



The UPM Market Informer



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Major Milestone for Siemens

Siemens Energy said it has achieved a major milestone by successfully starting the world's first SGT6-9000HL gas turbine at Duke Energy's Lincoln Combustion Turbine Station. The first fire of the turbine confirms the engine and the auxiliary systems – including the gas supply, lube oil system, control system and startup systems – are working together as designed, Siemens said. During first fire, the SGT6-9000HL ramped up to a pre-determined test speed, and the combustion system ignited.

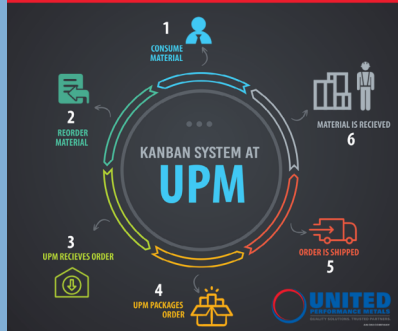
In November 2019, Siemens delivered the 402 MW unit from its manufacturing plant in Charlotte, N.C., to Duke Energy's Lincoln station near Denver, North Carolina, U.S., where workers lifted the 340-ton turbine onto its foundation. After the first phase of testing is completed, the SGT6-9000HL will continue its four-year testing plan (2020-2024), gradually introducing technologies to achieve the next level of efficiency. [Read more on this story](#) Source: Diesel & Gas Turbine Worldwide

Mills Announce Price Increase

North American Stainless, ATI Specialty Rolled Products and ATI Standard Stainless Sheet Products have announced price increases going into affect December 1, 2020. These include Stainless discrete plate (DPM), standard and duplex plate products increasing by \$.03/lb. Other changes include #3 and #4 polish extras reduced by 10 percentage points, and changes to cut-to-length extras.

U.S.S GAUGE	THICKNESS	WIDTH	LENGTH	CWT
3/8" -14	.3900 - .0700	36" - 60"	72" - 360"	\$4.50
15 - 20	.0699 - .0330	36" - 60"	60" - 240"	\$5.00
21 - 24	.0329 - .0220	36" - 60"	60" - 240"	\$7.00
25 - 26	.0219 - .0160	36" - 60"	60" - 240"	\$9.00

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Surcharge Totals August 2020 - January 2021

	Aug	Sep	Oct	Nov	Dec	Jan
15-5	0.4637	0.4792	0.5133	0.5069	*	*
15-7	0.6105	0.6376	0.7062	0.7024	*	*
17-4	0.4563	0.4700	0.5015	0.4959	*	*
17-7	0.5635	0.5951	0.6478	0.6360	*	*
201	0.4405	0.4570	0.4944	0.4883	*	*
301 7.0%	0.6785	0.5874	0.6390	0.6277	*	*
302/304/304L	0.5569	0.6481	0.7052	0.6922	*	*
304-8.5%	0.6120	0.6738	0.7340	0.7201	*	*
305	0.8015	0.8591	0.9395	0.9200	*	*
309	0.8326	0.8906	0.9705	0.9510	*	*
310	1.1741	1.2700	1.3904	1.3595	*	*
316/316L	0.7902	0.8363	0.9251	0.9156	*	*
316LS/316LVM	1.0900	1.1800	1.2300	*	*	*
317L	0.9058	0.9573	1.0616	1.0538	*	*
321	0.6492	0.6906	0.7537	0.7391	*	*
347	0.9590	1.0005	1.0635	1.0489	*	*
409/409 Mod	0.1774	0.1696	0.1813	0.1813	*	*
410/410S	0.1842	0.1765	0.1881	0.1881	*	*
430	0.2243	0.2170	0.2280	0.2280	*	*
434	0.2631	0.2556	0.2739	0.2765	*	*
439	0.2330	0.2258	0.2366	0.2366	*	*
440A	0.2243	0.2170	0.2280	0.2280	*	*
2205	0.6785	0.6995	0.7700	0.7718	*	*
263	4.6223	4.5819	4.5415	4.5356	5.0112	5.3020
276	4.3545	4.5443	4.5846	4.6333	5.0723	5.3060
A286	1.1963	1.2611	1.3262	1.3895	1.5397	1.6044
330	1.5141	1.5934	1.7000	1.8123	2.0237	2.1005
400	2.6200	2.7798	3.0520	3.3636	3.7780	3.9412
455	0.7000	0.7400	0.7700	*	*	*
465	0.8200	0.8900	0.9100	*	*	*
600	2.9608	3.1118	3.3344	3.5831	4.0314	4.1811
601	2.5877	2.7129	2.8952	3.0976	3.4642	3.5880
617	4.3728	4.4409	4.4718	4.5289	5.0047	5.2617
625	4.9088	5.0677	5.1746	5.2960	5.7021	5.8839
718	4.9239	5.0456	5.1730	5.3134	5.6402	5.7691
X-750	3.5389	3.6860	3.9024	4.1440	4.5797	4.7254
825	2.0068	2.1070	2.2015	2.3032	2.5553	2.6628
HX	2.7909	2.9228	2.9887	3.0624	3.3957	3.5583
188	5.8000	6.3400	6.6600	*	*	*
CCM	5.6500	6.8400	7.3000	*	*	*
L-605	6.5200	7.1300	7.4900	*	*	*

