INTERACTIVE WORLD LNG DASHBOARD

Version 4.1

USER GUIDE



New Gui

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WELCOME

Welcome to the **PE Maps Interactive LNG Dashboard** User Guide. Choose a topic from the right to find answers, get step-bystep instructions, and make the most from the dashboard.

Our new data dashboard is an information management tool that visually tracks, analyses and displays key performance indicators (KPI), metrics and key data points for the LNG sector. Included in the dashboard is our world renowed Interactive World LNG map which is updated on the fly so that the information is always up-to-date. The map features LNG regasification terminals, LNG liquefaction plants, gasfields and gas pipelines globally.

Dynamic graphs and tables link to the map and other live databases to provide a full status view of the LNG industry.

The **PE Maps Interactive LNG Dashboard** has been created utilising technology from the Global Energy Infrastructure platform incorporating ESRI ArcMap software which allows users to zoom from global overview to country-level detail, access project data, including status and ownership.

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DASHBOARD INTERFACE

The dashboard is microsite of maps and data for the global LNG industry in a series of tabs only available on the internet. The dashboard opens by default on the Map of LNG Infrastructure page. Other tabs include Shipping, Useful information and About ExxonMobil. To change page click on the tab at top of the screen. Each page contains multiple maps or graphics, to view simply scroll up and down the page. Below is the general interface of the dashboard.





MAP CONTROLS - USING THE MAP

The elements of the map have detailed attribute data associated with them. Three types of mapping element are available in this application. **Point** elements (LNG projects), **Line** elements (gas pipelines) and **Polygon** elements (Condensate, Gas and Oil/Gas fields). Each of these elements can be interacted with and selected using the mouse pointer. When selected a Pop-up box will open with the attribute data.





MAP CONTROLS - WIDGETS



Zoom control

To zoom in and out of the map you can click the plus (+) button to zoom in or click the minus (-) button to zoom out of the map

Alternatively if you have an mouse with a wheel you can roll the mouse wheel forward to zoom in or roll the mouse wheel backwards to zoom out



Selection tools

Use any of the tools to make a selction of LNG data. Draw around desired are and the projects will be selected and highlighted.

The map will zoom automatically to selected area





MAP CONTROLS - WIDGETS

Legend

The Legend widget displays labels and symbols for layers in the map. The Legend is set to automatically update when the visibility of a layer or sub-layer changes. When no operational layers are rendered in the map, the Legend widget is blank.





Search Find an address or place



Basemap gallery

The Basemap Gallery widget presents a gallery of basemaps and allows you to select one from the gallery as your application's basemap.





MAP DATA

The map incorporates information from our live databases. This information is accessable by clicking on a LNG star or gas pipeline. The selected feature will be highlighted and a pop-up box will open with the associated data for that feature. Data from this map can not be downloaded.

LNG data



LNG data included: Project name, Status (operating, under construction, planned, proposed or non operational), Start-up year, Type (export or import), Operator, Project capacity (m t/y), Location (onshore or offshore)

Gasfields and Pipelines



Gasfield and pipelines are labelled as users zoom closer



STATISTICS

PE Maps has incorporated valuable industry LNG and natural gas statistics. The graphs and tables in the dashboard are driven by the live information in our databases. As information is updated in the mapping features this dynamically updates the graphs and tables. All the LNG statistics are dynamically linked our own data.





STATISTICS

Dynamically linked graphics mean that if you select a group of information it will change the data on the map and related graphs. Single or multilple selections can be made.





SHIPPING

PE Maps has worked with EA Gibson Shipbrokers to provide a full LNG vessel listing. This includes those vessels that are operational, on conversion, on order or sold for scrap or demolition. In addition to the full vessel listing, we have incorporated a series of graphics that are dynamically linked to those listings. So, as vessel status changes as will the graphics. Shipping plays a vital role in the movement of liquefied natural gas and we have provided some other graphics on the types of LNG vessel and how much LNG has be shipped in 2022.

Dynamically linked graphics mean that if select a group of information it will chang the data on the related graphs.	Full fleet listO	Vessela	Operator Mathematical Science Mat	 Capacity ↓ ↓ ↓ ↓<	Vessel type Vessel type Vessel type	Year Image: Constraint of the second of the se	Status Image: market in the image: market	Constructor © ··· Samsung ··· Misubishi Nagasaki ··· Jaewoo ··· Daewoo ··· Daewoo ··· Samsung ··· Daewoo ··· Samsung ···	Comments Com
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SHIPPING - DISTANCES

Shipping distances map includes a sample of shipping routes. This section we have taken the five largest LNG exporters and five largest LNG importers and created some sample trade flows based upon the 2022 International gas trade data supplied by GIIGNL.

Data shown is an illustrative indication of trade routes. Days based on vessel max speed of 16.5 knots. Destinations based upon 2022 International gas trade by LNG tanker. Distance are one way distances and time calculated using Dataloy Distance Table. Shipping routes go via the most direct passage at a constant speed. Routes may include the Suez and Panama canals. Additional time may occur whilst transiting the canals.





OTHER TABS

Two further tabs with further information have been provided

Definitions, disclaimer, sources, acknowledgements, contact details and links to the Gulf Energy Information websites and social media pages









TECHNICAL

Supported browsers

The **PE Maps** dashboard supports most website browsers on multiple operating systems. The following are supported by the application:

- Chrome
- Firefox
- Safari 3 and later
- Edge
- Internet Explorer 11
- iOS Safari
- Chrome for Android

If you are experiencing technical issues with any part of the application or have general inquiries please contact a member of the

PE Maps / GEI team

(see contacts page 13)



ArcGIS Enterprise - Portal for ArcGIS has been used in the developement of our applications.



CONTACTS

If you are experiencing technical difficulties or have questions about the mapping application, please contact us for assistance.

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