

Nuclear, Missile & Space Digest

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A Fortnightly Newsletter from the Indian Pugwash Society

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- Gaganyaan: First test flight of India's first manned space mission this year
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- Russia says it delivered S-400 missile system to India on time despite pressure from US
- Robots and humans are gearing up to explore space with ISRO's Gaganyaan



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B. Russia

- Russia's Defence Ministry says situation at Zaporizhzhia nuclear plant difficult but under control
- Ukraine Says Russia Bombed City Housing Nuclear Plant
- Russian Defence Ministry says Ukraine tried to capture Zaporizhzhia nuclear plant
- Russia's military suffering manpower shortages -U.S. intelligence
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- Russian air defenses down eight combat drones in Ukraine operation, top brass reports
- Foreign military contingents join Russia's Vostok 2022 strategic drills in Far East
- Russia tests upgraded Ka-52M attack helicopter in Ukraine operation
- Defense chief reveals over \$8.7 bln in deals inked at Army 2022 forum
- Defense ministers from 35 countries took part in Moscow conference on security
- Russian Pacific Fleet ships conduct missile firings in Vostok 2022 strategic drills
- Russia's Shoigu: Ukraine committing 'nuclear terrorism' at Zaporizhzhia
- Russia should not take peaceful nature of US bioresearch on trust - Defense Ministry
- Russia says it foiled Ukrainian attempt to seize nuclear plant
- Russia, Ethiopia to Discuss Military-Technical, Space Cooperation in October - Ambassador
- Russia-initiated meeting of parties to Biological Weapons Convention to be held next week
- Ukraine war: Russia wants to destroy Europeans' normal life, Zelensky warns
- Nuclear plant loses power line as Moscow, West energy row escalates
- Russian Tank Losses in Ukraine Hit 1,000 - Open Source Analysis
- Russian troops perform multiple launch of Iskander-M missiles at Vostok 2022 drills
- Russia, Turkey have no problems regarding shipment of S-400 air defense systems - senator
- Russia is buying North Korean rockets and artillery to use in Ukraine
- Russia is purchasing millions of rockets and artillery shells from North Korea, US official says
- All goals of Vostok-2022 exercise achieved - deputy defense minister
- Russian forces wipe out Ukrainian ammo depot in Kharkov Region - top brass
- Chechnya head says Ukrainian forces suffer heavy losses in attacks near Soledar, Seversk
- Fighting rages in areas near Russian-held nuclear plant in Ukraine
- Russians Killed Two Zaporizhzhia Nuclear Staff, Abused Others - Ukraine
- Russia backs IAEA call for shelling near Zaporizhzhia to stop, envoy says
- Russian aerospace forces destroy terrorist base in Idlib
- Katibat al Tawhid wal Jihad terrorist group's leader killed by Russian forces in Syria
- Forces regrouped at Balakleya, Izyum, redeployed to DPR, says Russian Defense Ministry
- Russian army eliminates over 2,000 Ukrainian militants in battles at Balakleya, Izyum
- Military Round-up from Sep. 10: Russia 'Regroups' Troops, as Ukraine Advances
- Russia's collapse in northeast Ukraine ignites fury from Putin loyalists
- Russia Not Pulling Troops Out of ZNPP, Kiev Must Be Forced to Stop Shelling Nuclear Plant
- The curtain protecting the dignity of Russia's military has been pulled back
- Putin's Kharkiv disaster is his biggest challenge yet. It has left him with few options
- Russia's defeats in Ukraine have strategists worried about Moscow's next move
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- Russian forces are demoralized and degraded - now we just have to 'drive the enemy out,' Ukraine says
- Ukraine expects Russian strikes on energy system to grow
- Putin tells U.N. chief he welcomes cooperation with IAEA over Zaporizhzhia plant - Kremlin
- Houses flooded after missiles hit major dam
- Russian leader reveals China's 'concern' over Ukraine
- Work on 'Strategic' Russia-Iran Cooperation Agreement at 'Final Stage': Putin
- Russian, Chinese warships begin joint patrolling in Pacific Ocean

C. China

- How the changing language in space reflects the geopolitical tensions on Earth
- The Chinese space experiment to help astronauts grow food in low gravity
- Shenzhou-14 crew completes 1st spacewalk mission; China's extravehicular tech 'more mature and task-oriented'
- Long March 5B rocket arrives at Wenchang spaceport for Mengtian space station lab module October launch
- China launches new remote sensing satellite
- China's near-space solar-powered drone that can substitute satellites makes maiden flight
- Chinese space designers eye moon base in volcanic caves for long-term stays after 2035
- China's Y-20 transport aircraft draws attention at Airpower 2022 in Austria
- China marks a milestone in new-gen heavy-duty rocket devt with successful engine test
- China supports continued presence of IAEA experts at Zaporizhzhia nuclear power plant
- Why China is speeding up research on core technologies
- President Xi stresses improving system to achieve breakthroughs in core technologies in key fields
- US in no position to mention 'responsible behavior' in space as Pentagon doc a grave threat to peace, security: Chinese FM
- How US can avoid repeating Cold War space race mistakes with China
- Leap-forward development of PLA Naval aviation force from shore-based to ship-based
- Chinese atomic clock trio bound for Tiangong space station in boost to GPS, dark matter probes
- China's record-breaking wind tunnel goes Mach 33 thanks to Australian invention
- Chinese and Indian troops in area of Jianan Daban begin disengagement
- China's Phase-4 lunar probe mission approved by state, expected to build basic structure for Intl Lunar Research Station

D. Pakistan

- Drone Technology: Pakistan achieved another milestone
- No Bayraktar Drones For India; Turkish CEO Says Will Sell TB2 UAVs Only To Brotherly Nations Like Pakistan, Ukraine
- Biden Administration approves \$450 million F-16 fleet sustainment programme to Pakistan
- Readout of Secretary of Defense Lloyd J. Austin III's Call With Pakistan's Chief of Army Staff General Qamar Javed Bajwa

E. Europe

- EU states prepare for emergency talks on Russian gas price cap
- UK, France, Germany Raise 'Serious Doubts' Over Iran's Commitment to Nuclear Deal
- EU to claw back energy firms' profits rather than cap Russian gas price
- EU eyes levy on fossil fuel firms to help consumers survive energy crisis
- EU proposes \$140 billion windfall tax on energy companies

F. Ukraine

- 'How risky is stand-off over Zaporizhzhia?
- IAEA chief Grossi says mission to Ukrainian nuclear plant is technical
- IAEA mission determined to reach Ukrainian nuclear plant despite delays
- Ukraine nuclear reactor shut down due to shelling, operator says
- Two IAEA inspectors to stay at Zaporizhzhia nuclear plant permanently
- Bombs fall as U.N. inspectors reach embattled Ukrainian nuclear plant
- IAEA Presence at Zaporizhzhia Nuclear Plant to Last "Until Sunday or Monday" - Director General
- Ukraine live briefing: Nuclear plant disconnected from main line; European leaders blast Nord Stream shutdown
- Ukraine live briefing: Kyiv claims areas 'liberated' in the south; Putin approves new foreign policy doctrine
- Ukraine fears radioactive contamination from Zaporizhzhia
- Zaporizhzhia nuclear plant loses main connection to power grid again
- Ukraine military chief says 'limited' nuclear war cannot be ruled out
- Why the next few months is crucial for the future of Ukraine's military
- Ukraine says it downs Russian missiles, UN pushes for nuclear plant's safety
- UN Watchdog Urges Security Zone at Ukraine Nuclear Plant
- Ukraine backs UN call for nuclear plant safe zone
- As Ukraine pushes southern offensive, it also hits Russia in the northeast
- Zelenskiy says next year's budget will be a war budget, focus on defence
- Ukraine forces employing Western arms to devastating effect - U.S. top general
- Ukraine's top general warns of Russian nuclear strike risk
- Zelensky claims significant gains in northeastern Ukraine as key city retaken
- UN says blackout threatens Zaporizhzhia nuclear plant
- Ukrainian forces enter key city of Iziium in a sign Kyiv's new offensive is working
- Ukraine punches through Russian lines as surprise offensive retakes land in the east
- Ukrainian army says it has tripled retaken area
- Ukraine probing emergency exports of thermal coal to Poland - Kyiv
- Ukraine begins to shut down the Zaporizhzhia nuclear plant as a safety measure.
- Ukraine's Zaporizhzhia nuclear power plant halts operations
- IAEA says both sides 'engaging' with Zaporizhzhia safety zone plan
- Ukraine and Russia interested in Zaporizhzhia protection zone, IAEA chief says
- Ukraine inflicts 'major operational defeat' on Russia as its forces retreat
- We've retaken 6,000 sq km from Russia, says Zelensky
- Ukraine Chides Germany for Inaction as it Routs Russian Forces
- Analysis-Ukraine's Battlefield Gains May Win It More Western Arms
- Ukraine's battlefield wins encourage the West but could make the war more dangerous
- Ukraine President Zelensky has 'no serious injuries' after car accident
- Ukraine Says Arrested Russian Teachers in Regained Areas

- Zelensky 'shocked' by destruction in newly liberated city of Iziium, following months of Russian occupation
- One Dead, Two Injured in Russia's Belgorod Region After Ukrainian Shelling
- Ukrainian army sustains serious losses near Soledar, Artyomovsk - Akhmat unit commander

G. France

- France's Macron hopeful of Iran nuclear deal in next few days
- France, Germany to provide each other with gas, electricity, to weather crisis
- French aluminium smelter to cut output as electricity prices soar
- France preparing disused pipeline to supply more winter gas to Germany
- France Concerned About IAEA Report on Iran, Will Consult With Partners, Foreign Ministry Says
- Macron Asks Putin to Withdraw Weapons from Ukraine Nuclear Plant

H. Germany

- Stress test backs extending lifespan of two German nuclear plants: sources
- German Economy Minister Opposes Nuclear Energy Phaseout, NPPs Closure
- Breaking Taboo, Germany Extends Life of 2 Nuclear Reactors
- Germany keeps two nuclear reactors on standby to weather gas crisis
- Ukraine war forces German parties to cross red lines on energy, defence
- Hurdles for Germany's planned nuclear winter reserve
- Germany examining whether energy levy can apply retroactively
- Ukraine war forces German parties to cross red lines on energy, defence
- Scholz offers German help with Ukraine reconstruction in call with Zelenskiy
- German economy ministry defends nuclear power plant reserve plan
- Germany needs legislative reform to keep nuclear plants on standby - environment ministry
- Nuclear deterrence remains crucial to Europe's security - German defense minister
- Wary of Russia, Germany in talks to buy Arrow 3 missile defence from Israel
- Wary of Russia, Germany in talks to buy Arrow 3 missile defence from Israel
- Germany says regrettable that Iran has yet to accept nuclear offer
- Germany, EU race to fix energy crisis

I. Poland

- Poland eyes buying power from Ukraine Khmelnytskyi plant, PM says
- Poland receives U.S. offer to build nuclear power plants

J. Sweden

- Polls ahead of Sweden's election for parliament
- NATO Membership May Harm Sweden's Exports, Professor Warns

K. Spain

- Spain extends gas price cap amid fears of total Russian gas cut-off
- Spain says power exports to France, Portugal, drive higher gas use

L. Switzerland

- Swiss to create hydropower reserve to ensure winter power supply
- Switzerland says area near Germany to be proposed for nuclear waste site
- Switzerland May Build Radioactive Waste Storage Facility Near German Border
- Swiss confirm favoured location for \$21 billion nuclear waste store

M. United Kingdom

- UK government funding for advanced reactor development
- British army trains with Swedish and Finnish forces
- UK government to cap domestic energy prices, Liz Truss announces
- IAEA 'satisfied' with AUKUS engagement on submarine plan, report says

N. United States of America

- U.S. will never allow Iran to acquire a nuclear weapon, Biden tells Israel's Lapid
- California passes massive climate and clean energy package, halts closure of state's last nuclear plant
- With new China AI chip restrictions, U.S. takes aim at a critical niche
- U.S. compels Iran to again release seized U.S. sail drones, U.S. officials say
- Biden administration approves more than \$1.1B in arms sales to Taiwan
- U.S. factory orders drop in July on defense aircraft
- Pentagon aims to speed arms sales to allies to better compete with China- WSJ
- Civil companies handed functions of customers in US biodefense programs - top brass
- Bombardier CEO sees significant growth of defense jets business
- US military working on analysis to shape and support Ukraine's military in long term
- These companies are looking at using rockets to blast cargo across the planet
- Pentagon halts deliveries of F-35 fighter jets after discovering a component manufactured in China
- US soldier kicked out of Army after FBI says he enlisted to become better at killing Black people
- US Test Launches Minuteman III Missile to Show Nuclear Force Readiness: Air Force
- Biden wants other 'options' to block Iran nuclear weapons capability if deal fails
- U.S. targets firms over Iranian drone production, shipment to Russia
- Pentagon sees 'slow but meaningful' Ukrainian progress on battlefield
- Blinken makes unannounced trip to Ukraine, will pledge \$2.6 billion in security assistance to region
- Blinken flies in to rally Western support for Ukraine war
- US approves \$2.6bn in aid for Ukraine and allies
- Pentagon Quietly Deployed Deadliest Artillery Shell in US's Inventory to Ukraine: Report
- DPRK's New Nuclear Doctrine is 'Cheapest, Fastest' Way to Get Deterrent US Will Take Seriously: Prof
- US Policy Unchanged After DPRK Declares Itself Nuclear Weapons State, White House Says
- Zelenskiy to Appeal Directly to U.S. Defense Companies
- U.S. Army's Pacific commander wants to keep rocket launchers at frontline Japanese base
- S sanctions Iranian spy agency for alleged hacking campaigns against US and allies

