



API MARINE

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POWER GENERATION - GENERAL PRESENTATION

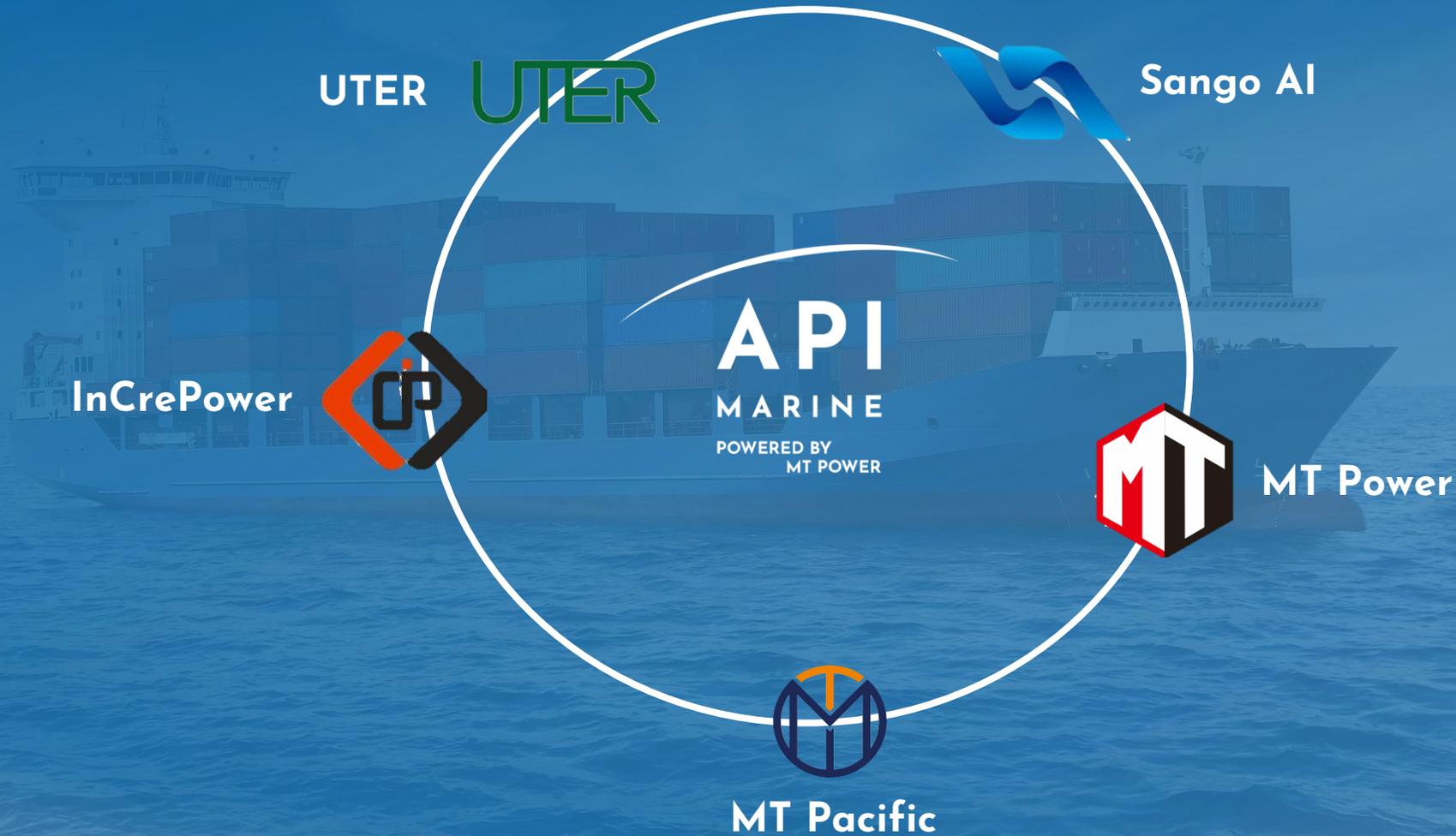
SENSORS & AUTOMATION SYSTEM · POWER GENERATION · DIGITAL SOLUTIONS

AGENDA

1. **Company Information**
2. **Power Generation Solutions**
3. **Reference Projects**

