

5.1 Suitability for sharing

The data is suitable for sharing.

5.2 Discovery by potential users of the research/innovation data

The study will be published as an article, and the link to the data will be made available on the journal website.

5.3 Governance of access

The data will be deposited on and freely available for any user accessing my LSE website.

5.4 The study team’s exclusive use of the data

Upon publication of the article the data will be made available to all, and there is no exclusivity associated with the data.

5.5 Restrictions or delays to sharing, with planned actions to limit such restrictions

No restrictions.

5.6 Regulation of responsibilities of users

No specific responsibilities.

6. Responsibilities

6. Responsibilities

The PI is responsible for data management and quality assurance.

7. Relevant policies

7. Relevant institutional, departmental or study policies on data sharing and data security

Policy	URL or Reference
Data Management Policy & Procedures	https://www.lse.ac.uk/library/research-support/research-data-management-and-open-data
Data Security Policy	NA
Data Sharing Policy	
Institutional Information Policy	https://www.lse.ac.uk/library/research-support/research-data-management-and-open-data
Other	
Other	

8. Author and contact details

8. Author of this Data Management Plan (Name) and, if different to that of the Principal Investigator, their telephone & email contact details

Roger Fouquet