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Denmark: Defence Procurements



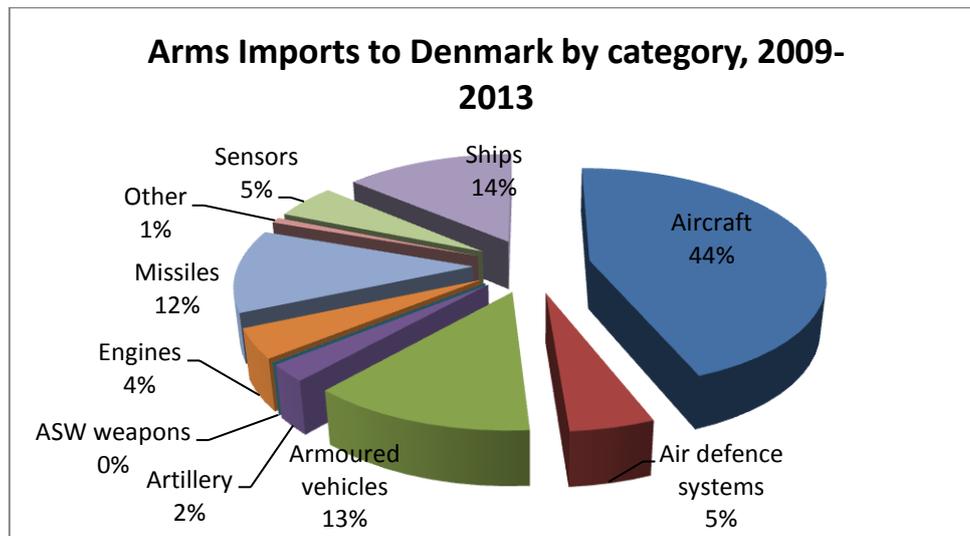
Nowadays, the operations that the Danish armed forces are taking part are different from the ones in the past. New tactical threats, greater intensity of missions, larger number of international operations and their big distance from Denmark, as well as the wide dispersal of the contingents within the specific mission areas are some of the new challenges the Danish Armed Forces are facing. Therefore, Denmark has to import new defence equipment to tackle these new challenges. According to the Stockholm International Peace Research Institute (SIPRI) United Kingdom has a leading role in the Danish armament imports. Apart from the European country, other important countries that export arms to Denmark, for the five last years, are Sweden, Netherlands, Germany and United States. Danish armament imports are rather limited in their geographical preference as five out of the seven first countries that export arms to Denmark, based on the amount of funds allocated, are European.

Imports (expressed in US\$ m. at constant 1990 prices)

	2009	2010	2011	2012	2013	Total
Germany (FRG)				24		24
Israel		1			10	11
Netherlands				43		43
Sweden	64	4		3		70
Switzerland	3			4		7
UK	63	13				75
United States	≈ 1			12		12
<b>Total</b>	<b>129</b>	<b>17</b>		<b>85</b>	<b>10</b>	<b>241</b>

Source: SIPRI Publications, Arms Transfers Database

Aircraft were the predominant area of imports for the period 2009-2013. The 2<sup>nd</sup> most important sector is that of ships whereas other areas such as armored vehicles, missiles and sensors follow. It is important to state that the import of aircraft to the country covers almost half (44%) of the total imports for the period 2009-2013.



United Kingdom is in the first place of arm exports to Denmark mainly due to the fact that the Danish Army procured 14 EH-101-400 helicopters in 2001. Deliveries were concluded in 2010. The total amount of the procurement reached 329 million dollars. Denmark received an offset package including production of components in Denmark for Danish and other EH-101.

Kyriazis Vasileios,  
Epicos Newsletter Head Editor

## Danish Authorities to Invest \$75 ml to Cyber Defence



DANISH DEFENCE  
INTELLIGENCE SERVICE

Nowadays, warfare

is undergoing essential changes.