- Blinken calls Iran's latest response to nuclear deal proposal a 'step backward'
- Michigan governor calls for nuclear plant to reopen
- US State Dept. Denies Reports Special Envoy to Iran Malley Sidelined on JCPOA Negotiations
- Artificial intelligence is playing a bigger role in cybersecurity, but the bad guys may benefit the most
- California lawmakers vote to extend Diablo Canyon nuclear plant operations as state battles energy emergency
- Defense team unexpectedly rests its case in death penalty trial of Parkland school shooter
- Congressional commission recommends the US Navy rename two ships with names tied to the Confederacy
- About 80% of U.S. coal plant sites suitable to host nuclear reactors -U.S.
- Hurdles ahead for saving Michigan nuclear power plant
- White House unveils \$2 billion biotech spending plan ahead of industry summit
- U.S. to withhold \$130 mln of military aid to Egypt over human rights -official
- U.S. Senate panel advances bill to boost support for Taiwan
- US study assesses potential for coal-to-nuclear conversion
- US to Be Dragged Into Conflict With Russia if Kiev Gets Long Range Missiles - Antonov
- Japan, US to Expand Cooperation on Hypersonic Missile Defense Systems - Defense Ministry
- US Military Encourages Soldiers to Sign Up for Food Stamps as Inflation Runs Rampant
- US Defense Officials Discuss Defense Posture, Technology With ROK Counterparts - Pentagon
- U.S. sues to block \$4.3 bln lock deal between Assa Abloy and U.S. rival
- US sees the aid its given Ukraine as effective, likely won't provide longer-range systems for now

West Asia

O. Iran

- Iran minister terms air defense as self-sufficient, independent
- Iran says sees no limit for expansion of military cooperation with Pakistan
- Washington calls Iran's response "not constructive", without even reading it
- Logic of Iran's response to agreement draft not changed; ball in US court
- Iranian Navy Impounds 2 US Sea Drones in Red Sea
- US confirms its unmanned vessels stopped by Iranian military forces
- American source: Deal with Iran is best option
- Iran's near weapons-grade uranium stock grows, probe stuck -IAEA reports
- Iran's IRGC unveils new combat vessel
- Iran to consider "other options" if West delays nuclear agreement
- Iran to increase nuclear power production
- Other side in talks should put aside excessive demands: Gov't spox
- Iranian scientists produce electronic clothes using conductive nano fabric
- Iran offers completion of gas pipeline project with Pakistan: APP
- Iran Rejects IAEA's Politically-Motivated Report, Says Peaceful N. Program Fully Transparent
- Iran Fully Self-Sufficient in Drone Production
- Iranian Army Ground Force Stages Military Drills
- Iran Overpowers Enemies Using AI

- Iran's Envoy Urges World Leaders to Halt Nuclear Tests
- Iran: Moratoria to stop nuclear tests does not substitute legally binding obligation
- Iranian Army Ground Force Test-Fires Strategic 'Fath 360' Missile
- US blacklists 1 Iranian individual, 4 companies for fear of development in drone industry
- Senior Commander: Iran Stands Among 3 Drone Powers Worldwide
- Newly-Unveiled Military Watercraft Upgrades IRGC Naval Operational Capacity
- Iran to launch Zafar-2 Satellite soon
- Iran to conduct final test of Bavar-373 in coming days
- Iran's Advanced Precision-Striking Drone Special Weapon for Destroying Israel
- Iran says ready for nuclear cooperation but threatens it can hit Israeli cities with drones
- Iran Develops Deadly Drone to Reach Israeli Cities
- Israel warns over Iran uranium capability with nuclear talks at halt
- US seeking to create drone network in ME: Iranian legislator

P. Iraq

- Missile attack in Soran, Erbil
- Drones, a modern weapon detecting sleeper cells

Q. Israel

- Joe Biden to Yair Lapid: We will never tie Israel's hands against Iran
- Israel, US hold joint missile defense drill amid Iranian threat
- Israel buys refuelling tankers that will help it attack Iran's nuclear sites
- IAF grounds fleet of drones after crash at Lebanon sea border
- Israel claims Iran using more than 10 military facilities in Syria for weapons production
- Israel, Germany Confirm Negotiations for Possible Arrow 3 Missile Defense Sale

R. United Arab Emirates

- UAE reportedly looking to buy 120 Turkish Bayraktar TB2 drones

S. Turkey

- Türkiye's 1st indigenous turboprop engine to be launched next year
- Romania wants to buy 18 Turkish Bayraktar TB2 UCAVs for \$300M
- Turkish drone magnate rushes to boost capacity as orders pile up
- Turkish defense giant Aselsan introduces flapping-wing nano UAV
- Turkish tech event Teknofest boasts cutting-edge technology, aircraft, inventions
- Türkiye-built engines for domestic choppers draw foreign customers
- Türkiye's 1st unmanned marine craft to have domestic diesel engine
- Gunmaker Canik's wares pull crowds at Turkish tech event Teknofest
- Poland, Azerbaijan eye award-winning Turkish arms
- Türkiye hosts International Space Convention
- Türkiye signals it may turn to Russia if US blocks F-16 jet sales
- UAE reportedly looking to buy 120 Turkish Bayraktar TB2 drones
- Greece gets 1st pair of upgraded F-16 jets amid tensions with Türkiye
- In a first, Turkish armed unmanned vessel to join NATO drill

East Asia

T. North Korea

- U.N. nuclear watchdog has "serious concern" about North Korea
- US: Russia to buy rockets, artillery shells from North Korea
- DPRK promulgates law on nuclear forces policy
- North Korea declares itself a nuclear weapons state

U. Japan

- Tokyo's militaristic tendency raises regional tensions and alarm as anniversary of the victory in the War of Resistance Against Japanese Aggression approaches
- Nuclear power is key for Japan's energy security and carbon neutrality goals, minister says
- North Korea 'always welcome' at negotiating table: Japan nuclear envoy
- France to send latest nuclear shipment to Japan
- Japan Plans To Restart Seven Nuclear Reactors By Summer 2023
- Speedy Shift to Nuclear Power in Japan Shot Down by Watchdog

V. South Korea

- China, Russia hold key to eliminating North Korea's nuclear advances: South Korea
- South Korea official: no soft response in case of North Korea nuclear test
- Japan, U.S. and South Korea to take steps in case of North Korea nuclear test

A. India

Prime Minister Shri Narendra Modi commissions India's first indigenous aircraft carrier INS Vikrant in Kochi

PIB, September 2, 2022

Showcasing the country's growing prowess of indigenous manufacturing and a major milestone in the path towards 'Aatmanirbhar Bharat', Prime Minister Shri Narendra Modi commissioned the country's first indigenous aircraft carrier Indian Naval Ship (INS) Vikrant at Cochin Shipyard Limited (CSL) on September 02, 2022. During the event, the Prime Minister also unveiled the new Naval Ensign (Nishaan), doing away with the colonial past and befitting the rich Indian maritime heritage. He dedicated the new ensign to Chhatrapati Shivaji.

<https://pib.gov.in/PressReleasePage.aspx?PRID=1856230>

DRDO's conventional ballistic missile design ready, awaits signal for development

Hindustan Times, September 2, 2022

With Chinese land-based conventional ballistic missile arsenal rapidly expanding, the Defence Research and Development Organization (DRDO) has finalized the design for a 1,500-kilometer range conventionally armed ballistic missile with an anti-ship variant. While the DRDO is awaiting a green signal from the Narendra Modi government to move to the development stage, the still unnamed conventionally armed missile will deter any ship-based threat in the Indian Ocean, Bay of Bengal, and Arabian Sea. It will also counter any land-based threat from across the Line of Actual Control (LAC) in Xinjiang, Tibet, and Yunnan provinces. While India has an arsenal of nuclear cruise and ballistic missiles up to 5000 km range from land and up to 3500 km range from sea-based deterrent, it does not have any conventional ballistic missile to tackle the adversary on land and on high seas. The missile will not only deter any carrier-based strike group

from threatening India from the Indian Ocean but also provide land-based protection to its own aircraft carriers in the Bay of Bengal and the Arabian Sea through coastal deployment.

<https://www.hindustantimes.com/india-news/drdo-conventional-ballistic-missile-design-ready-awaits-signal-for-development-101662087565883.html>

Highest-ever funding for Indian space-tech startup! Telangana-based Skyroot raises \$51 million

Business Today, September 2, 2022

In a major milestone for the country's fledgling commercial space startup sector, Kondapur-based commercial Skyroot Aerospace has successfully raised \$51 million or Rs 403 crore through a Series-B financing round. Led by the Singapore-headquartered long-term investment firm GIC, this makes it the largest funding round ever in India's space technology sector by far. This investment will help Skyroot boost its launch vehicle capabilities to tap into the fast-expanding global space economy that was cumulatively worth \$469 billion in 2021. Moreover, the global space launch services market is projected to grow from \$14.21 billion in 2022 to \$31.90 billion by 2029, at a CAGR of 12.25 per cent, according to a recent estimate. Founded in 2018 by former ISRO engineers Pawan Kumar Chandana and Naga Bharat Daka, the company plans to cater to the burgeoning demand from the international small satellite market.

<https://www.businesstoday.in/latest/corporate/story/highest-ever-funding-for-indian-space-tech-startup-telangana-based-skyroot-raises-51-million-346273-2022-09-02>

After INS Vikrant, Indian Navy Eyes 3rd Aircraft Carrier to Battle China; What Is Holding Back Modi Government?

Eurasian Times, September 2, 2022

With India's first indigenous aircraft carrier INS Vikrant getting commissioned

by PM Narendra Modi in a splendid ceremony at Cochin Shipyard, speculations are rife about whether New Delhi would approve the third aircraft carrier, INS Vishal (translating to Huge or Massive). INS Vishal is supposed to supplement INS Vikramaditya (ex-Admiral Gorshkov), the 46,000-tonne refurbished Russian Kiev-class vessel, and INS Vikrant, the 40,262-tonne vessel. Both Vikramaditya and Vikrant are “ski-jump” carriers. Therefore, the Indian Navy regards a third “flat-topped” aircraft carrier, the planned 65,000-tonne, with superior power projection capabilities, as a necessity. Besides, if former Navy Chief, Admiral Robin Dhowan, is to be believed, unlike Vikramaditya and Vikrant, that run by conventional fuels, Vishal could opt for nuclear propulsion (subsequent reports suggest that the Navy scaled down this plan to bring down the overall cost).

<https://eurasianetimes.com/after-ins-vikrant-indian-navy-eyes-3rd-aircraft-carrier-to-battle-china-what-is-holding-back-modi-government/>

Jaishankar, Amirabdollahian discuss bilateral ties, Iran nuclear deal

Hindustan Times, September 5, 2022

Bilateral cooperation under mechanisms such as the Joint Economic Commission and Tehran’s negotiations on reviving the Iranian nuclear deal figured in a phone call between external affairs minister S Jaishankar and his Iranian counterpart Hossein Amirabdollahian. “Discussed our bilateral cooperation and JCPOA. Look forward to remaining in touch,” Jaishankar tweeted after the conversation on Sunday without giving details. A readout from the Iranian foreign ministry said the two leaders held talks on bilateral ties and issues of mutual interest at the regional and international levels. These issues included the next meeting of the Joint Economic Commission and Iran’s negotiations on reviving the Joint Comprehensive Plan of Action (JCPOA) or the nuclear deal that was dumped by the Donald Trump administration.

<https://www.hindustantimes.com/india-news/jaishankar-amirabdollahian-discuss-bilateral-ties-iran-nuclear-deal-101662374070322.html>

ISRO could see India capture 8% of global space economy

The Hindu, September 5, 2022

India’s space sector accounts for 2% of the global space economy, but can aim to touch 8% on the back of hard work by the private sector with hand holding from space agency ISRO, a top official has said. The new space policy, which is expected to be unveiled soon, will remove most of the constraints faced by private players.