1. Company Information

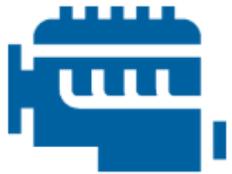
API Marine Group Companies



2) Power Generation Solutions

We Offer a Wide Range of Power Generation Solutions

Gensets



Diesel Electric Propulsion



Hybrid Propulsion



Electric Propulsion





Cummins Genset

Engine Model:

6B,6C,6L, QSB7,QSM11, K19, K38,
K50, QSK50, QSK60, QSK95

Power Range:

40 KW ~ 3000 KW



Volvo Genset

Engine Model:

D8, D13, D16

Power Range:

119 KW ~ 555 KW



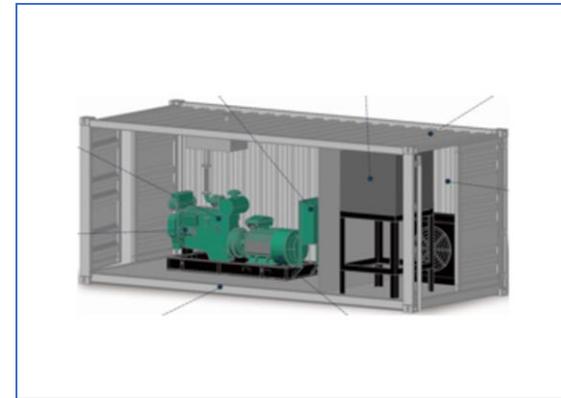
Zone 2 Genset

Engine Model:

K19, K38, K50, QSK50, QSK60

Power Range:

200 KW ~ 2000 KW



Wind Farm Security

Engine Model:

D5, D7, 6B, 6C, 6L

Power Range:

60 KW ~ 150 KW

AC690V Electrical System

- ABB Motor
- ABB Switchboard
- ABB Driver
- Power Management System
- CALB or CATL Battery