Nations and societies are facing several nonconventional threats that are mainly associated with their cyber security. A

state and/or an international organization may attack and attempt to damage another nation's information networks, air defense, power and water supply systems and essential websites. Therefore the nations should find a way of managing such threats. Moreover it must be stressed that the main focus of the preparation for the confrontation of such crises has shifted from the actual crisis to the implementation of measures for the deterrence of the crises and to the creation of the proper structures that will minimize the effects of it, mainly because it is easier and most cost-effective to prevent such crises that to deal with their consequences. Under this notion, Denmark, from this year on will be developing cyber warfare strategy toward hostile countries and organizations. About 465 million kroner (\$75 mln) will be invested in the creation of an offensive cyber warfare unit by 2017.

According to its plan, the task will be assigned to the Danish Defense Intelligence Service. Danish Defense Intelligence Service collects, analyses, and disseminates information concerning conditions abroad which are of importance to Denmark's security, and to the security of Danish military units deployed on international missions. Intelligence activities include collection of information of political, financial, scientific, and military interest. It also includes international terrorism, extremists, international arms trafficking, and the proliferation of weapons of mass destruction.



It is worth mentioning that the Danish Defense Intelligence Service will have the power, for the first time to conduct cyber-attacks. This decision has been taken after sensitive defence secrets and business information fell into the hands of foreign hackers, throughout last year.

Kyriazis Vasileios,  
Epicos Newsletter Head Editor

## Epicos "Industrial Cooperation and Offset Projects"



Epicos "Industrial Cooperation and Offset Projects" provides a unique set of online tools enabling the structure, identification and implementation of comprehensive Offsets programs, through a searchable database. By introducing different offset projects and ideas proposed by local A&D industry it ensures the optimum cost for Prime Contractors and reassures that the priorities of local industry are fully met...

[For Further Information Press Here](#)

### Omni directional, long range thermal beacon for IFF military and homeland security applications



A leading company in developing and producing high-end innovative thermal IFF (Identification Friend or Foe) emitters and high power visible and infrared laser illuminators and designators, is proposing the implementation of a new omni-directional, long range identification device for use by armed forces personnel, as well as military vehicles.

[For Further Information Contact our ICO Department](#)

Mail at: [g-menexis@epicos.com](mailto:g-menexis@epicos.com)

### WiFi Wireless networks to support coverage of large campuses or mobile formations



A leading company in the design, development and production of networking infrastructure equipment for carrier and service provider networks, is proposing the implementation of a WiFi solution introducing a completely new WLAN that eliminates the coverage and capacity limitations of traditional WLAN architectures and the need for cell planning and site surveys. This solution is ideal for rapid deployment of mobile HQs and other data-on-the-move formations.

[For Further Information Contact our ICO Department](#)

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### **Triumph Group Announces Completion of Agreement with Spirit AeroSystems to Assume Production of Gulfstream G650 and G280 Wing Programs**



Triumph Group, Inc. today announced the closing of the previously announced agreement with Spirit AeroSystems Holdings, Inc. to take over production of the Gulfstream G650 and G280 wing programs located in Tulsa, Oklahoma, effective December 30, 2014. The business will operate as Triumph Aerostructures-Vought Aircraft Division-Tulsa and will be included in the Aerostructures Group segment. Under the terms of the agreement, Triumph received \$160 million in cash plus assets required to run the business from Spirit to cover the anticipated future cash flow needs of the programs, with no additional capital contributions expected by Triumph. The business is expected to add approximately \$250 million in annual revenue and to be immediately accretive to earnings per share, reflecting initial estimates of purchase accounting adjustments and excluding synergies resulting from the transaction and transaction related expenses. Triumph will update its fiscal year 2015 guidance to reflect the financial impact of the work transfer when it releases its third quarter fiscal year 2015 earnings in January.

