



# MAXIMO ENERGY USER FORUM

POWERED BY  BPD ZENITH

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Niksa Kacic **Golar Management**

Maximo and Mobility with Anywhere

Golar LNG



# MAXIMO AND MOBILITY **WITH ANYWHERE**

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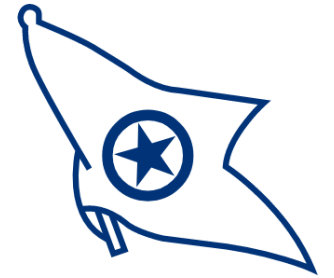


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# About Golar

Golar LNG



As the most experienced operator in the business, Golar's main competitive strength is speed of execution at low cost. As one of the industry's most innovative developers of floating terminals, Golar has produced more LNG from a floating facility than any other operator...

**3-4x** EXPECTED EBITDA GROWTH OVER NEXT 3-YEARS

**5+** MILLION TONNES OF LNG PRODUCED BY FLNG HILLI

**7** LNG CARRIER CONVERSIONS

**50** YEARS EXPERIENCE DEVELOPING MARINE LNG INFRASTRUCTURE

Golar implemented Maximo O&G and purchased Anywhere licences and mobile devices but due to business priorities of embedding the new solution and supporting end users – Anywhere was not adopted by the business. Resources were also limited to a small internal team.

**IBM Maximo**

## Maximo implementation overview

Golar use Maximo for:

- **Procurement**
- **Inventory**
- **Maintenance Management**
- **Control of Work system** - including RA, PTW, MOC, Safety Inhibits, Isolation Management...)

***Golar have a large Maximo footprint as an organisation, so their mobile solution needed to address all these requirements...***

# Mobile requirements

Golar reviewed their mobile requirements with BPD and selected Anywhere (over Maximo Mobile and other third-party solutions for Ex inspections) as the way forward due to its functionality and the maturity of the offering...





# Maximo Anywhere

Golar transferred the work management processes over to Anywhere – **Work Technician app**.

We had to come up with an offline solution for **Ex Inspections** as some users are without Wi-Fi offshore. They did not have the option to use Work Centres with an attached link to an inspection form...

INSPECTION CHECK SHEET FOR Ex d INSTALLATIONS							
Facility Name:		Equipment TAG No:		Ex Markings on Equipment:			
FLNG Hilli Episeyo							
Description:				Certificate No.:			
Make:		Model:	Serial No.:	Equipment Location:			
HAZARDOUS AREA CLASSIFICATION:				Ex d			
				Grade of Inspection			
Check that:		Detailed		Close		Visual	
<b>A EQUIPMENT</b>		Y	N	Y	N	Y	N
1 Equipment is appropriate to area classification		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Equipment group is correct		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
3 Equipment temperature class is correct		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
4 Equipment IP rating is appropriate to area		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
5 Equipment circuit identification is correct (i.e. Description & Tag No.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Equipment is clearly marked (i.e. Ex identification and certificate number)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Isolation details clearly marked (e.g. Isolate at switchboard before opening)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 There is no obvious damage to the equipment		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9 There are no unauthorised modifications		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 Enclosure, glass parts and glass-to-metal sealing gaskets and / or compounds are satisfactory		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 Bolts are of the correct type, no signs of corrosion and tight (i.e. Correct torque settings)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12 Flange faces are clean and undamaged and gaskets, if any, are satisfactory		<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A	N/A	N/A
13 Flange gap dimensions are within maximal values permitted		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
14 Electrical connections are tight		<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A	N/A	N/A

# Implementation Approach

**Ex Inspections** are critical in order to assure the continuing integrity of the types of protection that enable Ex electrical equipment use in potentially explosive atmospheres. These are carried out under the **standard IEC / BS EN 60079-17**.

The intention of Ex inspections is to ensure that the Ex electrical equipment continues to comply with the original equipment manufacturers' certification requirements both externally and internally

Inspection Template

Filter > 1 - 2 of 2

Sequence	Description	Inspection Type	NA for detail?	NA for Close?	NA for Visual?	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

New Row

OK Cancel

Select Value

Filter > 1 - 6 of 6

Value	Description
<u>CORROSIVE</u>	<u>Corrosive</u>
<u>EXD</u>	<u>Ex d</u>
<u>EXE</u>	<u>Ex e</u>
<u>EXI</u>	<u>Ex i</u>
<u>EXN</u>	<u>Ex n</u>
<u>EXP</u>	<u>Ex p</u>

Cancel

# Ex Inspections – configuration

**BPD and Golar configured the following solution:**

It was an administration table to store questions and they can be grouped by type. They have 5 ex types. This can be accessed via Preventive Maintenance application.

A new field on PM to categorise by type: this would link the PM to the questions from the above point: E.g. Ex D questions and Ex D type PM.

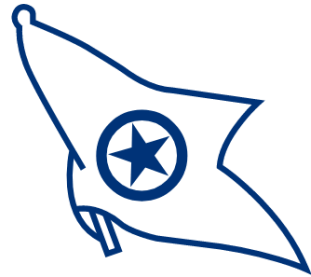
A child table to multiple assets and location: when a PM work order generates this will populate the child table per asset/location with said questions.

This would then be accessed via anywhere, the same way for example you would view all your tasks there was a sub section you can click into which displayed all your questions per asset which users could fill in.

***There were some other features such as when user answers question it auto populates name/date.***



Golar LNG



## Lessons Learned

The Solution is currently in UAT. Testing is going well, a few tweaks are needed. Go-live is planned for August/September 2022.

Once WMS is rolled out, inventory will follow.

# Futures...

Golar are considering the use of RFID tags or barcoding for their FLNG vessel in Cameroon.

As mature users of Maximo, looking further into the future MAS would support Golar's digitisation strategy.



# QUESTIONS

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# GET IN TOUCH



Hosted by **Helen Fisher**  
**Business Development Manager**  
**BPD Zenith**

If you'd like to know more about anything from today's session, we'd love to hear from you!

[www.bpdzenith.com](http://www.bpdzenith.com)

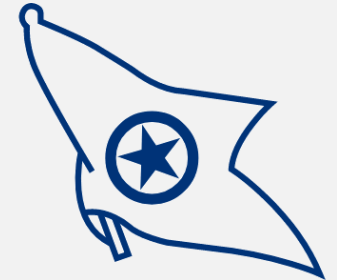
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Special thanks to...

Golar LNG



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