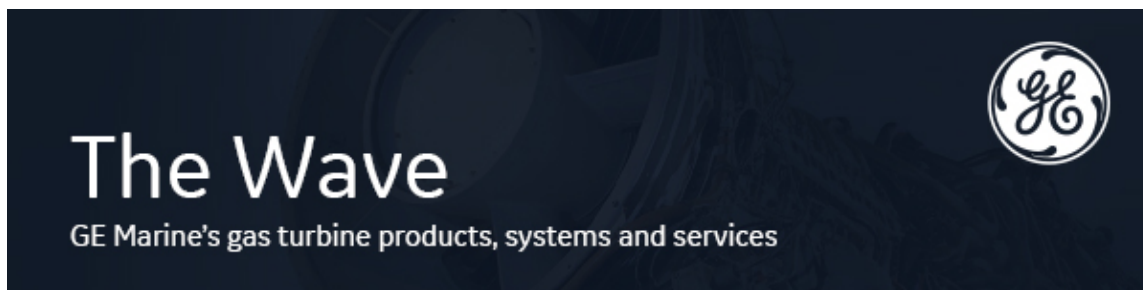


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Summer 2021

Volume 15, Issue 1

Welcome to the summer issue of our customer newsletter. As always, there is news to share about the use of GE Marine gas turbines throughout the world.

There is a lot of excitement for GE's LM2500+G4 aeroderivative marine gas turbine, witnessed by its soaring popularity among worldwide navies. In fact, many of the following highlights feature stories about this engine in this edition:

- United States Navy's FFG 62 frigate program progresses
- GE Marine and GE Power Conversion showcase company's naval electric drive power and propulsion capabilities at MADEX trade show
- Second FREMM frigate arrives in Egypt
- Pakistan Navy's second MILGEM keel laid
- Indonesia buys FREMM frigates
- Our team and their stories
- We are always here!



I encourage you to contact me if you have any questions or need additional information.

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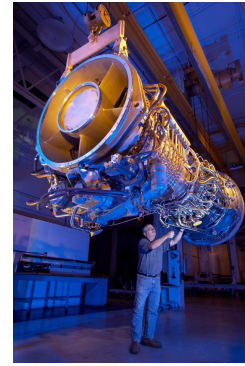
U.S. FFG 62 program progresses



The U.S. Navy continues to work with shipyard Fincantieri Marinette Marine on the detailed design phase for the build of the first-in-class *USS Constellation* (FFG 62) frigate. Fabrication is planned to start at the end of this year, and the ship is expected to deliver to the U.S. Navy in 2026; read more [here](#).

In addition, the U.S. Navy recently **announced** it ordered a second FFG 62 ship, scheduled for delivery in January of 2027.

For the FFG 62 program, GE will provide Fincantieri Marinette Marine with a LM2500+G4 marine gas turbine, as well as the gas turbine auxiliary skids (electric start, fuel forwarding and water wash systems) and the gas turbine control system.



LM2500+G4

The **LM2500+G4** (shown above) offers state-of-the-art naval engine technology. Including the new FFG 62 frigates, a total of 37 LM2500+G4s have been selected for naval applications; 20 engines on FREMM frigates for the French, Italian, Moroccan and Egyptian navies, as well as the Italian Navy's new PPA multipurpose patrol boats.

The U.S. Navy frigates will feature the same power dense GE LM2500+G4 gas turbine in a Combined Diesel eLectric And Gas turbine propulsion system.

One GE: World leader in naval electric drive power and propulsion



electric drive propulsion solutions including mechanical drive, hybrid electric drive or integrated full electric propulsion. GE's longstanding in-country partner, Hanwha Aerospace, co-manufactures the engine components for the ROK's naval and industrial gas turbines and assembles, tests, and provides service support of GE naval engines in country. Read more about GE's power and propulsion capabilities in [Navalnews.com](#).

Shown above standing behind the IFEP scaled model at GE'S booth during MADEX: David Kamensky, Jongsoo Kang, John Craib, Nick Smith, Mark Paine, Youngje Kim, ADM Kim (Naval Academy), Kris Shepherd, CAPT Lee (ADD) ADM Yoo, Jaebong Shin. Cheol Park and Jaebong Shin. Help was provided behind the scenes by the GE Power Conversion UK (Sinead Deery) and GE Marine US marketing (Lela Katzman) teams. Job well done!

GE's booth was bustling at the recent *MADEX International Marine Industrial Defense Exhibition* in Busan, Republic of Korea. The GE team promoted the benefits of integrated full electric propulsion (IFEP) for the Republic of Korea's KDDX destroyer and CVX (aircraft carrier) programs.

During the show, many shipyard and naval personnel visited GE's booth for discussions, and a GE technical presentation on IFEP by Adm. Yoo to the ROK Navy was well received.