Jeffrey D. Frisby, Triumph's President and Chief Executive Officer, said, "We are pleased to have completed the transfer of the Gulfstream wing programs from Spirit and are excited about what this transaction means to our business, our employees, our customers and our shareholders. The addition of these programs further establishes Triumph as a leader in fully integrated wing design, engineering and production and advances our standing as a strategic Tier One Capable aerostructures supplier. Moreover, these programs improve our customer balance and program and platform diversity within our Aerostructures segment. We are confident that we can execute these programs effectively and look forward to working with the outstanding group of employees in Tulsa to drive improvements and deliver long term value from these programs."

Triumph Group, Inc., headquartered in Berwyn, Pennsylvania, designs, engineers, manufactures, repairs and overhauls a broad portfolio of aerostructures, aircraft components, accessories, subassemblies and systems. The company serves a broad, worldwide spectrum of the aviation industry, including original equipment manufacturers of commercial, regional, business and military aircraft and aircraft components, as well as commercial and regional airlines and air cargo carriers.

More information about Triumph can be found on the company's website at [www.triumphgroup.com](http://www.triumphgroup.com).

Source: Triumph Group, Inc.

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### Cubic Wins Italian Army Follow-on Option Contract for Home Station Training



Cubic Defense Applications, a subsidiary of Cubic Corporation (NYSE: CUB) announced today it was awarded a follow-on option subcontract, through its strategic partner in Italy, STE S.p.A., worth more than \$6.5 million to enhance full spectrum training capacity for the Italian Army. The contract provides a home station training resource consisting of Multiple Integrated Laser Engagement System (MILES) and Counter Improvised Explosive Devices (CIED) kits to be provided to the Italian Army's combat regiments.

"This contract is further evidence of the Italian Army's trust and confidence in Cubic's ability to produce effective and efficient training products for their soldiers – solidifying our position as the Italian Army's training system vendor of choice," said Dave Schmitz, president, Cubic Defense Applications. "The training systems provide a capability for the Italian Army to implement and experience realistic training at home station and thereby further enhance their readiness."

Cubic's MILES solutions are crucial for warfighter training because they enable soldiers to rehearse combat skills and learn from their mistakes safely in a battlefield setting. These devices are used during live force-on-force training events, and provide the critical real-time feedback for forces to achieve and sustain mission readiness. MILES delivers superior performance because of its realistic weapon simulation and casualty assessment accuracy for vehicles and fixed structures. Cubic's CIED kits offer realistic detection and reaction training against IED threats. Built with Cubic's extensive technical knowledge and proven functional expertise, the kits consist of wireless and manual tripwires and control devices to simulate an IED threat. All contract work will be performed in 16 regimental locations throughout Italy.

### About Cubic Corporation

Cubic Corporation is the parent company of three major business segments: Transportation Systems, Defense Systems, and Mission Support Services. Cubic Transportation Systems is a leading provider of automated fare collection systems and services for public transit authorities. Cubic Defense Systems is a leading provider of realistic combat training systems and secure communications. Mission Support Services is a leading provider of training,

operations, maintenance, technical and other support services for the U.S. and allied nations. For more information about Cubic, see the company's Web site at [www.cubic.com](http://www.cubic.com).

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## Boeing, Qatar Airways Finalize Order for Four 777 Freighters

Boeing and Qatar Airways have finalized an order for four 777 Freighters, valued at \$1.24 billion at current list prices. The airline also has purchase rights for four additional airplanes, which when exercised will bring the combined value to \$2.46 billion. Qatar Airways first announced an intent to order the four 777 Freighters at the 2014 Farnborough Airshow.

"As Qatar Airways develops its cargo route network, we are pleased they have selected the 777 Freighter to be part of this expansion," said Boeing Commercial Airplanes president and CEO Ray Conner. "We greatly value the long-term partnership Qatar Airways and Boeing have shared over nearly a decade." Qatar Airways currently operates a fleet of 37 Boeing 777-300ERs (Extended Range) and 777-200LRs (Longer Range), in addition to seven 777 Freighters.