ABB AMI Motor



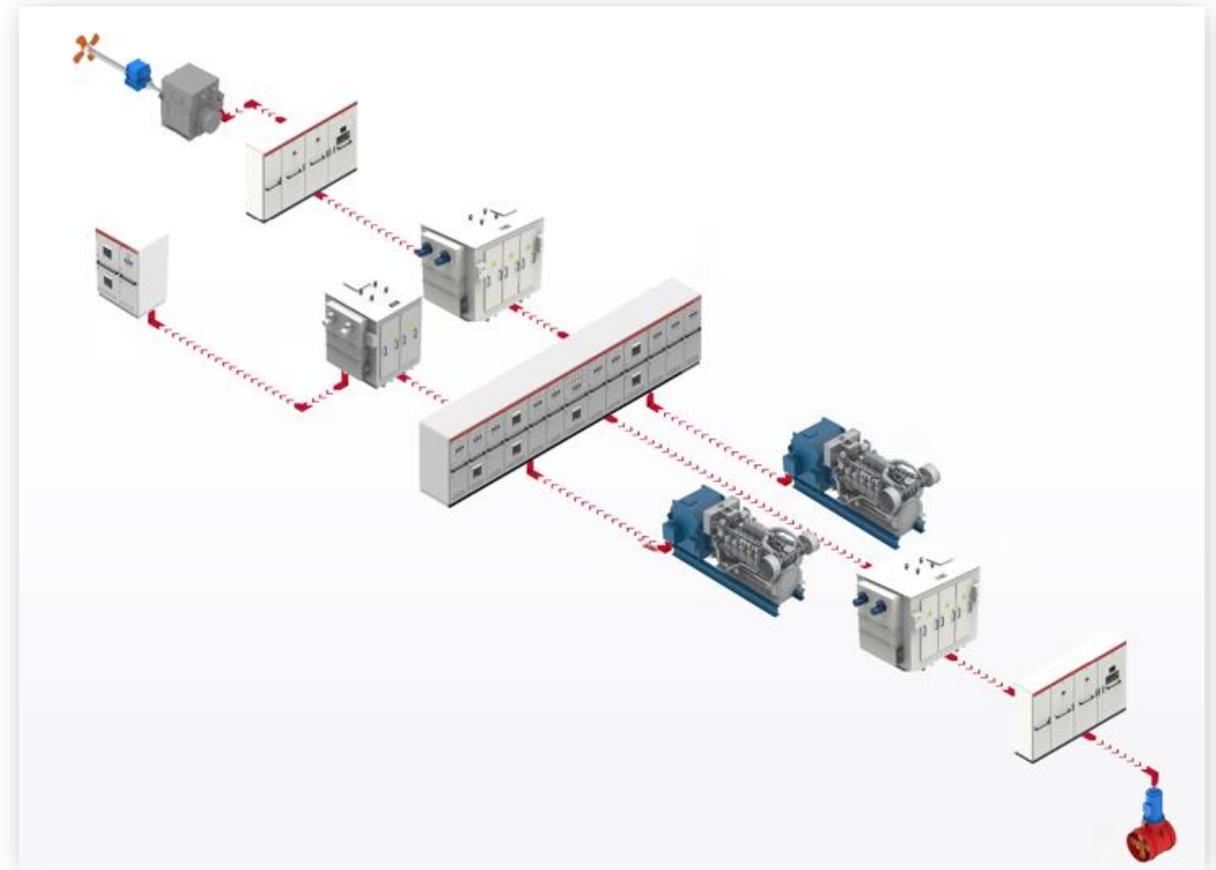
690V Main Switchboard with ABB Breaker



ABB ACS880 Driver



Energy Storage System



Valve Ctrl & Automation System

AMS/PMS/PCS



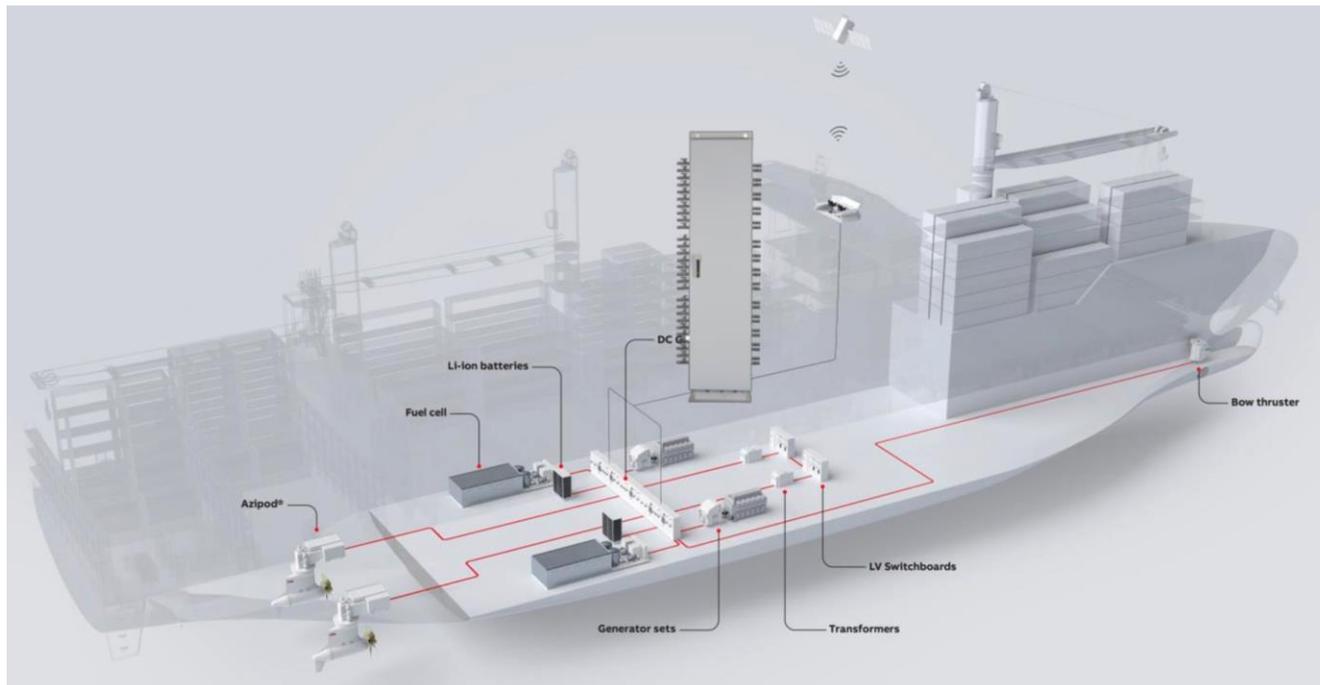
Electric / Diesel Electric & Hybrid System