<https://www.thehindu.com/sci-tech/technology/isro-india-capture-8-global-space-economy/article65852749.ece>

Spent nuclear fuel storage should be ‘worked out’: SC

The Hindu, September 8, 2022

The Supreme Court has said the problem of storing spent nuclear fuel from the Kudankulam nuclear power plant has to be “worked out”, possibly with the help of experts from the Atomic Energy Regulatory Board (AERB) and officials at the highest level in the Tamil Nadu government, while prima facie disagreeing with the petitioners’ idea of shutting down the nuclear plant through a judicial order as an “extraordinary measure”.

<https://www.thehindu.com/news/national/spent-nuclear-fuel-storage-should-be-worked-out-sc/article65866983.ece>

India’s space agency wants to design and build reusable rockets for the world

Business Insider, September 6, 2022

Indian Space Research Organisation (ISRO), the country’s space agency, has said that it wants to design and build a reusable rocket. This was announced by the agency’s chairman S Somanath during the Bengaluru Space Expo 2022. The reusable rocket aims to cut costs and will reportedly target the global market. This will help ISRO reduce the cost of launching satellites. “All of us want launches to be much cheaper than what we do today,”

said S Somanath, chairman of ISRO, during the space expo.

<https://www.businessinsider.in/science/space/news/indias-space-agency-wants-to-design-and-build-reusable-rockets-for-the-world/articleshow/94021368.cms>

Raksha Mantri & his Japanese counterpart review defence cooperation & regional security situation during bilateral talks in Tokyo

PIB, September 8, 2022

Raksha Mantri Shri Rajnath Singh held bilateral talks with Minister of Defense of Japan Mr Yasukazu Hamada in Tokyo on September 08, 2022. The two Ministers reviewed various aspects of bilateral defence cooperation as well as regional affairs. They acknowledged the importance of India-Japan defence partnership and the critical role it will play in ensuring free, open and rules-based Indo-Pacific region. During the delegation-level talks, Shri Rajnath Singh highlighted that the growing complexities in the India-Japan bilateral defence exercises is a testimony to the deepening of defence cooperation between the two countries. They welcomed the operationalisation of the Reciprocal Provision of Supply and Services Agreement during Exercise 'MILAN' in March this year. The two Ministers agreed that the early conduct of the inaugural fighter exercise will pave way for much greater cooperation and interoperability between the Air Forces of the two countries.

<https://pib.gov.in/PressReleasePage.aspx?PRID=1857706>

India calls for 'mutual restraint' around embattled Ukrainian nuclear plant

Business Standard, September 7, 2022

Amid widespread warnings of a potential "catastrophe" at Europe's largest nuclear power plant trapped in the middle of the Ukraine war, India has called on both Moscow and Kiev to show "mutual restraint". "With a view to not endangering the safety and security of nuclear facilities

and personnel working there, we reiterate our call for strict mutual restraint," India's Permanent Representative Ruchira Kamboj said on Tuesday at a Security Council meeting on the dangers to the Zaporizhzhia plant. "India attaches high importance to ensuring the safety and security of nuclear facilities in Ukraine, as any accident involving nuclear facilities could potentially have severe consequences for public health and the environment".

https://www.business-standard.com/article/current-affairs/india-calls-for-mutual-restraint-around-embattled-ukrainian-nuclear-plant-122090700242_1.html

India-Japan to discuss Indo-Pacific, joint production of military platform and outer space

Financial Express, September 7, 2022

India and Japan are getting ready for the second 2+2 Ministerial Dialogue starting Thursday (September 8). Defence Minister Rajnath Singh and external affairs minister Dr S Jaishankar will meet their counterparts – minister of defence Yasukazu Hamada and minister of foreign affairs Yoshimasa Hayashi to review the bilateral cooperation between the sides. Both countries are pursuing a special strategic and global partnership which is based on respect for rule of law, freedom and shared values of democracy. The two ministers will hold the Defence Ministerial Meeting and Foreign Ministers' Strategic Dialogue with their counterparts.

<https://www.financialexpress.com/defence/india-japan-to-discuss-indo-pacific-joint-production-of-military-platform-and-outer-space/2658828/>

India-Russia civil nuclear co-op gets boost at Kudankulam Nuclear power plant

Economic Times, September 8, 2022

India-Russia civil nuclear cooperation got fresh boost with Atommash, AEM-Technologies, JSC Branch in Volgodonsk (part of Rosatom Machine Building Division - Atomenergomash) has

completed welding of the steam generator heads for Kudankulam Nuclear Power Plant Unit No. 5. Preliminary, support components and 11,000 heat-exchange coils were completed inside the steam generator, according to an official statement. Automatic welding of the heads is performed with heating at a temperature of 120 to 250 degrees during seven days. The welding of the two welds required 660 kg of wire and 935 kg of flux, statement added.

<https://economictimes.indiatimes.com/news/india/india-russia-civil-nuclear-co-op-gets-boost-at-kudankulam-nuclear-power-plant/articleshow/94064755.cms>

DRDO & Indian Army successfully conduct six flight-tests of Quick Reaction Surface to Air Missile system off Odisha coast

PIB, September 8, 2022

Defence Research and Development Organisation (DRDO) and Indian Army have successfully completed six flight-tests of Quick Reaction Surface to Air Missile (QRSAM) system from Integrated Test Range (ITR) Chandipur off the Odisha coast. The flight tests were conducted as part of evaluation trials by the Indian Army. The flight-tests were carried out against high-speed aerial targets mimicking various types of threats to evaluate the capability of the weapon systems under different scenarios, including long range medium altitude, short range, high altitude manoeuvring target, low radar signature with receding & crossing target and salvo launch with two missiles fired in quick succession. The system performance was also evaluated under day and night operation scenarios.

<https://pib.gov.in/PressReleasePage.aspx?PRID=1857724>

Space news weekly recap: China's plans for lunar minerals, Indian reusable rocket and more

The Indian Express, September 11, 2022

While NASA began its work to replace the faulty hydrogen seal on the Artemis 1 mission's Space Launch System (SLS)

rocket, ISRO announced that it will be working on designing and building a reusable launch vehicle for the global market. Read about all the interesting space news that happened over the last week in our weekly space news recap.

<https://indianexpress.com/article/technology/science/space-news-weekly-recap-einstein-ring-tarantula-nebula-and-the-moon-8144116/>

Launch of YD 12653 (Taragiri)

PIB, September 12, 2022

The fifth Stealth Frigate of P17A, being built at MDL was launched today by Smt. Charu Singh, President NWWA (Western Region) who named the ship 'Taragiri'. In compliance with the notification issued by the Ministry of Home Affairs, Government of India declaring a state-mourning on 11 Sep 2022. The event was limited to a Technical Launch as the event is tide dependent, any change in the schedule was not possible. Vice Admiral Ajendra Bahadur Singh, Flag Officer Commanding-in-Chief, Western Naval Command was the Chief Guest, VAdm Kiran Deshmukh Controller Warship Production and Acquisition other senior officers from the Indian Navy and MoD were amongst the dignitaries who witnessed the launch ceremony.

<https://pib.gov.in/PressReleasePage.aspx?PRID=1858575>

Russia's Rosatom Keen On Opportunities In Renewables, Carbon Fibre, Other Areas In India

Outlook, September 13, 2022

Russia's Rosatom group is looking at various opportunities, including in the renewables and carbon fibre segments, in the "very promising" Indian market, according to a senior company official.

Besides, the group is keen on exploring possibilities in the areas of nuclear medicine, radiation technologies and energy storage. Rosatom, a global player in the nuclear technology market, is developing the Kudankulam Nuclear Power Plant (NPP) in Tamil Nadu. The

plant will have a total of six reactors, each with an installed capacity of 1,000 MW, and two of the units are already operational. Now, the group is also considering opportunities in other areas in India, including renewables and carbon fibre.

<https://www.outlookindia.com/business/russia-s-rosatom-keen-on-opportunities-in-renewables-carbon-fibre-other-areas-in-india-news-223051>

France to work with India on nuclear power plant project - minister

Reuters, September 14, 2022

France will continue to work with India on the Jaitapur nuclear power plant project in the state of Maharashtra, Foreign Minister Catherine Colonna said on Wednesday. "We have a special partnership between India and France," Catherine Colonna said in New Delhi.

<https://www.reuters.com/world/india/france-work-with-india-nuclear-power-plant-project-minister-2022-09-14/>

Gaganyaan: First test flight of India's first manned space mission this year

Financial Express, September 14, 2022

The first test flight of the Gaganyaan mission is scheduled to take place later this year, said Union Minister Jitendra Singh on Tuesday. On the sidelines of an event, while speaking to reporters, the minister said the government had planned human space flight for 2022, the year of India's 75th anniversary of Independence. However, due to the COVID-19 pandemic, the schedule went awry. The pandemic took a toll on the training of astronauts in Russia as well as India, Singh said. Next year, in outer space, the first test flight will be followed by sending a female-looking spacefaring humanoid robot, Vyom Mitra, the minister informed.

<https://www.financialexpress.com/lifestyle/science/gaganyaan-first-test-flight-of-indias-first-manned-space-mission-this-year/2666162/>

Indian Coast Guard & ATS, Gujarat apprehend a Pak boat carrying Rs 200 crore worth of drugs from Indian waters

PIB, September 14, 2022

The Indian Coast Guard (ICG) and ATS, Gujarat have jointly apprehended a Pakistani boat with six crew, carrying approximately 40 kilograms of drugs worth Rs 200 crore, from Indian waters. On the intervening night of September 13-14, 2022, the ICG, on the basis of intelligence inputs by ATS Gujarat, strategically deployed two fast interceptor class of ships - C-408 and C-454 - for patrolling in the area close to notional International Maritime Border Line (IMBL). A Pakistani boat was spotted moving suspiciously in Indian waters, five nautical miles inside notional IMBL and 40 nautical miles from Jakhau. On being challenged, the Pakistani boat overboarded a consignment and started evasive manoeuvring. Braving rough seas, the ICG ships intercepted the boat and apprehended it.

<https://pib.gov.in/PressReleasePage.aspx?PRID=1859170>

India upset at US F-16 support to Pak as reward for ammo supply to Ukraine

Hindustan Times, September 14, 2022

Although the United States is a QUAD partner and a close ally, India has not taken the Biden administration's decision to provide USD 450 million F-16 fighter support to Pakistan lying down and expressed its displeasure through diplomatic channels to Washington. While the US has provided support in the name of counter-terrorism and as per lifetime F-16 fighter support contract with Pakistan, the real reasons lie within the Rawalpindi Headquarters and with Army Chief Gen Qamar Jawed Bajwa. Washington, on its part, has let India know that the multi-

million support will not impact India or alter the military balance in the Indian sub-continent. However, the Modi government is not amused with this development and has let the Biden administration know about its views on the entire issue as the fighters will be used against India like they were on February 27, 2019 as a retaliation to India's Balakot strike on Jaish-e-Mohammed terrorist camp a day earlier.

<https://www.hindustantimes.com/world-news/india-upset-at-us-f-16-support-to-pak-as-reward-for-ammo-supply-to-ukraine-101663125081392.html>

Russia says it delivered S-400 missile system to India on time despite pressure from US

Economic Times, September 15, 2022

Russia on Wednesday said it has delivered its most advanced long-range surface-to-air missile defence system S-400 to India on time despite pressure from Washington and the US-led West's sanctions, asserting that Moscow and New Delhi are firmly committed to their national interests.

Russian Ambassador to India Denis Alipov made the remarks ahead of a meeting between President Vladimir Putin and Prime Minister Narendra Modi on the sidelines of the SCO Summit in Uzbekistan this week where the two leaders are expected to discuss issues of strategic stability, the situation in the Asia Pacific region and bilateral cooperation within the UN and G20. "Despite American pressure, India intends to unwaveringly stick to its national interests, especially when it comes to issues of building up the country's defensive capabilities. Therefore, we assume that the intergovernmental agreements, in particular regarding the supply of the S-400 systems here, will be implemented," he said.

<https://economictimes.indiatimes.com/news/defence/russia-says-it-delivered-s-400-missile-system-to-india-on-time-despite-pressure-from-us/articleshow/94207460.cms>

Robots and humans are gearing up to explore space with ISRO's Gaganyaan

Business Standard, September 15, 2022

After a lot of back and forth about the launch dates and trial, the mission has finally seen the light of the day. Now, the 'Gaganyaan' is likely to be launched in 2024 and the development is confirmed by Union Minister of State (Independent Charge) for Science and Technology, Jitendra Singh. According to ISRO, the Gaganyaan programme will lay the foundation for a sustained Indian human space exploration programme in the long run. Also, the objective of this mission is to demonstrate the indigenous capability to undertake human space flight. Other than these, Gaganyaan will have both tangible and intangible benefits for India, including a step toward an affordable and sustained human and robotic programme to explore space and beyond. The mission will also generate ample scope for employment opportunities in advanced science and R&D activities. The mission will also carry out scientific research and experiments in the interest of the nation.