*Surcharge currently not available

Aerojet Rocketdyne Opens Arkansas Factory for National Security Initiatives

Rocket and propulsion systems manufacturer Aerojet Rocketdyne has officially opened its new rocket motor facility in southern Arkansas.

The company said the state-of-the-art engineering, manufacturing, and development site in Camden, Arkansas, would help Aerojet Rocketdyne produce large solid rocket motors for vital next-generation national security initiatives, including strategic deterrence, hypersonics, and missile defense.



The company's large solid rocket motor system and post-boost propulsion system will be used in Northrop Grumman's nationwide Ground Based Strategic Deterrent system, officials said.

"Camden is poised to become a major center of large solid rocket motor production," Aerojet Rocketdyne President and CEO Eileen Drake said in a statement.

Aerojet Rocketdyne broke ground on the 17,000-square-foot facility — announced as part of a multi-year consolidation and modernization effort — last spring.

The company has operated in Camden for more than 40 years and currently produces 75,000 large rockets per year. Aerojet said in 2018 that it planned to add 100 jobs to its 800-employee workforce over the following three years.

"Aerojet Rocketdyne's investment in Camden is solidifying the area as a major player in the defense industry, not to mention bringing dozens more jobs to the community," said Rep. Bruce Westerman.

Source: Andy Szal for Thomas Insights. Photo credit Aerojet Rocketdyne

Senior Wins Contract with Pratt & Whitney

Senior PLC, the international manufacturer of high technology components and systems, said it's Senior Aerospace Thailand operating business owned has won a multi-year contract with Pratt & Whitney.

The company will supply precision machine parts for the PW800 engine series.

The contract will commence immediately with production to start in 2021. The contract is to provide precision machine vanes for Pratt & Whitney's business aviation sector headquartered in Canada.

"We are delighted to be awarded this important contract and are excited to work with Pratt & Whitney as a direct supplier," said Simon Shale, chief executive of Senior Aerospace Thailand in a statement.

"The significant investments we have made in our Senior Aerospace Thailand facilities enables us to be highly competitive and bring real value to our customers. This is a further example of how Senior can provide excellent and cost-competitive solutions for our customers." *Source: Proactive*

The Navy Hires Boeing to Develop A Very Fast and Long-Range Strike Missile Demonstrator

Boeing has received a \$30M contract to help the U.S. Navy develop a supersonic ramjet missile element as part of the service branch's modernization of its carrier-based weapons and air strike fighters.

The Navy Air Warfare Center Weapons Division and Boeing will build the Supersonic Propulsion Enabled Advanced Ramjet missile demonstrator to help the service establish requirements for future carrier-based sea and land strike weapon systems, the company said Tuesday.



Steve Mercer, SPEAR program manager at Boeing, said the weapon is meant to be integrated with the carrier strike fleet and F/A-18 Super Hornet fighter aircraft to defend against advanced threats.

The award builds on Boeing's experience in supersonic technology development, including the Variable Flow Ducted Rocket in 2014 and X-51 Waverider vehicle in 2010.

