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GENERAL INFORMATION

1. Title of the dataset: Transnational energy networks and the BRI: oil and gas pipelines

2. Author Information:

First Author Contact Information

Name: Chun-Yin Man

Email: cycourban@gmail.com

ORCID: <https://orcid.org/0000-0002-2152-9558>

Corresponding Author Contact Information:

Name: David Alexander Palmer

Email: palmer19@hku.hk

Affiliation:

ASIAR - Asian Religious Connections,

Hong Kong Institute for the Humanities and Social Sciences,

The University of Hong Kong

Homepage: <https://asiar.hku.hk/>

3. License and terms of reuse

This dataset is featured in a collection of geospatial data "[Geo-mapping databases for the Belt and Road Initiative](#)". To distribute, remix, tweak, and build upon this work, please give appropriate credit and provide a link to this work. Available citation styles can be found here: <https://doi.org/10.6084/m9.figshare.c.6076193>

DATA & FILE OVERVIEW

Directory of Files:

A. Transnational energy networks_BRI.zip

Description: Locations and attributes, including the names, status, and throughput of oil and gas pipelines that have been proposed under the Belt and Road Initiative (BRI)

The zip file contains five shapefile ([what is a shapefile?](#)) extensions that record the geometry and attributes of geographically referenced features. To open the shapefile properly, the following three files are needed to be stored under the same directory:

BRI_pipelines.shp: Geometry for all features

BRI_pipelines.shx: Index of the geometry

BRI_pipelines.dbf: Features' attributes in tabular format

Optional files:

BRI_pipelines.prj: Information on projection format including the coordinate system and projection information.

BRI_pipelines.cpg: Description of the encoding (e.g., utf-8) applied to create the shapefile

B. Transnational energy networks_Afro-Eurasia.zip:

Description: Five shapefile extensions that record the geometry and names of existing and proposed oil and gas pipelines (Excluding pipelines that were proposed under the BRI) in Afro-Eurasia.

C. Refinery_by_Capacity_Afro-Eurasia.zip:

Description: Five shapefile extensions that record the geometry and attributes, including the coordinates and capacity of refineries in Afro-Eurasia.

DATA DESCRIPTION

A. Transnational energy networks_BRI.zip

1. Number of columns: 5

2. Number of rows: 5

3. Dataset reference date: 31/3/2020

4. Spatial Reference System: WGS 84 (EPSG:4326) (CRS:84)

5. Spatial Data Type: line (vector)

6. Positional Accuracy: The geospatial data was collected from public sources; they may be prone to locational errors due to the ambiguity of the information disclosed by authorities and news agencies.

7. Attributes

A. Field: Name

Format: Text

Description: The name of the pipeline

B. Field: Location

Format: Text

Description: The origin and destination countries of the pipeline

C. Field: Status

Format: Text

Description: Status of the pipeline

Existing = in operation

Under construction = to be completed

D. Field: Throughput

Format: Text

Description: the yearly volume of crude oil fed to the crude unit at refineries

E. Field: Incentive

Format: Text

Description: Measures or concessions to stimulate investment

F. Field: Source

Format: Text

Description: The web link to the source reports, articles, or coverage

B. Transnational energy networks_Afro-Eurasia.zip

1. Number of columns: 2

2. Number of rows: 365

3. Dataset reference year and month: 11/2017

4. Spatial Reference System: WGS 84 (EPSG:4326) (CRS:84)

5. Spatial Data Type: line (vector)

6. Positional Accuracy: The geospatial data was collected from [FracTracker](#); they may be prone to locational errors due to the ambiguity of the information disclosed by authorities and news agencies.

7. Attributes

A. Field: Name

Format: Text

Description: The name of the pipeline

C. Field: Status

Format: Text

Description: Status of the pipeline

Existing = in operation

Proposed = proposed pipelines

C. Refinery_by_Capacity_Afro-Eurasia.zip

1. Number of columns: 11

2. Number of rows: 308

3. Dataset reference year and month: 11/2017

4. Spatial Reference System: WGS 84 (EPSG:4326) (CRS:84)

5. Spatial Data Type: point (vector)

6. Positional Accuracy: The geospatial data was collected from [FracTracker](#); they may be prone to locational errors due to the ambiguity of the information disclosed by authorities and news agencies.

7. Attributes

Detailed descriptions of attributes are available here:

<https://www.fracktracker.org/map/international/>

METHODOLOGICAL INFORMATION

Software-specific information:

Geospatial features (.shp) in this dataset can be read and edited by using GIS software, such as QGIS and ArcGIS. Geospatial attributes in tabular format (.dbf and .xlsx) can be separately read and edited by using spreadsheet software, such as Microsoft Excel and OpenOffice spreadsheet.