<https://www.businessinsider.in/science/space/news/robots-and-humans-are-gearing-up-to-explore-space-with-isros-gaganyaan/articleshow/94216760.cms>

B. Russia

Russia's Defence Ministry says situation at Zaporizhzhia nuclear plant difficult but under control

REUTERS, September 1, 2022

Russia's Defence Ministry said on Thursday that the situation around the Zaporizhzhia nuclear plant in Ukraine is "difficult but remains under full control", after reports of fighting in the nearby town of Enerhodar.

<https://www.reuters.com/world/europe/russias-defence-ministry-says-situation-zaporizhzhia-nuclear-plant-difficult-2022-09-01/>

Ukraine Says Russia Bombed City Housing Nuclear Plant

KYIV Post, September 01, 2022

Ukraine on Thursday accused Russia of attacking a city housing Europe's largest nuclear plant ahead of a visit by UN inspectors. Since dawn, Moscow's troops "shelled Energodar with mortars and used automatic weapons and rockets," Mayor Dmytro Orlov said on Telegram, publishing photos of damaged buildings in the Russian-occupied territory with smoke spiralling above them. "We demand that Russia stops its provocations and gives the IAEA access to this Ukrainian nuclear installation," Orlov said, referring to the UN nuclear watchdog.

<https://www.kyivpost.com/russias-war/ukraine-says-russia-bombed-city-housing-nuclear-plant.html>

Russian Defence Ministry says Ukraine tried to capture Zaporizhzhia nuclear plant

REUTERS, September 1, 2022

Russia's Defence Ministry said on Thursday that Ukrainian forces had attempted to seize the Russian-controlled Zaporizhzhia nuclear plant in southern Ukraine. In a statement, the ministry said that up to 60 Ukrainian troops had crossed the Dnipro river, which divides territory held by the two sides, in boats at 6:00 a.m. local time. It called the operation a "provocation" aimed at disrupting a planned visit by International Atomic Energy Agency inspectors to the nuclear plant.

<https://www.reuters.com/world/europe/russian-defence-ministry-says-ukraine-tried-capture-zaporizhzhia-nuclear-plant-2022-09-01/>

Russia's military suffering manpower shortages -U.S. intelligence

REUTERS, September 01, 2022

The Russian military is suffering manpower shortages as it battles Ukraine and is seeking

to recruit contract service members and may even draw in convicted criminals, a U.S. official said on Wednesday, citing U.S. intelligence. Russian President Vladimir Putin signed a decree last Thursday to increase the size of Russia's armed forces from 1.9 million to 2.04 million as the war in Ukraine enters its seventh month.

<https://www.reuters.com/world/europe/russias-military-suffering-manpower-shortages-us-intelligence-2022-08-31/>

Threat of Russian missiles cause sirens to sound at Ukrainian power plant

CNN, September 01, 2022

Ukraine's second largest nuclear power station, the South Ukraine Nuclear Power Plant, is under threat from Russian missiles as warnings of a nuclear disaster are already causing horror at its largest plant in Zaporizhzhia. CNN's Sam Kiley gets an exclusive look at the plant.

<https://edition.cnn.com/videos/world/2022/08/31/ukraine-inside-nuclear-power-station-russia-kiley-dnt-tsr-vpx.cnn>

Russian air defenses down eight combat drones in Ukraine operation, top brass reports

TASS, September 01, 2022

Russian air defense forces shot down eight Ukrainian unmanned aerial vehicles and intercepted a Tochka-U ballistic missile and over 40 HIMARS and other rockets in the past day in their special military operation in Ukraine, Defense Ministry Spokesman Lieutenant-General Igor Konashenkov reported on Thursday. "In the past 24 hours, the Russian air defense capabilities shot down eight unmanned aerial vehicles near the settlements of Yakovenkovo, Volchii Yar, Shpakovka, Kislovka, Glinskoye and Kapitolovka in the Kharkov Region, Petrovka and Lyubimovka in the Kherson Region," the spokesman said.

<https://tass.com/defense/1501119>

Foreign military contingents join Russia's Vostok 2022 strategic drills in Far East

TASS, September 01, 2022

During the drills, the coalition troops will practice defensive and offensive operations in repelling a notional enemy's aggression in the eastern area for the purposes of maintaining peace in the Eastern region. Units of the coalition force arrived at the designated areas in the Vostok 2022 strategic command and staff drills that kicked off in Russia's Far East on September 1, the Defense Ministry reported on Thursday.

<https://tass.com/defense/1501197>

Russia tests upgraded Ka-52M attack helicopter in Ukraine operation

TASS, September 02, 2022

As the gunship's designers say, the Ka-52M missile armament has been standardized with the weapons suite of the Mi-28NM helicopter. Russia's troops have successfully tested the upgraded Ka-52M reconnaissance/attack helicopter in their special military operation in Ukraine, a source in the domestic defense industry told TASS on Friday.

<https://tass.com/politics/1501421>

Defense chief reveals over \$8.7 bln in deals inked at Army 2022 forum

TASS, September 02, 2022

Russia's Defense Minister Sergey Shoigu revealed on Friday that at the Army-2022 forum contracts to the tune of 525 bln rubles (\$8.7 bln) were inked. "[The Defense Ministry] concluded 36 state contracts with enterprises in the military-industrial sector to the tune of more than 525 billion rubles," he said. Shoigu disclosed this fact, when summing up the results of the Army-2022 international military-technical forum during a conference call at the Defense Ministry.

<https://tass.com/defense/1501545>

Defense ministers from 35 countries took part in Moscow conference on security

TASS, September 02, 2022

Defense ministers from 35 countries as well as representatives from six international organizations took part in the 10th Moscow Conference on International Security, Russia's Deputy Defense Minister Alexander Fomin said during a conference call on Friday. "The conference was attended by defense ministers from 35 countries in Asia, Africa, the Middle East and Latin America. Two of them have the rank of a deputy prime minister. Sixteen countries were represented by deputy defense ministers and chiefs of general staffs and ten by the commanders of arms and services. The forum attracted 67 independent military experts from 31 countries, as well as representatives from six international organizations: the UN, the CIS, the CSTO, the SCO, the League of Arab States and the International Committee of the Red Cross," Fomin said.

<https://tass.com/defense/1501599>

Russian Pacific Fleet ships conduct missile firings in Vostok 2022 strategic drills

TASS, September 02, 2022

The Pacific Fleet's naval groups hit all the targets during missile and artillery firings in the Vostok 2022 strategic command and staff drills, Russia's Defense Ministry reported on Friday. "The Pacific Fleet's naval groups successfully accomplished missile and artillery firings against aerial targets during a tactical air defense exercise in the Vostok 2022 strategic command and staff drills," the ministry said in a statement.

<https://tass.com/defense/1501775>

Russia's Shoigu: Ukraine committing 'nuclear terrorism' at Zaporizhzhia

REUTERS, September 02, 2022

Russian Defence Minister Sergei Shoigu said on Friday Ukraine's shelling of the Zaporizhzhia nuclear power plant was raising the risk of a nuclear catastrophe in Europe. Shoigu accused Ukraine of "nuclear terrorism" and rejected assertions by Kyiv and the West that Russia had deployed heavy weapons at Europe's biggest nuclear power plant, located in southern Ukraine and under Russian control since March.

<https://www.reuters.com/world/russias-shoigu-ukraine-committing-nuclear-terrorism-zaporizhzhia-2022-09-02/>

Russia should not take peaceful nature of US bioresearch on trust – Defense Ministry

TASS, September 03, 2022

Russia cannot believe US assurances about the peaceful nature of the Pentagon's biological research, Igor Kirillov, chief of the Radiation, Chemical and Biological Defense Forces of the Russian Armed Forces, said on Saturday. "After the collective West's broken promises on NATO's eastward expansion, we cannot take the US at its word about the peaceful nature of the biological research conducted by the Pentagon," Kirillov said.

<https://tass.com/defense/1502157>

Russia says it foiled Ukrainian attempt to seize nuclear plant

REUTERS, September 03, 2022

Ukrainian forces attempted to capture the Zaporizhzhia nuclear power plant in an attack on the facility on Friday night, Russia's defence ministry said in its daily briefing on Saturday. The ministry said a Ukrainian naval force of more than 250 troops attempted to land on the coast of a lake near the Zaporizhzhia plant in southern Ukraine at around 11 p.m. local time (2000 GMT) on Friday. "Despite the presence of representatives of the International Atomic

Energy Agency (IAEA) at the Zaporizhzhia nuclear power plant, the Kyiv regime once again attempted to seize the plant," the defence ministry said.

<https://www.reuters.com/world/europe/russia-says-it-foiled-ukrainian-attempt-seize-nuclear-plant-2022-09-03/>

Russia, Ethiopia to Discuss Military-Technical, Space Cooperation in October - Ambassador

SPUTNIK International, September 03, 2022

Russian-Ethiopian projects in the field of space and the use of peaceful nuclear energy are developing according to plan, and the two countries are also expected to discuss military-technical cooperation at a meeting of an intergovernmental commission next month, Ethiopian Ambassador to Russia Alemayehu Tegenu Aargau told Sputnik. "Yes, all these projects [with Russia's Rosatom, Roscosmos] are developing according to plan. An intergovernmental commission will be held in October, where we will discuss all the current projects," the ambassador said.

<https://sputniknews.com/20220903/russia-ethiopia-to-discuss-military-technical-space-cooperation-in-october-ambassador-1100329682.html>

Russia-initiated meeting of parties to Biological Weapons Convention to be held next week

TASS, September 04, 2022

A meeting of the signatories to the Biological and Toxin Weapons Convention will be held next week following Russia's initiative, and there Moscow will show proofs of violations by the United States and Ukraine, Lieutenant General Igor Kirillov, chief of the Radiation, Chemical and Biological Defense Forces of the Russian Armed Forces, said on Saturday. "At the initiative of the Russian Federation, a meeting of the States Parties to the

Biological and Toxin Weapons Convention will take place next week to look into non-compliance by the United States and Ukraine with their obligations under the said international treaty," Kirillov said.

<https://tass.com/defense/1502191>

Ukraine war: Russia wants to destroy Europeans' normal life, Zelensky warns

BBC, September 04, 2022

Russia wants to destroy the normal life of every European citizen, Ukrainian President Volodymyr Zelensky has said. "It is trying to attack with poverty and political chaos where it cannot yet attack with missiles," Mr Zelensky said in his regular address on Saturday. He was speaking hours after Russia said that its main gas pipeline to Europe would not reopen as planned. Europe accused Russia of using its gas supplies to blackmail Europe amid the Ukraine conflict, which Moscow denies. Energy prices have soared since Russia invaded Ukraine on 24 February and scarce supplies could push up costs even further.

<https://www.bbc.com/news/world-europe-62786447>

Nuclear plant loses power line as Moscow, West energy row escalates

REUTERS, September 04, 2022

A critical nuclear power plant in Ukraine again lost external power, international energy officials said on Saturday, heightening concerns as the energy battle between Moscow and the West ramped up in recent days amid the ongoing war.

<https://www.reuters.com/world/europe/russia-west-step-up-energy-war-risk-nuclear-disaster-haunts-ukraine-2022-09-03/>

Russian Tank Losses in Ukraine Hit 1,000 – Open Source Analysis

The Moscow Times, September 06, 2022

Russian tank losses in Ukraine have passed 1,000, according to the Oryx intelligence blog

that tracks equipment losses in the fighting, highlighting the attrition suffered by Russian forces in more than six months of war. Over half of Russia's tank losses recorded by Oryx, which verifies destroyed, captured or abandoned tanks using open source information, occurred in the first 50 days of the war as Russian forces attempted to seize the Ukrainian capital. "Losses have fluctuated throughout the conflict," said Jakub Janovsky, a contributor to Oryx's tally, which is based on open source information.

<https://www.themoscowtimes.com/2022/09/06/russian-tank-losses-in-ukraine-hit-1000-open-source-analysis-a78727>

Russian troops perform multiple launch of Iskander-M missiles at Vostok 2022 drills

TASS, September 06, 2022

The military destroyed a command post of a notional enemy using a multiple launch of Iskander-M tactical missile systems during the final stage of the Vostok 2022 (East 2022) strategic command and staff exercise at the Sergeevsky training ground in the Primorsky Region, the Russian Defense Ministry said on Tuesday.

<https://tass.com/defense/1503265>

Russia, Turkey have no problems regarding shipment of S-400 air defense systems – senator

TASS, September 06, 2022

Russia and Turkey have no problems regarding the shipment of Russian-made S-400 missile air defense systems to the republic, says senator Andrey Klimov, member of the United Russia party Supreme council and deputy chairman of the party's General council on international cooperation.