"We aim to make Qatar Airways one of the world's major air cargo players," said His Excellency Akbar Al Baker, CEO, Qatar Airways. "With its proven track record, long-range capabilities and excellent operational efficiencies, the 777 Freighter will be a key player in enabling Qatar Airways to grow its footprint and economically deliver cargo further, connecting many long-haul destinations from our hub in Doha, especially with the expansion of Doha's new freight terminal."

The 777 Freighter is capable of flying 4,900 nautical miles (9,070 kilometers) with a full payload and general cargo market densities, making it the world's longest-range twin-engine freighter. The airplane's range capability translates into significant savings for cargo operators: fewer stops and associated landing fees, less congestion at transfer hubs, lower cargo handling costs and shorter cargo delivery times. Boeing is the undisputed air cargo market leader, providing over 90 percent of the total worldwide dedicated freighter capacity.

Global air freight traffic is forecast to grow at an annual rate of 4.7 percent, doubling the cargo traffic over the next 20 years, according to the Boeing World Air Cargo Forecast released in October.

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**Source:** Boeing, Epicos

## Boeing, Air New Zealand Finalize Order for Two 787-9 Dreamliners

Boeing (NYSE: BA) and Air New Zealand have finalized an order for two additional 787-9 Dreamliners, valued at \$514 million at current list prices. The order, booked in 2014, comes six months after Air New Zealand celebrated the first 787-9 delivery in July.

"The entry into service program has gone very smoothly and we've been incredibly pleased with the aircraft's performance," said Christopher Luxon, chief executive officer, Air New Zealand. "These new 787-9 Dreamliners will provide us with additional flexibility as we move forward with our growth plans."

This order will eventually increase the airline's fleet to a total of 12 787-9s, which will operate alongside 15 777-200ERs (Extended Range) and 777-300ERs.

"Air New Zealand was the first airline in the world to take delivery of a 787-9 and one of the first to recognize the synergies of operating both the 787 and 777. The order shows their confidence in our long-haul products," said Dinesh Keskar, senior vice president, Asia Pacific and India Sales, Boeing Commercial Airplanes. "With its new aircraft and superior passenger experience, it is no surprise Air New Zealand was voted Airline of the Year by [Airlineratings.com](http://Airlineratings.com) for the second year in a row."

Air New Zealand is the launch customer of the 787-9 and currently operates three of the aircraft in its fleet. Including today's announcement, the airline now has nine unfilled 787-9s on order.

The 787-9 complements and extends the 787 family, offering airlines the ability to grow routes opened with the 787-8. With the fuselage stretched by 20 feet (6 meters), the 787-9 can fly up to 40 more passengers an additional 450 nautical miles (830 kilometers) with the same exceptional environmental performance – 20 percent less fuel use and 20 percent fewer emissions than the airplanes it replaces. The 787-9 leverages the visionary design of the 787-8, offering passenger-pleasing features such as large, dimmable windows, large stow bins, modern LED lighting, higher humidity, a lower cabin altitude, cleaner air and a smoother ride.

To date, 58 customers around the world have ordered 1,071 787s.

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## **SOURCE Boeing**

### **BAE Systems Applied Intelligence Reveals Top Five Predictions for 2015**

Based on its work this year in the fields of cyber security and financial crime, BAE Systems Applied Intelligence believes the following will be the top five predictions for the digital criminality landscape in 2015.

1. Fragmentation of cyber-criminal activities will pose new challenge to detection and investigation

“The past five years have seen an increasing industrialisation of the cyber-criminal marketplace. Specialisms such as malware authoring, counter-AV testing, exploit kits, spamming, hosting, money-muling, and card cloning are becoming miniature markets of their own. Crime as a service is a reality, lowering the barrier to entry for budding criminals and fuelling the growing threat, year after year.