Danfoss Driver / PM Motor



ABB Driver /Motor



SMART Vessel System



Power System



DPF



Cummins Engine & Genset

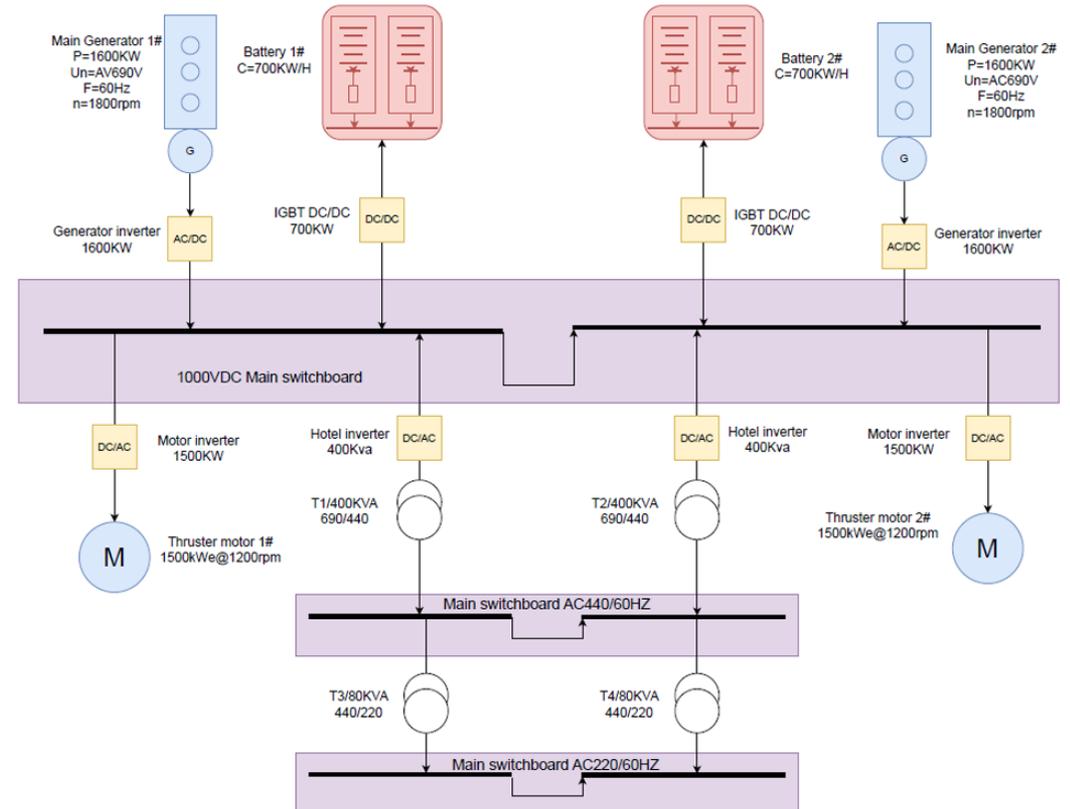


SCR

Smart INF, MHM, SHM
Digitalization
Digital Twin
Cyber Security

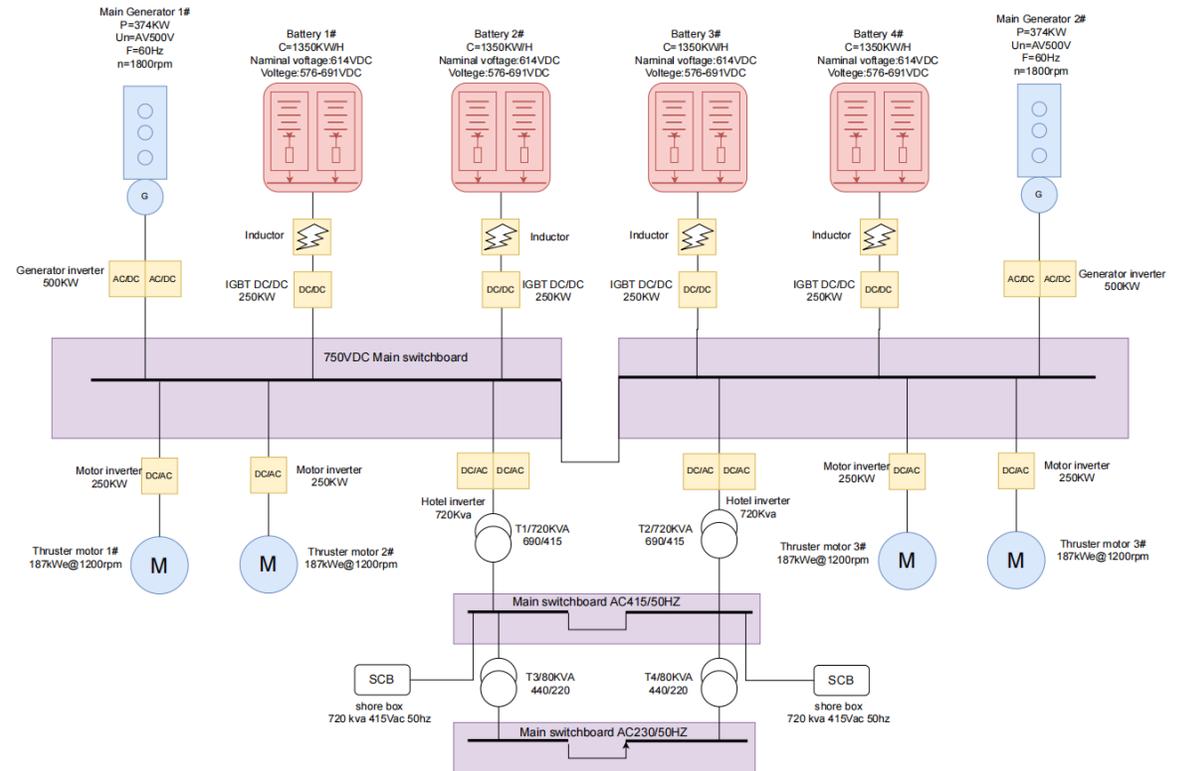
ADVANTAGES

- Fuels Savings & Lower Emissions
- Optimized Performance
- Reduced Noise & Vibration
- Lower Maintenance Costs
- Enhanced Redundancy & Reliability



ADVANTAGES

- Zero Emissions & Environmental Compliance
- Exceptional Energy Efficiency
- Quiet, Vibration-Free Operation
- Lower Maintenance & Operating Costs
- Precise Control & Maneuverability



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3. Reference Projects

Reference Project

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Project	FPSO (BW Offshore)
Shipyard	Keppel Shipyard
Delivery	1 ship/set
Classification Society	ABS

Scope of supply:

- **Main Gen:** 3x QSK50-DM 1200ekw
- **Emergency & Harbor Gen:** 1x KTA38-DM 750ekw



Project	FPSO IBP (Yinson)
Shipyard	COSCO Shipyard
Delivery	1 ship/set
Classification Society	DNV

Scope of supply:

- **Main Gen:** 3x QSK95-DM 2700ekw
- **Emergency & Harbor Gen:** 1x QSK60-DM 1800ekw



Reference Project

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Project	5000hp Hybrid Tugboat
Shipyard	Mawei Shipyard
Delivery	1 ship/set
Classification Society	CCS

Scope of supply:

- **Main Gen:** 3x QSK50-DM 1400ekw
- **Battery:** 2000kwh



Project	1000 Pax Hybrid Ferry
Shipyard	Plenty Shipyard
Delivery	2 ships/set
Classification Society	BV

Scope of supply:

- **Main Gen:** 4x 830ekw
- **Hybrid System:**
 - 4x 500ekw permanent magnet motor
 - 4x 830ekw permanent magnet generator
- **Battery:** 300kwh