<https://tass.com/defense/1503451>

Russia is buying North Korean rockets and artillery to use in Ukraine

CNBC, September 06, 2022

Russia is in the process of buying millions of rockets and artillery shells from North Korea to use in Ukraine, a senior U.S. defense official said, an indication that Western sanctions are severely hampering Moscow's military supply effort. Russia is seeking help from Kim Jong Un's regime at a time when it is also leaning on Iran for military supplies. U.S. officials disclosed late last month that Russia received shipments of Iranian-produced drones.

<https://www.cnn.com/2022/09/07/russia-is-buying-north-korean-rockets-and-artillery-to-use-in-ukraine.html?&qsearchterm=nuclear>

Russia is purchasing millions of rockets and artillery shells from North Korea, US official says

CNN, September 06, 2022

Russia is in the process of purchasing millions of rockets and artillery shells from North Korea for use on the battlefield in Ukraine, a US official tells CNN. The purchase indicates that the Russian military continues to suffer from severe supply shortages in Ukraine, due in part to export controls and sanctions, according to the official. The US expects Russia could try to buy more military equipment from North Korea going forward, the official added.

<https://edition.cnn.com/2022/09/06/politics/russia-rockets-purchase-north-korea-ukraine/index.html>

All goals of Vostok-2022 exercise achieved – deputy defense minister

TASS, September 07, 2022

All goals of the Vostok-2022 strategic command and staff exercises have been achieved, Russia's Deputy Defense Minister Yunus-Bek Yevkurov said at the closing ceremony at the Sergeyevsky training ground in the Primorsky Region on

Wednesday. "We have a clear understanding of what we need to do today and what to strive for tomorrow in order to ensure the military security of our countries. I believe that the goals of the exercise have been achieved," Yevkurov said, according to the Defense Ministry's news release.

<https://tass.com/defense/1504475>

Russian forces wipe out Ukrainian ammo depot in Kharkov Region – top brass

TASS, September 08, 2022

Russia's Armed Forces wiped out five depots with missiles and ammunition in the Zaporozhye Region, DPR and in the vicinity of Balakleya in the Kharkov Region, Russian Defense Ministry Spokesman Igor Konashenkov said on Thursday. "Tactical and army aviation, missile troops and artillery continue to deliver strikes on military targets on Ukrainian territory. <...> Five missile/artillery arms and ammunition depots have been eliminated in the vicinity of the populated localities of Trudovoye in the Zaporozhye Region, Kurakhovo, Konstantinovka, Seversk in the Donetsk People's Republic and Balakleya in the Kharkov Region," he said.

<https://tass.com/defense/1504881>

Chechnya head says Ukrainian forces suffer heavy losses in attacks near Soledar, Seversk

TASS, September 08, 2022

Chechnya head Ramzan Kadyrov on Thursday said that Ukrainian forces had suffered heavy losses as they carried out 'suicidal' counteroffensives near Soledar and Seversk. "Our fighters, together with the allied forces, continue the offensive along the Soledar, Yakovlevka and Seversk line. A great deal of enemy manpower and equipment was destroyed," he said on Telegram.

<https://tass.com/defense/1504967>

Fighting rages in areas near Russian-held nuclear plant in Ukraine

REUTERS, September 08, 2022

Heavy fighting has been raging into Thursday in areas near the Russian-occupied Zaporizhzhia nuclear power station in Ukraine after Kyiv warned that it might have to shut down the plant to avoid disaster. The General Staff of Ukraine's Armed Forces said in its daily morning update that some villages and communities near the plant were heavily shelled in the 24 hours to Thursday morning from "tanks, mortars, barrel and jet artillery".

<https://www.reuters.com/world/europe/fighting-rages-areas-near-russian-held-nuclear-plant-ukraine-2022-09-08/>

Russians Killed Two Zaporizhzhia Nuclear Staff, Abused Others - Ukraine

The Moscow Times, September 09, 2022

Russian forces controlling Ukraine's Zaporizhzhia nuclear power plant have killed two staff at the facility and detained and abused dozens of others, the head of Ukraine's nuclear energy agency told AFP on Friday. The Zaporizhzhia plant the largest in Europe was captured by Russian troops in March. An uptick in fighting around it in recent weeks has raised fears of a nuclear disaster with both Moscow and Kyiv blaming the other for the escalation. "A regime of harassment of personnel was gradually established," following the Russian takeover, Petro Kotin said.

<https://www.themoscowtimes.com/2022/09/09/russians-killed-two-zaporizhzhia-nuclear-staff-abused-others-ukraine-a78756>

Russia backs IAEA call for shelling near Zaporizhzhia to stop, envoy says

REUTERS, September 09, 2022

Russia backs a call by U.N. atomic watchdog chief Rafael Grossi for an

immediate stop to shelling at the Zaporizhzhia nuclear power plant (ZNPP) and the nearby city of Enerhodar, its envoy to the International Atomic Energy Agency said on Friday. "We fully support the appeal and demand of the #IAEA Director General that shelling of the town of Enerhodar and the #ZNPP must stop immediately," Russian ambassador to the IAEA Mikhail Ulyanov said on Twitter.

<https://www.reuters.com/world/europe/russia-backs-iaea-call-shelling-near-zaporizhzhia-stop-envoy-says-2022-09-09/>

Russian aerospace forces destroy terrorist base in Idlib

TASS, September 09, 2022

Russia's Aerospace Forces have destroyed a base of the Jabhat Al-Nusra terrorist group (outlawed in Russia) in the Idlib governorate on Thursday, killing over 120 militants, a Russian military official said. "Today, the Russian Aerospace Forces destroyed a camp of Jabhat al-Nusra terrorists near Sheikh Yusuf. As a result of the airstrike, over 120 militants were killed, four drone command centers were disabled," deputy chief of the Russian Center for Reconciliation of the Opposing Parties in Syria Oleg Yegorov said.

<https://tass.com/defense/1505049>

Katibat al Tawhid wal Jihad terrorist group's leader killed by Russian forces in Syria

TASS, September 10, 2022

Leader of the Katibat al Tawhid wal Jihad terrorist group (outlawed in Russia) Sirajuddin Mukhtarov was killed in Syria as a result of an airstrike delivered by the Russian aerospace forces, Oleg Yegorov, deputy chief of the Russian Center for Reconciliation of the Opposing Parties in Syria (division of the Russian defense ministry), said on Friday.

<https://tass.com/defense/1505653>

Forces regrouped at Balakleya, Izyum, redeployed to DPR, says Russian Defense Ministry

TASS, September 10, 2022

The Russian troops stationed at Balakleya and Izyum have been regrouped and redeployed to the Donetsk direction in order to step up efforts there, Russian Defense Ministry Spokesman Igor Konashenkov told reporters on Saturday. "In order to achieve the declared goals of the special military operation for the liberation of Donbass, it was decided to regroup the Russian forces stationed near Balakleya and Izyum to boost efforts in the Donetsk direction," Konashenkov said.

<https://tass.com/defense/1505807>

Russian army eliminates over 2,000 Ukrainian militants in battles at Balakleya, Izyum

TASS, September 10, 2022

The Russian Armed Forces have eliminated more than 2,000 Ukrainian fighters near Balakleya and Izyum in the past three days, Russian Defense Ministry Spokesman Igor Konashenkov told reporters on Saturday. "Over the past three days, more than 2,000 Ukrainian and foreign militants, as well as over 100 pieces of armored hardware and artillery, have been eliminated," he said.

<https://tass.com/defense/1505809>

Military Round-up from Sep. 10: Russia 'Regroups' Troops, as Ukraine Advances

KYIV Post, September 11, 2022

Russia announced Saturday, Sep. 10, it was pulling back troops from the eastern Kharkiv region of Ukraine as Kyiv announced its troops had seized a key logistics hub in a lightning counter-offensive. A Moscow-backed separatist leader in the east meanwhile said Russian forces were fighting "difficult" battles against Kyiv's troops in several parts of eastern Donetsk region. A Ukrainian official also said Kyiv's troops were closing in on the eastern city of

Lysychansk, captured by Russian troops after fierce artillery battles in July. Moscow's announcement of the pull back alongside Kyiv's claim to have entered the town of Kupiansk are the most significant shifts in battlefield dynamics after months of fighting in eastern Ukraine that has been dominated by Moscow. "A decision was made to regroup Russian troops stationed in the Balakliya and Izyum regions to bolster efforts along the Donetsk front," Russia's defence ministry said in a statement.

<https://www.kyivpost.com/russias-war/russia-regroups-troops-in-east-as-ukraine-advances.html>

Russia's collapse in northeast Ukraine ignites fury from Putin loyalists

CNN, September 11, 2022

The last week has seen a stunning transformation of the battlefield in eastern Ukraine, as a swift armored offensive by Ukrainian forces rolled through lines of Russian defenses and recaptured more than 3,000 square kilometers (more than 1,100 square miles) of territory. That is more territory than Russian forces have captured in all their operations in Ukraine since April. As much as the offensive was brilliantly conceived and executed, it also succeeded because of Russian inadequacies. Throughout swathes of the Kharkiv region, Russian units were poorly organized and equipped - and many offered little resistance.

<https://edition.cnn.com/2022/09/11/europe/ukraine-russia-eastern-front/index.html>

Russia Not Pulling Troops Out of ZNPP, Kiev Must Be Forced to Stop Shelling Nuclear Plant

SPUTNIK International, September 12, 2022

The nuclear power plant in the Zaporozhye region, the biggest in Europe, has been under shelling by Ukrainian forces for almost two months, despite calls from Moscow to stop to avert a nuclear

disaster. The Kremlin dismissed Kiev's claims of targeting Russian weapons placed there as false and accused Ukraine of nuclear blackmail.

<https://sputniknews.com/20220912/kremlin-russia-not-pulling-troops-out-of-znpp-kiev-must-be-forced-to-stop-shelling-nuclear-plant-1100676059.html>

The curtain protecting the dignity of Russia's military has been pulled back

CNN, September 13, 2022

The tsar suddenly might have no clothes. It has been a startling week on both sides of the Ukraine and Russia border. What's left of the curtain protecting the dignity of Russia's military has been pulled back, and it's definitely not the second mightiest in the world. Russia's withdrawal from around Kharkiv – a planned “regrouping” that some state media didn't even dare mention – is arguably more significant than its earlier collapse of positions around the Ukrainian capital Kyiv. These units had been dug in for months, defending their positions effectively – as CNN witnessed during weeks spent along the arterial roads north out of Kharkiv – and were at times literally minutes drive from the Russian border.

<https://edition.cnn.com/2022/09/13/europe/russia-kharkiv-withdrawal-analysis-npw-intl/index.html>

Putin's Kharkiv disaster is his biggest challenge yet. It has left him with few options

CNN, September 13, 2022

Russian President Vladimir Putin has spent more than two decades carefully cultivating his domestic political image of a strong foreign policy strategist who can outsmart Western leaders and restore Russia to its former glory. But that image has suffered significant damage in the past few days, as a blistering Ukrainian counteroffensive in eastern Ukraine exposed the inadequacies of Moscow's master plan and forced Russian troops to retreat. Experts said the Russian

collapse in Ukraine's Kharkiv region represented the biggest challenge of Putin's career, and that the Kremlin leader was running out of options.

<https://edition.cnn.com/2022/09/13/europe/russia-putin-kharkiv-ukraine-intl/index.html>

Russia's defeats in Ukraine have strategists worried about Moscow's next move

CNBC, September 13, 2022

Strategists fear Moscow could look to punish Kyiv severely for its victories on the battlefield in an effort to save face. Kyiv's forces launched a massive counterattack in the northeast of the country, reclaiming thousands of kilometers of Russian-occupied land over the last few days. “Moscow faces a stark choice now I think: face humiliating defeat in Ukraine ... and sue for peace,” strategist Timothy Ash said. “Or escalate with mass mobilisation and WMD [weapon of mass destruction].”

<https://www.cnbcm.com/2022/09/13/how-russia-could-react-after-its-humiliating-defeats-in-ukraine.html>

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<https://www.cnbcm.com/2022/09/13/how-russia-could-react-after-its-humiliating-defeats-in-ukraine.html?&qsearchterm=nuclear>

Russian forces are demoralized and degraded – now we just have to ‘drive the enemy out,’ Ukraine says

CNBC, September 13, 2022

The pressure is now on Kyiv to maintain the momentum in its counteroffensive. Western governments have hailed Ukraine’s “significant progress” in the war. Kyiv announced it had reclaimed more than 3,000 square miles of Russian-occupied territory in the east and south of the country since the start of September.

<https://www.cnbcm.com/2022/09/14/as-ukraine-recaptures-lost-land-is-this-a-turning-point-in-the-war-.html?&qsearchterm=defense>

Ukraine expects Russian strikes on energy system to grow

REUTERS, September 14, 2022

Ukraine said on Tuesday it feared Russia would step up attacks on its energy system to turn the screws on Kyiv this winter, and that it was pleading with Western powers for air defence technology to avert this. A series of devastating strikes hit Ukraine’s power and heating infrastructure over the last two days, causing mass blackouts across several eastern regions. “We expect the quantity of such attacks to grow, and are ready for various scenarios,” senior presidential adviser Mykhailo Podolyak told Reuters.