“Law enforcement action has done well to date by focusing on the big problem sets and causing significant disruption to these activities. In 2015, BAE Systems Applied Intelligence anticipates these efforts will cause a fragmentation in the market as criminal actors split into smaller units using newly developed and more resilient capabilities. We believe this will present a greater challenge for the security community. We also see the need for law enforcement to find ways to drive efficiency and automation into their intelligence collection and analysis work streams. This should enable them to ramp up the number of simultaneous investigations and make disruption a ‘business as usual’ activity,” said Scott McVicar, Managing Director, Cyber Security, BAE Systems Applied Intelligence

2. We will enter a period of ‘hyper regulation’

“In the context of millions of dollars in fines, financial institutions now have an imperative to actively search out criminals such as money launderers, rather than simply being compliant

with regulatory guidance. We believe more organisations will hire more big hitters from the law enforcement and national security world to show they are serious about stopping the criminals.

“Organisationally, we will see continued efforts to remove silos between Risk, Compliance and Information Security departments, a continuing move towards these departments to work more closely together, and requirements for combined detection capabilities. From an operational perspective, joining-up investigative capabilities to develop a single intelligence platform across the enterprise will be increasingly key. This will be combined with the deployment of integrated case management for all forms of financial crime across all financial institutions,” said Scott McVicar, Managing Director, Cyber Security, BAE Systems Applied Intelligence.

3. The arrival of the next industrial revolution will be accelerated by building in security from the start

“One of the most disruptive forces in the coming generation will be the growth in interconnectivity of machines, data, and people. Known as the “Internet of Things” (IoT) or the “Internet of Everything” (IoE), this disruption is expected to bring us the next industrial revolution whereby automation and orchestration of many tasks in manufacturing, retail, transport and the home lead to greater efficiency and massive productivity gains. Little stands in the way of this advance in technology; however security professionals are already voicing concern about both the systematic risks of greater connectivity, as well as the risks to life with machines such as cars and medical equipment becoming part of the connected world.

“We anticipate that 2015 will see increased focus on building in security-from-the-start for the next industrial revolution; security professionals will be tasked with finding solutions for protecting critical systems and national scale infrastructure. They will look at techniques such as segmenting high value systems away from high risk activity whilst retaining connectivity and trusted data flows. With a broader attack surface we expect that criminals, activists, and spies will continue to penetrate networks. Limiting potential impact whilst enabling the myriad of advantages connectivity brings will be key to realising the benefits. Rather than being an impediment, we expect that good security can actually speed up the realisation of this next industrial revolution,” said Scott McVicar, Managing Director, Cyber Security, BAE Systems Applied Intelligence.

4. The art of attribution will be impacted by deception efforts

“Cyber threat reporting and public whitepapers have grown in regularity and prominence during 2014. One of the key parts to a contemporary threat report is attribution – the small details in the code and attack behaviour which give away clues as to the perpetrators of attack campaigns. What should be a scientific process is still more of an art, with technical indicators mixed in with contextual information and cultural references providing hints

which are picked up by researchers. Attackers read the resulting public reports as well, we can see evidence of this from the shifts in behaviour which occur immediately afterwards.

“In 2015, we anticipate that attackers will go to greater lengths to improve their own operational security and increase their use of deception – that is, the placing of false flags to throw off researchers and hamper attribution. This runs the risk of undermining the art of attribution and casting a shadow over the field of threat intelligence. Researchers will need to adopt practices from the professional intelligence community and tread more carefully when drawing conclusions about who is ultimately behind cyber attacks,” said Scott McVicar, Managing Director, Cyber Security, BAE Systems Applied Intelligence.

#### 5. 2015 will be crunch time for Big Data

“We’ve seen the rise of ‘Big Data’ in recent years with technologies such as Hadoop moving from niche projects to mainstream workhorses. Businesses in sectors such as telecoms, banking, and technology have shown most interest and many have already invested in big data technologies. We are now entering a maturing phase of the lifecycle, with competing platforms, support services, and a strong market for developers, data scientists and administrators. However, business leaders who’ve funded the investment are increasingly asking their technology teams to show value from their implementations.