GE is the only company in the world that offers a full spectrum of gas turbine and

LM2500+G4-powered FREMM arrives in Egypt

In April, the second multi-purpose FREMM frigate arrived at Alexandria Naval Base in Egypt as part of a comprehensive strategy to upgrade the Egyptian Navy. The new Italian *Bergamini* class frigate has been named *Berenice*, an ancient seaport on the west coast of the Red Sea. The first frigate, *Galala*, arrived in December. The Italian Navy is procuring two new FREMM ships to keep its fleet at 10 ships. Read more [here](#).

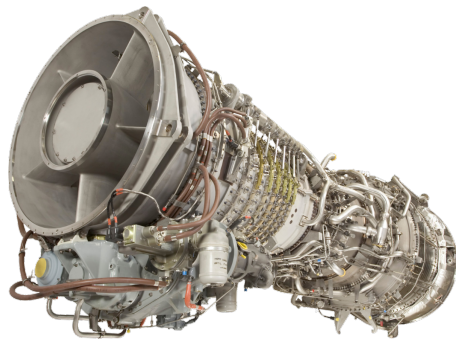
Keel laid for Pakistan Navy second MILGEM

A keel laying ceremony was recently held for the second MILGEM *Jinnah* class corvette being constructed for the Pakistan Navy. Read more [here](#) about the April 30 ceremony held at the Istanbul Naval Shipyard, Turkey.

GE is providing STM (Savunma Teknolojileri Mühendislik Ve Ticaret A.Ş.) with LM2500 gas turbines to power these new Pakistan Navy MILGEM corvettes. Two of the ships will be built in Turkey and the other two in Pakistan.



Indonesia buys LM2500+4-powered FREMMs



The Indonesian Navy and Fincantieri recently signed a contract whereby Fincantieri will sell the Navy six FREMM frigates. These state-of-the-art frigates will be powered by GE's LM2500+G4 gas turbine (shown left). According to Fincantieri, Indonesia's decision to acquire the FREMM was likely influenced by the U.S. Navy's purchase of a similar design for the FFG 62 frigate program. For more information on this order, click [here](#).

Honoring veterans

A force of more than 100 volunteers from the GE Veterans Network honored U.S. veterans doing clean up at the Hillcrest Cemetery in Ohio. Over a four-day period prior to Memorial Day, GE volunteers cleaned up the grounds and headstones, removed debris, and planted flags.

There are about 1,400 U.S. military veterans buried at Hillcrest --

spanning from the Civil War to the Vietnam War -- and about 95% of those buried veterans are African American.

Shown left to right are GE Marine team members Mark Lipton, Gary Lewis, Abdoulaye Ndiaye, Dave Nelson, Seth Lundgren, and Steve Maynard. Follow this [link](#) for more about this endeavor.



GE in the news

Here are newsworthy items about GE Marine gas turbines:

- "Australia's third Hobart-class destroyer sets off for combat trials," [Janes.com](#)
- "HHI starts building 1st next-gen KDX-III destroyer for Korean Navy," [Navaltoday.com](#)
- "USCGC Hamilton Conducts Exercises with Ukraine," [Seapowermagazine.org](#)
- "Austal USA Christened Littoral Combat Ship USS Canberra (LCS 30)," [Navalnews.com](#)

Run fast, turn hard, and leave a great wake

Look for GE Marine's new advertisement in several of the leading industry trade publications including *Naval Forces* and *USNI Proceedings*.

Run fast, turn hard
and leave a great wake



GE's marine gas turbines are the most reliable in the world, keeping 40 navies and more than 600 ships on mission. These engines offer up to 35% greater power density than the competition thanks to GE's innovative lightweight composite enclosure. **Get onboard!**

ge.com/marine

 Building a world that works

See you soon!

GE Marine and other GE businesses will exhibit at the upcoming [Sea Air Space](#) exhibition, August 2 to 4, National Harbor, Maryland. Please stop by and visit us at GE booth #726.

GE Marine will also attend the following industry trade shows:

GE: More than marine and aviation propulsion

GE is a global provider of leading-edge technologies to advance product performance and fleet readiness.

Please stop by our booth #726 to learn more about GE's marine and aviation engines, propulsion systems and additive, autonomous and digital technologies.

Sea, Air, Space
August 2 to 4, 2021
Gaylord National Resort and Convention Center
National Harbor, Maryland



We look forward to seeing you:

GE Marine • GE Power Conversion • GE Research
GE Aviation • GE Aviation Systems • GE Additive



- IDEF, August 17 to 25, Istanbul, Turkey
- DESI, September 14 to 17, London, United Kingdom

Separately, GE Marine reminds you that we are ready **anytime** to answer questions. Kindly reference the proper GE expert below in the "**Contact our team**" section of this newsletter.

Contact our team

If you need answers to questions, please don't hesitate to contact the following members of GE's marine gas turbine team.

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7/15/2021

THE WAVE - Summer 2021

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Learn more about GE marine gas turbines