<https://www.reuters.com/world/europe/ukraine-expects-russian-strikes-energy-system-grow-2022-09-13/>

Putin tells U.N. chief he welcomes cooperation with IAEA over Zaporizhzhia plant - Kremlin

REUTERS, September 14, 2022

Russian President Vladimir Putin told United Nations Secretary-General Antonio Guterres on Wednesday that he welcomed “constructive” cooperation with the IAEA nuclear watchdog following its visit to Ukraine’s Zaporizhzhia nuclear plant, the Kremlin said. The Kremlin also said in its readout of the phone call that Putin and

Guterres discussed a deal on exports of Ukrainian grain from its Black Sea ports as well as exports of Russian food and fertilizers.

<https://www.reuters.com/world/europe/putin-tells-un-chief-he-welcomes-cooperation-with-iaea-over-zaporizhzhia-plant-2022-09-14/>

Houses flooded after missiles hit major dam

BBC, September 15, 2022

Russian missiles have hit a reservoir dam near the southern Ukrainian city of Kryvyi Rih, officials say. Residents in some areas were told to evacuate, city head Oleksandr Vilkul said, but he added the situation was under control. Ukraine said the strike was revenge by Russia for its recent counter-attack. President Volodymyr Zelensky - who was born in the city - described Russia as a “terrorist state” after the attack on the Karachunivske reservoir. “You are weaklings who fight civilians,” Mr Zelensky said in his late night address on Wednesday. “Scoundrels who, having escaped from the battlefield, are trying to do harm from somewhere far away.”

<https://www.bbc.com/news/world-europe-62910245>

Russian leader reveals China’s ‘concern’ over Ukraine

BBC, September 15, 2022

Vladimir Putin has acknowledged China’s “concern” over Ukraine, in his first face-to-face talks with President Xi Jinping since the Russian invasion. But speaking in Uzbekistan, Mr Putin also thanked China for its “balanced position” - and said US “attempts to create a unipolar world” would fail. Mr Xi said China was willing to work with Russia as “major countries”. China hasn’t endorsed Russia’s invasion but has grown trade and other ties with Moscow since it was launched. The two leaders’ meeting on the sidelines of the Shanghai Cooperation Organisation (SCO) summit in Samarkand comes at a crucial

point in the Ukraine war, as Russian troops lose ground in parts of the country.

<https://www.bbc.com/news/world-asia-62912892>

Work on 'Strategic' Russia-Iran Cooperation Agreement at 'Final Stage': Putin

SPUTNIK International, September 15, 2022

Iran signed a memorandum of commitment to the Shanghai Cooperation Organization on Thursday as the SCO summit kicked off in Uzbekistan. The Islamic Republic is expected to be officially accepted as a member of the Eurasian political, economic and security bloc before the summit is through. Relations between Russia and Iran are developing along all vectors, and work on a major new cooperation agreement which will take relations to the new level is close to completion, President Vladimir Putin has announced.

<https://sputniknews.com/20220915/work-on-new-russia-iran-cooperation-agreement-at-final-stage-putin-1100800851.html>

Russian, Chinese warships begin joint patrolling in Pacific Ocean

TASS, September 15, 2022

Russian and Chinese warships have sailed off for a second joint patrolling of the Pacific region, the Russian defense ministry said on Thursday. "As part of the implementation of the program of international military cooperation, warships of the Russian Navy and the Chinese People's Liberation Army Naval Forces are conducting a second joint patrolling in the Pacific Ocean," the ministry said.

<https://tass.com/defense/1507599>

C. China

How the changing language in space reflects the geopolitical tensions on Earth

South China Morning Post, September 1, 2022

In the Chinese space station Tiangong, which means "heavenly palace", Chinese is

the only language used for instructions. This was unimaginable back in 2011, when the US passed the Wolf Amendment to limit cooperation between agencies such as Nasa and Beijing or Chinese companies, effectively excluding China from participating in the International Space Station. And it offers an interesting perspective on how China is affecting the international order and food for thought on geopolitical tensions. Before China's entry, Russia and the United States were the only two countries that had independently launched space stations. The former Cold War rivals had wanted to gain superiority in space technology.

<https://www.scmp.com/comment/opinion/article/3190374/how-changing-language-space-reflects-geopolitical-tensions-earth>

The Chinese space experiment to help astronauts grow food in low gravity

South China Morning Post, September 1, 2022

Astronauts on China's Tiangong space station are flexing their green thumbs as part of an experiment that researchers hope will shed light on the effects of low gravity on plant growth. Seeds carried on the space station's Wentian lab module have sprouted and are in good condition, the Chinese Academy of Sciences (CAS) said. A photo shows Arabidopsis thaliana plants, also known as thale cress, on the space station have sprouted leaves while long-grain rice plants have reached a height of about 30cm (11.8 inches).

<https://www.scmp.com/news/china/science/article/3190875/chinese-space-experiment-help-astronauts-grow-food-low-gravity>

Shenzhou-14 crew completes 1st spacewalk mission; China's extravehicular tech 'more mature and task-oriented'

Global Times, September 2, 2022

Having moved into China's space home for nearly three months, the Shenzhou-14 crew smoothly conducted its first

extravehicular activity, the China Manned Space Agency (CMSA) said. The entire process took about six hours, and it was the first time that taikonauts ventured out through the airlock cabin in the Wentian lab module, which just arrived at the space station about a month ago. Mission commander of Shenzhou-14 Chen Dong and crew member Liu Yang were assigned to conduct the spacewalk mission this time, while their teammate Cai Xuzhe was responsible for various support work inside the cabin, state media China Central Television reported.

<https://www.globaltimes.cn/page/202209/1274466.shtml>

Long March 5B rocket arrives at Wenchang spaceport for Mengtian space station lab module October launch

Global Times, September 3, 2022

The Long March-5B Y4 carrier rocket that is commissioned to ferry the China Space Station Mengtian laboratory module into orbit, has safely arrived at the Wenchang Space Launch Site in South China's Hainan Province, the Global Times learned from the China Manned Space Agency (CMSA). Next, the Long March-5B Y4 rocket will carry out general assembly work at the launch pad and other testing work together with the Mengtian module that arrived earlier, the CMSA said in a press release it provided to the Global Times. China is gearing up smoothly to complete the building of the country's first space station with the Mengtian - third and last part for the basic three-module T structure and the second lab module following Wentian module - to be launched and connected to the current space station combination in October.

<https://www.globaltimes.cn/page/202209/1274512.shtml>

China launches new remote sensing satellite

Global Times, September 3, 2022

China sent a new remote sensing satellite into space from the Jiuquan Satellite Launch

Center in northwest China. The satellite, Yaogan-33 02, was launched by a Long March-4C carrier rocket at 07:44AM (Beijing Time) and has entered the planned orbit successfully. It will be used for scientific experiments, land resources surveys, crop yield estimation, and disaster prevention and relief. This was the 435th flight mission of the Long March series carrier rockets.

<https://www.globaltimes.cn/page/202209/1274524.shtml>

China's near-space solar-powered drone that can substitute satellites makes maiden flight

Liu Xuanzun and Liu Yang

Global Times, September 4, 2022

China's near-space solar-powered large unmanned aerial vehicle has recently carried out its maiden flight successfully, with analysts saying that the drone can assume the role of a satellite for reconnaissance, monitoring, surveying and communications relay missions when satellite services are not immediately available in emergencies. The Qimingxing-50, or Morning Star-50, China's first large drone with solar energy as the only power source, successfully made its maiden flight, the Global Times learned from its developer, the Aviation Industry Corporation of China (AVIC). According to AVIC, the large solar-powered drone took off in Yulin, Northwest China's Shaanxi Province, and landed smoothly after 26 minutes airborne, successfully completing its maiden flight with all systems operating normally.

<https://www.globaltimes.cn/page/202209/1274541.shtml>

Chinese space designers eye moon base in volcanic caves for long-term stays after 2035

South China Morning Post, September 4, 2022

Space architects in China are designing a moon base carved out of volcanic caves,

as the country looks at long-term stays for astronauts after 2035. The tunnels, also known as underground lava tubes, were carved out of molten rock during ancient volcanic eruptions. While the outside of the lava flow cooled more quickly and solidified, the rest poured out to leave a hollow elongated shell behind. The tubes can be several kilometres long and tens of metres wide, offering a natural shelter against space radiation and extreme temperatures on the lunar surface.

<https://www.scmp.com/news/china/science/article/3191291/chinese-space-designers-eye-moon-base-volcanic-caves-long-term>

China's Y-20 transport aircraft draws attention at Airpower 2022 in Austria

China Military Online, September 5, 2022

China's large transport aircraft Y-20, codenamed "Kunpeng," came under the spotlight at the two-day Airpower 2022 in Austria, the largest airshow in Europe. Designed and manufactured by the state-owned Aviation Industry Corporation of China (AVIC), the Y-20 has a maximum takeoff weight of around 200 tons. A Y-20 aircraft set off from an airport in central China and arrived in Zeltweg on the same day, with a one-way distance of nearly 10,000 kilometers. It is the first time for the Y-20 aircraft to head toward Europe to participate in an international airshow. With outstanding performances in cruise range, payload and speed, the Y-20 is an important tool for long-range strategic delivery and the strategic transformation of the Chinese Air Force in both offensive and defensive capabilities.

http://eng.chinamil.com.cn/view/2022-09/05/content_10182919.htm

China marks a milestone in new-gen heavy-duty rocket devt with successful engine test

Global Times, September 6, 2022

China has successfully conducted a whole-craft running test for its 25-ton-level closed expander cycle hydrogen-oxygen rocket

engine for the first time recently, which its developers claimed marked the world's largest scale testing for the kind and a key technology breakthrough for the country's development of the new-generation super heavy-lift launch vehicle. The China Aerospace Science and Technology Corporation (CASC) revealed on its official website in December 2021 that the closed expander cycle hydrogen-oxygen rocket engine system has the advantages of high performance and high reliability, and has the ability of multiple starts and of large-scale variable thrust adjustment. It can be used for complex space missions such as manned moon landing, manned Mars landing and deep space exploration, according to the CASC.

<https://www.globaltimes.cn/page/202209/1274765.shtml>

China supports continued presence of IAEA experts at Zaporizhzhia nuclear power plant

Xinhua, September 7, 2022

China expressed support for the continued presence of the experts of the International Atomic Energy Agency (IAEA), UN's nuclear watchdog, at Ukraine's Zaporizhzhia nuclear power plant. Speaking at the Security Council briefing on the Zaporizhzhia nuclear power plant, China's deputy permanent representative to the United Nations, Geng Shuang, said: "for some time, the safety and security of the Zaporizhzhia nuclear power plant has been nerve-racking for the international community. And it has been the unanimous expectation of all to facilitate an IAEA field visit to the plant as soon as possible." The envoy said that thanks to the joint corporation of Russia and Ukraine, IAEA Director General Rafael Mariano Grossi and his colleagues were able to make a successful visit last week, which helps gain a comprehensive and objective understanding of the nuclear facilities' operation and damage, so as to take targeted actions.

<https://english.news.cn/20220907/3794e9f7864542f2bc284507385790c5/c.html>

Why China is speeding up research on core technologies

CGTN, September 7, 2022

Since 2020, China has successfully carried out a series of flight mission, including the space station core module Tianhe, the Shenzhou-12 and Shenzhou-13 manned spacecraft, and the Tianzhou-2 and Tianzhou-3 cargo spacecraft, achieving remarkable progress in China's space program. Not only in aerospace, for the past decade, Chinese scientists are striving for breakthroughs in core technologies echoing President Xi Jinping's call for resolute efforts to achieve breakthroughs in core technologies in key fields. Xi stressed improving a new system for mobilizing the resources nationwide to the core technologies research and development (R&D) while presiding over the 27th meeting of the Central Commission for Comprehensively Deepening Reform.

<https://news.cgtn.com/news/2022-09-07/Why-China-is-speeding-up-research-on-core-technologies-1d8h2b5F89a/index.html>

President Xi stresses improving system to achieve breakthroughs in core technologies in key fields

Global Times, September 7, 2022

Chinese President Xi Jinping stressed improving a new system for mobilizing China's nationwide resources to achieve breakthroughs in core technologies and establish competitive advantages and seize the strategic initiative in several important areas during a key meeting held in Beijing. While presiding over the 27th meeting of the Central Commission for Comprehensively Deepening Reform, Xi also stressed comprehensively strengthening efforts to conserve resources, the Xinhua News Agency reported. At the meeting, Xi suggested giving full play to China's socialist system's advantages, which allow the nation to concentrate its strength and efforts on major things, Xinhua reported.