“We anticipate 2015 to be crunch time for Big Data crunching – where those who are still running at the prototype phase are expected to deliver more towards specific business use-cases to justify continued investment. This will focus minds from ‘getting more data in’ to ‘getting more out of existing data’. There will be a shift from technologies which enable storage and basic reporting to those which enable meaningful intelligence to be extracted. Use-cases such as network monitoring, fraud-detection, and security analytics will be popular – driven by the increasing overlap between cyber threats and other risks and more focused board-level attention on managing cyber security across the business,” said Scott McVicar, Managing Director, Cyber Security, BAE Systems Applied Intelligence.

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**Source:** BAE Systems, Epicos

### Thales to Upgrade Fire Control System on Charles De Gaulle Aircraft Carrier

On behalf of the French Defence Procurement Agency (DGA), the Joint Armaments Cooperation Organisation (OCCAr)[1] has awarded Thales a contract to upgrade the fire control system for the anti-air missiles deployed by the French Navy's Charles de Gaulle aircraft carrier. The new equipment will be installed as part of the refit planned in 2018. Work will be completed when the Charles de Gaulle returns to active service.

Thales will upgrade the SAAM France surface-to-air anti-missile system, which protects the Charles de Gaulle carrier from all types of air threats and was developed and installed in the 1990s. The upgrade will include a state-of-the-art open IT architecture and will facilitate subsequent maintenance work on the system and extend its service life.

The Thales solution is an opportunity to apply the latest software architecture concepts developed for the CONTROLView command and control system.

CONTROLView performs threat evaluation, weapon assignment and coordination of very short, short and medium-range engagements, enabling commanders to make complex, critical decisions more quickly and with greater precision and security.

This contract award is an endorsement of Thales's research efforts in system and software engineering and its continuing investment in air defence. Based on the technology developed for the CONTROLView programme, Thales can offer a mature, derisked missile fire control solution for naval operations.

This contract consolidates Thales's leadership in naval fire control systems and secures future developments on the FSAF[2] programme for the French Navy's Horizon frigates as well as the Charles de Gaulle aircraft carrier. These developments could also benefit the future programme to upgrade the SAMP/T land-based medium-range air and missile defence system.

#### About Thales

Thales is a global technology leader in the Aerospace, Transportation, Defence and Security markets. In 2013, the company generated revenues of €14.2 billion with 65,000 employees in 56 countries. With its 25,000 engineers and researchers, Thales has a unique capability to design, develop and deploy equipment, systems and services that meet the most complex security requirements. Thales has an exceptional international footprint, with operations around the world working with customers and local partners.

**Source:** Thales, Epicos

## Honeywell Starts Full-Scale Production of Low-Global-Warming Propellant, Insulating Agent, And Refrigerant

Honeywell (NYSE: HON) announced today that it has started full-scale commercial production of a low-global-warming-potential (GWP) material used as an aerosol propellant, insulating agent and refrigerant.

The material, known by the industry designation HFO-1234ze and marketed by Honeywell under its Solstice® line of low-global-warming materials, is being produced at the Honeywell Fluorine Products facility in Baton Rouge, La.

"Honeywell's Baton Rouge production facility is ready to serve customers around the world with this innovative material, which has an ultra-low GWP of less than 1," said Ken Gayer, vice president and general manager of Honeywell's Fluorine Products business. "We are seeing increasing demand for our entire Solstice line of low GWP materials, and this new product has already been adopted by a range of customers globally."

Honeywell's Baton Rouge facility was built in 1945 and continues to serve as one of Honeywell's main manufacturing sites for its Performance Materials and Technologies business. The site employs more than 200 people.