NAWCWD and Boeing are scheduled to demonstrate SPEAR in late 2022. *Source: The Drive*

US Corporate Buyers Will Drive 44GW to 72GW of New Renewables Over Next 10 Years



Corporate buyers of renewable energy will drive the development of 44 GW to 72 GW of new wind and solar projects in the United States over the next decade, according to research published Tuesday by IHS Markit.

IHS found corporate-driven power purchase agreements (PPAs) could represent 20% of all utility scale renewable power additions from 2021 to 2030.

Simultaneously, PPA offer prices "are on the rise for both wind and solar projects" according to new research from LevelTen Energy. The firm says its P25 solar index, which shows the 25th percentile of solar prices, has shown prices rising over the last six months, while wind prices have been trending upward for the past two years and are now higher than solar. [Click here for more on this story.](#)

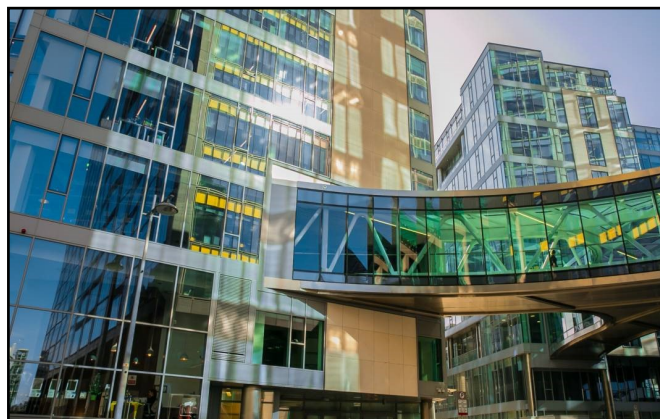
Source: Robert Watson for Utility Dive. Photo by Robert-Lucian-Crusitu

Strong Present-Bright Future: Why Ireland's Start-Up Scene is Full of Promise

Just looking at the names of the companies that operate in Ireland, it doesn't take you long to recognize that medtech is a significant part of Ireland's economy, and an attractive place to do business. With nine out of the world's top 10 medtech companies based in Ireland, it's safe to say it's one of the world centers for the industry, and an essential sector for the country's economy.

Interest in medtech has increased dramatically during the course of COVID-19 – much of the focus has been dedicated to those who have provided parts for ventilators, personal protective equipment, testing, as well as pharmaceutical companies playing their part in a search for a vaccine.

Medtronic, with its base in Dublin, was at the forefront of the global response to ventilator shortage as it shared its specifications for the PB 560 ventilator to enable multi-industry participants to rapidly manufacture devices to aid the front line. They received over 100,000 registrations for the specification – including from large scale manufacturers in Canada, Vietnam and Taiwan.



Boston Scientific, BD, Baxter and DePuy are also among those located in the country, while in this issue, Jacqui O'Connor from MedScan3D describes Galway as "the medtech center for cardiology devices" given the vast amount of companies operating in the field.

There is good reason that upwards of 200 companies operate in Ireland. Being able to act as the bridge that can serve and facilitate both the U.S and European market also helps its cause, along with its reputation for innovation, research and manufacturing – helping it become the second largest exporter of medical products in Europe.

Away from the more household names in the sector, its start-up scene appears to be in rude health, and has also played its role in combatting the pandemic facing the world. In June EIT Health announced that 10 of the 89 start-ups to receive €40,000 worth of backing for its Head start program were from across Ireland. By comparison, six UK firms had received the same backing.

Though clichéd, it's an example of how the country punches above its weight given its population, but the reputation the sector has developed in Ireland over the years means this should not surprise anyone with knowledge of life sciences. The range of solutions on offer from the 10 companies also speaks volumes considering the pressing needs of the Coronavirus pandemic while addressing other needs.

These include reproduction, diagnostics for sepsis, the use of nanotechnology to help with surgical procedures along with those that are more at home with general public like AI solutions and wearables, showing that innovation doesn't exist in one specialist area in the country, but across the entire medtech spectrum. Little wonder that, per capita, it's among the largest employers of medtech professionals in Europe. From a competitive standpoint, Ireland is going to take some beating.

Source: *Ian Bolland MedTech News*