<https://www.globaltimes.cn/page/202209/1274803.shtml>

US in no position to mention 'responsible behavior' in space as Pentagon doc a grave threat to peace, security: Chinese FM

Global Times, September 7, 2022

The US is in no position to talk about formulating so-called code for responsible behavior in outer space, given the fact that for a long time, the US has openly regarded outer space as a combat domain, Chinese Foreign Ministry spokesperson Mao Ning said. Mao made the remarks during a routine press conference, in responding to inquiries concerning the freshly released US new "Space Policy" that recognizes outer space "as a priority domain of national military power." The US defense department document states that it will "protect and defend the use of space for US national security purposes, the US economy, and allies and partners of the US." The updated policy formally adopts a list of "tenets of responsible behavior in space" issued by Defense Secretary Lloyd Austin in a July 2021 memo, the spacenews.com reported.

<https://www.globaltimes.cn/page/202209/1274879.shtml>

How US can avoid repeating Cold War space race mistakes with China

Paul Freeland

South China Morning Post, September 8, 2022

A new space race between China and the United States is both exciting and worrying. It's exciting - especially to space nerds like me - because space exploration has been an afterthought since the Cold War ended, and that is to our detriment. Our human need to explore, understand and inspire didn't end with the fall of the Soviet Union. It's also exciting because it's damn cool. How else would you describe launching a 32-storey, 26 million kg building into lunar orbit with explosions?

<https://www.scmp.com/comment/opinion/article/3191431/how-us-can-avoid-repeating-cold-war-space-race-mistakes-china>

Leap-forward development of PLA Naval aviation force from shore-based to ship-based

China Military Online, September 8, 2022

A forum on the development of PLA's naval aviation force came to an end in Qingdao, Shandong Province, on September 7. It is learned at the forum that the PLA naval aviation force's transformation from a shore-based force to a ship-based force has been basically completed, with the force playing a more-and-more important role in safeguarding the sovereignty, security and development interests of China both in the air and on the sea. The PLA's naval aviation force was formally established as a service in September 1952. According to a chief from the Aviation Bureau of the PLA Navy Staff Department, as a ship-based force that is taking shape by now, the naval aviation has established a ship-based aircraft system based on four types of aircraft, namely, ship-based fighter jets, helicopters, early warning aircraft and trainer aircraft.

http://eng.chinamil.com.cn/view/2022-09/08/content_10183759.htm

Chinese atomic clock trio bound for Tiangong space station in boost to GPS, dark matter probes

South China Morning Post, September 8, 2022

China will soon send a trio of atomic clocks to its Tiangong space station, to establish a space-based timekeeping system of exceptional accuracy. The clocks can work together to measure time with 10-17 stability – or missing one second every few billion years – the chief scientist of the Chinese crewed space programme said. The devices have been packed inside a pair of fridge-sized cabins and are waiting to lift off from the Wenchang spaceport in southern China in October, Gu Yidong told a recent national space science assembly in Taiyuan.

<https://www.scmp.com/news/china/science/article/3191849/chinese-atomic-clock-trio-bound-tiangong-space-station-boost-gps>

China's record-breaking wind tunnel goes Mach 33 thanks to Australian invention

South China Morning Post, September 8, 2022

The world's largest free-piston driven shock tunnel is now up and running in southwestern China, allowing low-cost, high-quality wind tunnel experiments in hypersonic research, according to scientists involved in the project. The facility, based on a design proposed by Australian scientists, can simulate extreme flight conditions from 2.5 to 11.5 kilometres per second (1.55-7.14 miles per second) – or more than 33 times the speed of sound. The researchers said they expect the advanced facility in Sichuan province to soon contribute to a wide range of missions, such as putting Chinese astronauts on the moon and the development of a hypersonic aircraft that could reach anywhere in the world in an hour.

<https://www.scmp.com/news/china/science/article/3191777/chinas-record-breaking-wind-tunnel-goes-mach-33-thanks>

Chinese and Indian troops in area of Jianan Daban begin disengagement

China Military Online, September 9, 2022

On 8th September, 2022, according to the consensus reached in the 16th Round of China-India Corps Commander Level Meeting, the Chinese and Indian troops in the area of Jianan Daban have begun to disengage in a coordinated and planned way, which is conducive to the peace and tranquility in the border areas.

http://eng.chinamil.com.cn/view/2022-09/09/content_10183871.htm

China's Phase-4 lunar probe mission approved by state, expected to build basic structure for Intl Lunar Research Station

Global Times, September 10, 2022

China's Phase-4 lunar probe mission, consisting of the Chang'e-6, -7, and -8 to be carried out successively in 10 years, has obtained state approval and is proceeding smoothly, the China National Space Administration (CNSA) announced. The mission is hoping to explore the Moon's South Pole region and build a basic structure of the International Lunar Research Station (ILRS). The Chang'e-6 probe, which has served as a backup for Chang'e-5 with a sample retrieval capability, will travel to the far side of the moon, Liu Jizhong, Director of China Lunar Exploration and Space Engineering Center, said in an interview with China Central Television (CCTV). He added that the module has been basically completed.

<https://www.globaltimes.cn/page/202209/1275015.shtml>

D. Pakistan

Drone Technology: Pakistan achieved another milestone

Dunya News, September 5, 2022

Pakistan have achieved another milestone in the field of drone technology as the locally developed 'Burraq' drone equipped with missiles can successfully hit its target from a height of 15,000 feet. Pakistan (the first nuclear power of the Islamic world) have become self-sufficient in defence technology, as the country also developed armed drones with missile technology. 'Burraq' and 'Shahpar' drones are masterpieces of the capabilities of Pakistani scientists and engineers. The 'Burraq' drone can fly continuously for 10 hours at an altitude of 15,000 feet. This missile-equipped drone is completely developed in Pakistan and is capable of successfully hitting its target.

<https://dunyaenews.to/en/Technology/666461-Drone-Technology:-Pakistan-achieved-another-milestone->

No Bayraktar Drones For India; Turkish CEO Says Will Sell TB2 UAVs Only To Brotherly Nations Like Pakistan, Ukraine

The Eurasian Times, September 7, 2022

In response to whether armed drones might be deployed in a conflict between China and Taiwan, Haluk Bayraktar, CEO of Baykar Technology, stated in an interview with Nikkei Asia: "It is now out of the question to have a war without drones." Bayraktar also noted that those who do not use drones effectively would lose. He also stated that his company had not spoken to the self-governing island of Taiwan about drone sales. He did, however, point out that China is a "global drone producer" and that he is keeping an eye on news concerning Beijing's aggressive drone use. "Drone technologies are a must-have for all warfare now and in the future. They are sine qua non, and the ones not using them will be on the losing side," Bayraktar said. In the Ukrainian war, Baykar's TB2 drones have proven effective, enabling Ukraine's armed forces to halt Russia's push toward the capital, Kyiv. Video footage of the drones striking Russian tanks, vehicles, and missile defense systems has been extensively circulated on social media platforms.

<https://eurasianimes.com/no-bayraktar-drones-for-india-turkish-ceo-says-will-sell-tb2-drones/>

Biden Administration approves \$450 million F-16 fleet sustainment programme to Pakistan

The Hindu, September 8, 2022

Reversing the decision of its predecessor, the Biden Administration has approved a whopping USD 450 million F-16 fighter jet fleet sustainment programme to Pakistan.

As a notification to the U.S. Congress, the State Department has made a determination approving a possible foreign

military sale of F-16 case for sustainment and related equipment for an estimated cost of USD 450 million, arguing that this will sustain Islamabad's capability to meet current and future counterterrorism threats by maintaining its F-16 fleet.

<https://www.thehindu.com/news/international/biden-administration-approves-450-million-f-16-fleet-sustainment-programme-to-pakistan/article65864895.ece?homepage=true>

Readout of Secretary of Defense Lloyd J. Austin III's Call With Pakistan's Chief of Army Staff General Qamar Javed Bajwa

US Department of Defense, September 9, 2022

On September 9th, Secretary of Defense Lloyd J. Austin III called General Qamar Javed Bajwa, Pakistan's Chief of Army Staff, to offer his sincere condolences to the people of Pakistan amid the devastating floods there. He commended the heroic efforts of the Government of Pakistan and the Pakistani military response to the ongoing disaster. During the call, they also discussed DoD's and USCENTCOM's assistance to USAID in the delivery of urgently needed humanitarian aid to Pakistan. Gen. Bajwa detailed the catastrophic effects of the flooding there, impacting 33 million people, and thanked the Secretary for the U.S. Government's assistance.

<https://www.defense.gov/News/Releases/Release/Article/3154138/readout-of-secretary-of-defense-lloyd-j-austin-iii-s-call-with-pakistans-chief-o/>

E. Europe

EU states prepare for emergency talks on Russian gas price cap

REUTERS, September 08, 2022

European Union countries were poring over a range of proposals from Brussels ahead of emergency talks on Friday aimed at finding bloc-wide measures to cut rocketing energy costs before winter. European Commission President Ursula von der Leyen has put forward plans including a price cap on

Russian gas which has raised concerns in some capitals, a bloc-wide cut in electricity demand and a windfall levy on non-gas generators.

<https://www.reuters.com/business/energy/eu-states-prepare-emergency-talks-russian-gas-price-cap-2022-09-08/>

UK, France, Germany Raise 'Serious Doubts' Over Iran's Commitment to Nuclear Deal

SPUTNIK International, September 10, 2022

The United Kingdom, France and Germany said on Saturday they were skeptical about Iran's commitment to a successful outcome of nuclear talks. The European signatories to the 2015 nuclear pact said Iran's position on nonproliferation safeguards "contradicts its legally binding obligations and jeopardizes prospects of restoring" the deal. "This latest demand raises serious doubts as to Iran's intentions and commitment to a successful outcome on the JCPoA," they said in a joint statement, referring to the pact by its formal name.

<https://sputniknews.com/20220910/uk-france-germany-raise-serious-doubts-over-irans-commitment-to-nuclear-deal-1100643217.html>

EU to claw back energy firms' profits rather than cap Russian gas price

REUTERS, September 10, 2022

European Union energy ministers on Friday tasked Brussels with drafting proposals within a few days to cap the revenues of non-gas energy producers and help power firms stay afloat. But as they sought to protect citizens from soaring energy prices that have driven inflation across the continent to record highs, the ministers backed away from more divisive proposals to cap Russian gas prices. At an emergency meeting in Brussels, the ministers instead asked the European Commission to propose broader gas price caps, even as the EU executive itself swiftly

poured cold water on the feasibility of such an idea.

<https://www.reuters.com/business/energy/eu-countries-seek-emergency-solution-soaring-energy-bills-2022-09-09/>

EU eyes levy on fossil fuel firms to help consumers survive energy crisis

REUTERS, September 12, 2022

Fossil fuel firms may have to share their excess profits to help European households and industries cope with red-hot energy bills, a draft European Union plan showed on Monday as the cost of the West's "energy war" with Russia took a growing toll. Energy prices and inflation have surged as Moscow slashed gas supplies in response to Western sanctions imposed over its actions in Ukraine, prompting France to tell consumers they would have to share some of the pain while Britain is among countries facing the threat of recession.

<https://www.reuters.com/business/energy/rocketing-energy-prices-hit-europe-debates-gas-price-cap-2022-09-12/>

EU proposes \$140 billion windfall tax on energy companies

CNN, September 14, 2022

The European Union wants to raise •140 billion (\$140 billion) by tapping the windfall profits of some energy companies to help households and businesses pay eye-watering gas and electricity bills. On Wednesday, the European Commission proposed capping the profits of renewable and nuclear electricity producers, and taxing the windfall earnings of oil and gas companies. Profits at power generators using wind, solar and nuclear energy have ballooned because their tariffs are linked to the wholesale price of natural gas, which soared to a record high in March after Russia invaded Ukraine, and now stands about 550% up on year-ago levels.

<https://edition.cnn.com/2022/09/14/business/eu-energy-crisis-windfall-tax/index.html>

F. Ukraine

How risky is stand-off over Zaporizhzhia?

BBC, September 01, 2022

UN nuclear inspectors have said they will try to maintain a permanent presence at Europe's biggest nuclear power plant - close to the front line in Ukraine - to help prevent a nuclear accident. Rafael Grossi, the head of the International Atomic Energy Agency, has warned of a very real risk of nuclear disaster. After weeks of trying, he has led a team to the plant where Ukrainian staff have worked in highly challenging conditions for almost six months. Russia seized the Zaporizhzhia plant on the left bank of the River Dnieper at the start of its war and the two sides have since accused each other of repeatedly shelling it.

<https://www.bbc.com/news/world-europe-62602367>

IAEA chief Grossi says mission to Ukrainian nuclear plant is technical

REUTERS, September 1, 2022

The head of the International Atomic Energy Agency (IAEA), Rafael Grossi, said on Wednesday the agency's planned visit to Ukraine's Zaporizhzhia nuclear power plant was a "technical mission" that aimed to prevent a nuclear accident.