Louisiana Governor Bobby Jindal said, "Honeywell helps support hundreds of jobs in our state, and we're proud the company is expanding in Baton Rouge with a brand new product line. This project is a good example of how Louisiana's outstanding business climate is convincing companies like Honeywell to reinvest in our state, retain great existing jobs and create additional new career opportunities for our people."

In September 2014, at an event sponsored by the White House, Honeywell announced that it will increase production of its low GWP refrigerants, insulation materials, aerosols and solvents, and, prior to 2020, will drive a 50 percent reduction in its annual production of high GWP hydrofluorocarbons (HFCs) on a CO<sub>2</sub> equivalent basis. The company projects that use of its low GWP Solstice materials to replace HFCs will eliminate more than 350 million metric tons in CO<sub>2</sub> equivalents by 2025, equivalent to removing 70 million cars from the road for one year.

HFO-1234ze is a next-generation material that is non-ozone-depleting, non-flammable per ASTM E681 and ISO 10156:2010 testing, and has a low-global-warming-potential of less than 1. It is also not a volatile organic compound (VOC), as determined by the U.S. Environmental Protection Agency (EPA) and the California Air Resource Board (CARB). HFO-1234ze is considered a preferred replacement for both HFC-134a (which has GWP of 1,300) and HFC-152a (which is flammable and has a GWP of 138) in aerosol applications and thermal insulating foams, including extruded polystyrene board and polyurethane foams. It is also being considered to replace HFC-134a for large stationary and commercial refrigeration

applications and, compared to other low GWP refrigerant options, Honeywell's HFO-1234ze provides energy efficiency benefits.

HFO-1234ze is part of Honeywell's line of Solstice hydrofluoro-olefin (HFO) products that have extremely low global warming potentials – either equal to or less than carbon dioxide – and that are safe, available today and capable of making a significant positive environmental impact. Honeywell's Solstice HFOs are alternatives to high GWP HFCs and are energy-efficient, safe to use, non-ozone-depleting and have a minimal global warming profile.

Honeywell's Solstice line of HFOs include Solstice yf for automobile air conditioning, Solstice Propellant for aerosol applications, Solstice Liquid Blowing Agent and Gas Blowing Agent for foam applications, and Solstice Performance Fluid for use as an industrial solvent. Each of these products has been approved under the EPA's Significant New Alternatives Policy (SNAP) program.

In addition to its industry-leading line of low-global-warming-potential HFOs, Honeywell's Fluorine Products business manufactures and supplies non-ozone-depleting refrigerants used by top air-conditioning and refrigeration makers worldwide, blowing agents for energy-efficient foam insulation, hydrofluoric acid used in gasoline and steel manufacturing, and precursors for nuclear fuel.

Honeywell Performance Materials and Technologies (PMT) is a global leader in developing advanced materials, process technologies and automation solutions. PMT's Advanced Materials businesses manufacture a wide variety of high-performance products, including environmentally friendlier refrigerants and materials used to manufacture end products such as bullet-resistant armor, nylon, computer chips and pharmaceutical packaging. Process technologies developed by PMT's UOP business ([www.uop.com](http://www.uop.com)) form the foundation for most of the world's refiners, efficiently producing gasoline, diesel, jet fuel, petrochemicals and renewable fuels. PMT's Process Solutions business ([www.honeywellprocess.com](http://www.honeywellprocess.com)) is a pioneer in automation control, instrumentation and services for the oil and gas, refining, pulp and paper, industrial power generation, chemicals and petrochemicals, biofuels, life sciences, and metals, minerals and mining industries.

Honeywell ([www.honeywell.com](http://www.honeywell.com)) is a Fortune 100 diversified technology and manufacturing leader, serving customers worldwide with aerospace products and services; control technologies for buildings, homes, and industry; turbochargers; and performance materials. For more news and information on Honeywell, please visit [www.honeywellnow.com](http://www.honeywellnow.com).

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**Source:** Honeywell, Epicos