Reference Project

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Project	65M DE 80T AHTS
Shipowner	Rawabi Vallianz
Shipyard	Hangton, PT USP, Shin Yang, SOE
Delivery	11 ships/set
Classification Society	ABS

Scope of supply:

- **Main Gen:** 44x QSK50-DM 1600ekw



Project	FPSO Agogo
Shipowner	Yinson Offshore
Shipyard	Huarun Dadong Shipyard
Delivery	1 ship/set
Classification Society	DNV

Scope of supply:

- **Main Gen:** 4x QSK95-DM 2700ekw
- **Emergency:** 1x QSK60-DM 1800ekw



Reference Project

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Project	1200T Wind Farm Installation
Shipowner	Hua Xia Leasing
Shipyard	Dajin Shipyard
Delivery	2 ships/set
Classification Society	CCS C2

Scope of supply:

- **Main Gen:** 6x QSK60-DM 1600ekw



Project	5000HP Hybrid Tugboat
Shipowner	Xiamen Port Authority
Shipyard	Mawei Shipyard
Delivery	1 ship/set
Classification Society	CCS

Scope of supply:

- **Main Gen:** 3x QSK50-DM 1400ekw
- **Battery:** 2000kwh



Reference Project

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Project	60T DE Shallow Draft AHTS
Shipowner	Rawabi Vallianz
Shipyard	JOC and Hangtong Shipyard
Delivery	10 ships/set
Classification Society	ABS

Scope of supply:

- **Main Gen:** 40x CCEC K50-DM 1350ekw
- **Emergency Gen:** 10x 6CT8.3-DM 99ekw



Project	120T AHTS
Shipowner	Rawabi Vallianz
Shipyard	Nanyang, Hangton, PT USP
Delivery	7 ships/set
Classification Society	ABS

Scope of supply:

- **Main Gen:** 7x QSB7-DM 90ekw



Reference Project

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Project 55ft Battery Yacht
Shipyard Mazarin Shipyard
Delivery 1+2 ship/set

Scope of supply:

- **Electrical System:** 2x 150ekw Motor + Driver
- **Battery:** 200kwh
- **Genset:** 70 ekw Variable genset
- **Solar:** 10kw



Project 1000 Pax Hybrid Ferry
Shipyard Plenty Shipyard
Delivery 2 ships/set
Classification Society BV

Scope of supply:

- **Main Gen:** 10x 830ekw WITH IMO Tier 3
- **Hybrid System: DC-Link**
 - 10x 500ekw Permanent Magnet Motor
 - 10x 830ekw Permanent Magnet Generator
- **Battery:** 300kwh



Reference Project

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Shipowner	Jana Marin (Saudi)
Shipyard	WMMP Shipyard
Delivery	7 vessels
Classification Society	ABS

350Ft Jack up Barge (Type B, C, D)

Scope of supply:

- **Main Gen:** 6x 1300ekw Genset
- **DE System:**
 - ABB Switchboard
 - AMS/PMS
 - VFD
 - Propulsion Motor
 - Azimuth Control System
- **SMART System:** INF, MHM Tier 2, SHM Tier 2
- **Digital**



Reference Project

A new round of offshore cycle began from 2024 to now:

- 10 X 64M 60T DE AHTS, Rawabi Vallianz
- 2 X 90M SAV , Rawabi Vallianz
- 2 X 50M Utility , Rawabi Vallianz
- 1 X 48M FCB , Rawabi Vallianz
- 7 X 120T AHTS , Rawabi Vallianz
- 11 X 65M 80T DE AHTS , Rawabi Vallianz
- 6 X Liftboat (Type 3), HEA
- 7 X Liftboat (Type B,C,D), Jana marine
- 1 X Liftboat, Dajin
- 4 X 69.8M Hybrid OCV , HEA
- 1 X 80M MAV, Milaha
- 2 X 65M ETV, Milaha
- 1 X 86M DE PSV, China Owner
- 2 X 42M FCB, Namcheong
- 2 X 64.8M DE 60T AHTS, Namcheong
- 2 X 55M DE AHT, Lanpan
- 2 X Liftboat (Type D+), Jana Marine
- 1 X 97.8M SAT DSV, Jana Marine

Total : 63 Vessels





POWER GENERATION - GENERAL PRESENTATION

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