<https://www.reuters.com/world/iaea-chief-grossi-says-mission-ukrainian-nuclear-plant-is-technical-2022-08-31/>

IAEA mission determined to reach Ukrainian nuclear plant despite delays

REUTERS, September 1, 2022

Ukraine said a UN team on its way to inspect the Russian-controlled Zaporizhzhia nuclear power plant on Thursday was stuck at a checkpoint about

20 km (12.4 miles) from the front line after reports of fresh shelling earlier in the day.

<https://www.reuters.com/world/europe/iaea-mission-determined-reach-ukrainian-nuclear-plant-despite-delays-2022-09-01/>

Ukraine nuclear reactor shut down due to shelling, operator says

REUTERS, September 1, 2022

One of two operational reactors at Ukraine's Russian-held Zaporizhzhia nuclear plant complex has been shut down due to Russian shelling, operator Energoatom said on Thursday. "As a result of another mortar shelling by Russian ... forces at the site of the Zaporizhzhia nuclear power plant, the emergency protection was activated and the operational fifth power unit was shut down," Energoatom wrote on the Telegram messaging app.

<https://www.reuters.com/world/europe/ukraine-nuclear-reactor-shut-down-due-shelling-operator-says-2022-09-01/>

Two IAEA inspectors to stay at Zaporizhzhia nuclear plant permanently

REUTERS, September 02, 2022

Two inspectors from the International Atomic Energy Agency (IAEA) will stay at the Zaporizhzhia nuclear power plant on a permanent basis, Russia's ambassador to international institutions in Vienna told the RIA Novosti news agency on Friday.

<https://www.reuters.com/world/europe/two-iaea-inspectors-stay-zaporizhzhia-nuclear-plant-permanently-russian-envoy-2022-09-02/>

Bombs fall as U.N. inspectors reach embattled Ukrainian nuclear plant

The Washington Post, September 02, 2022

A team of U.N. nuclear experts made an initial inspection at the embattled Zaporizhzhia nuclear power plant on Thursday after traversing a contested stretch of southeastern Ukraine besieged by mortar shelling and small weapons fire. "I have just completed a first tour of the key areas that

we wanted to see," Rafael Grossi, director general of the International Atomic Energy Agency, said in a video message from the plant. "Of course there is a lot more to do. My team is staying on."

<https://www.washingtonpost.com/world/2022/09/01/ukraine-russia-nuclear-inspectors-plant/>

IAEA Presence at Zaporizhzhia Nuclear Plant to Last "Until Sunday or Monday" - Director General

KYIV Post, September 03, 2022

The IAEA's Director General has stated that a portion of the mission to the Russia-controlled Zaporizhzhia nuclear plant in southern Ukraine will remain there "until Sunday or Monday." Rafael Grossi, who is leading an inspection of the frequently shelled plant, told reporters: "There is a group that is going to be there [at the plant] until Sunday or Monday, continuing with the assessment." The exact number of people expected at the facility was not made clear. The fifth reactor at the plant was shut down due to shelling early on Thursday, yet was once again operational by Friday, after the head of Ukraine's state nuclear company stating that Ukrainian authorities were making "all efforts" to turn it back on.

<https://www.kyivpost.com/russias-war/iaea-presence-at-zaporizhzhia-nuclear-plant-to-last-until-sunday-or-monday-director-general.html>

Ukraine live briefing: Nuclear plant disconnected from main line; European leaders blast Nord Stream shutdown

The Washington Post, September 03, 2022

The Zaporizhzhia nuclear power plant has lost connection to its main power source, the International Atomic Energy Agency (IAEA) said Saturday. The facility is now operating through a reserve line as United Nations inspectors continue evaluating its safety. European officials cast doubt on Russia's motives for halting the natural gas flow through a key pipeline, which was

expected to reopen Saturday. Here's the latest on the war and its ripple effects across the globe.

<https://www.washingtonpost.com/world/2022/09/03/russia-ukraine-war-latest-updates/>

Ukraine live briefing: Kyiv claims areas 'liberated' in the south; Putin approves new foreign policy doctrine

The Washington Post, September 03, 2022

Ukrainian officials suggest their long-promised counteroffensive in the south is making progress, with the Luhansk regional governor also nodding to early signs of "good news" in the process of "de-occupation of our region" on Monday. The Kremlin also sought to avoid blame for the shutdown of the gas pipeline Nord Stream 1, while Russian President Vladimir Putin approved a 31-page doctrine outlining the Kremlin's broad foreign policy vision based around the values and interests of the "Russian World."

<https://www.washingtonpost.com/world/2022/09/05/russia-ukraine-war-latest-updates/>

Ukraine fears radioactive contamination from Zaporizhzhia

CNN, September 03, 2022

Ukrainian refugees fleeing Russian-held territory near the Zaporizhzhia nuclear plant are causing radioactive contamination fears. CNN's Sam Kiley reports.

<https://edition.cnn.com/videos/world/2022/09/03/zaporizhzhia-nuclear-plant-refugees-flee-kiley-pkg-intl.cnn>

Zaporizhzhia nuclear plant loses main connection to power grid again

CNN, September 04, 2022

Ukraine's largest nuclear plant lost its main connection to the power grid again Saturday amid sustained shelling, despite the presence of international inspectors. Zaporizhzhia nuclear power plant is now relying on a reserve line to supply electricity to the grid,

the International Atomic Energy Agency (IAEA) said. Inspectors from the UN nuclear watchdog arrived at the site Thursday despite concerns about constant shelling in the area. Ukraine and Russia have blamed each other for the repeated artillery fire.

<https://edition.cnn.com/2022/09/04/europe/ukraine-zaporizhzhia-sunday-intl/index.html>

Ukraine military chief says 'limited' nuclear war cannot be ruled out

The Washington Post, September 07, 2022

Ukraine's top military chief warned Wednesday that a "limited" nuclear war between Russia and the West cannot be discounted, a scenario with grave global implications. "There is a direct threat of the use, under certain circumstances, of tactical nuclear weapons by the Russian armed forces," the Ukrainian commander in chief, Gen. Valery Zaluzhny wrote in an article published by Ukrinform, a state-run media outlet. "It is also impossible to completely rule out the possibility of the direct involvement of the world's leading countries in a 'limited' nuclear conflict, in which the prospect of World War III is already directly visible."

<https://www.washingtonpost.com/world/2022/09/07/ukraine-russia-nuclear-attacks-crimea/>

Why the next few months is crucial for the future of Ukraine's military

CNN, September 07, 2022

Armed Services Committee Chairman Adam Smith and CNN's Kate Bolduan discuss US plans to support Ukraine's military long term, the possibility of Russian military aid from North Korea and the Zaporizhzhia nuclear plant.

<https://edition.cnn.com/videos/politics/2022/09/07/us-ukraine-military-future-russia-armed-services-chairman-smith-intv-ath-vpx.cnn>

Ukraine says it downs Russian missiles, UN pushes for nuclear plant's safety

REUTERS, September 07, 2022

Ukrainian forces shot down five Russian cruise missiles on Tuesday, most of them in the south, President Volodymyr Zelenskiy said, but he made no mention of a new military success in the east hinted at by officials earlier.

<https://www.reuters.com/world/shelling-ukrainian-nuclear-plant-highlights-danger-ahead-un-report-2022-09-06/>

UN Watchdog Urges Security Zone at Ukraine Nuclear Plant

KYIV Post, September 07, 2022

The UN's atomic watchdog called Tuesday for a security zone to be set up around Ukraine's Zaporizhzhia nuclear power plant, which is occupied by Russia, as the area was hit by more shelling. Russian troops seized control of the plant – Europe's biggest atomic facility – in March and there have been repeated attacks in the vicinity, sparking fears of a nuclear disaster. "The current situation is untenable," the International Atomic Energy Agency (IAEA) said in a report after it sent inspectors to the plant last week. "There is an urgent need for interim measures to prevent a nuclear accident.... This can be achieved by the immediate establishment of a nuclear safety and security protection zone." At the United Nations, Russia said it regretted that the report did not blame Ukraine for the attacks.

<https://www.kyivpost.com/russias-war/un-watchdog-urges-security-zone-at-ukraine-nuclear-plant.html>

Ukraine backs UN call for nuclear plant safe zone

BBC, September 07, 2022

Ukrainian President Volodymyr Zelenskiy has welcomed calls by the UN nuclear agency for a safety protection zone at the Zaporizhzhia nuclear power plant. The

plant has been occupied by Russia since the start of the war and it has come under repeated attack since, with both sides blaming each other. The UN says that the shelling of Europe's largest nuclear power station must end immediately. Shelling could cause unlimited release of radioactive materials, it said.

<https://www.bbc.com/news/world-europe-62816114>

As Ukraine pushes southern offensive, it also hits Russia in the northeast

CNN, September 08, 2022

Ukrainian President Volodymyr Zelenskiy has hailed "good news" from the northeastern Kharkiv region, after an apparent surprise counter-offensive forced Russian troops onto the back foot and prompted a pro-Kremlin official to call for evacuations. The Russian-installed head of the Kupiansk city administration, Vitaly Ganchev, urged women and children to evacuate the city as Ukrainian forces approached.

<https://edition.cnn.com/2022/09/08/europe/ukraine-kharkiv-counteroffensive-russia-intl/index.html>

Zelenskiy says next year's budget will be a war budget, focus on defence

REUTERS, September 08, 2022

Ukrainian President Volodymyr Zelenskiy on Wednesday said next year's budget would be a war budget, devoting more than a trillion hryvnias (\$27.40 billion) to defence and security spending. In an evening video address, he also said social obligations such as pensions had to be covered in full. Non-critical expenses must be reduced as much as possible, he added. Zelenskiy said he had met earlier in the day with Finance Minister Serhiy Marchenko and other officials.

<https://www.reuters.com/world/europe/zelenskiy-says-next-years-budget-will-be-war-budget-focus-defence-2022-09-07/>

Ukraine forces employing Western arms to devastating effect - U.S. top general

REUTERS, September 08, 2022

Ukraine is using its modern Western weapons to devastating effect, striking hundred of Russian targets with the U.S.-supplied HIMARS rocket system alone, General Mark Milley, the Chairman of the U.S. Joint Chiefs of Staff, said on Thursday. "We are seeing real and measurable gains from Ukraine in the use of these systems. For example, the Ukrainians have struck over 400 targets with the HIMARS and they've had devastating effect," Milley told reporters after a meeting of dozens of defence ministers at Ramstein air base in Germany.

<https://www.reuters.com/world/us-approves-675-million-additional-weapons-ukraine-defence-leaders-meet-2022-09-08/>

Ukraine's top general warns of Russian nuclear strike risk

REUTERS, September 08, 2022

In rare public comments Ukraine's military chief warned on Wednesday of the threat of Russia using nuclear weapons in Ukraine, which would create the risk of a "limited" nuclear conflict with other powers. The war in Ukraine that began with Russia's invasion on Feb. 24 was likely to rage on into next year, General Valeriy Zaluzhnyi said in an article co-authored by lawmaker Mykhailo Zabrotskyi and published by state news agency Ukrinform.

<https://www.reuters.com/world/europe/ukraine-military-chief-limited-nuclear-war-cannot-be-ruled-out-2022-09-07/>

Zelensky claims significant gains in northeastern Ukraine as key city retaken

CNN, September 09, 2022

Ukrainian officials say the military has made sweeping gains in a counteroffensive in the northeastern Kharkiv region, with President Volodymyr Zelensky asserting that a key city

in the region has been reclaimed by Ukrainian forces and that Russian offensives across the country are being repelled. Zelensky posted a video on his social media accounts with Ukrainian soldiers standing above a building in the key Kharkiv city of Balakliia, which was under Russian occupation for six months, alongside the Ukrainian flag. "The order is fulfilled. Russian occupational troops have withdrawn," one of the soldiers says in the video.

<https://edition.cnn.com/2022/09/09/europe/zelensky-north-east-ukraine-kharkiv-region-intl/index.html>

UN says blackout threatens Zaporizhzhia nuclear plant

BBC, September 09, 2022

The head of the UN nuclear agency has warned that the situation at the Russian-held Zaporizhzhia nuclear plant in Ukraine is increasingly precarious. Rafael Grossi said shelling had knocked out power in the nearby city of Enerhodar which fed the plant, and it was unlikely to be restored. The operator was considering switching off the last reactor, Mr Grossi said. This would make the plant totally reliant on emergency diesel generators to prevent a nuclear accident.

<https://www.bbc.com/news/world-europe-62855104>

Ukrainian forces enter key city of Iziium in a sign Kyiv's new offensive is working

CNN, September 10, 2022

When Ukrainian forces entered the city of Iziium Saturday, it was more than a major military victory. It was a sign the war in Ukraine might be entering a new phase, one in which Russian troops are scrambling to hold onto the territory they captured over the past six months. Russian forces were forced to flee the strategic eastern city just five days after Ukrainian forces began a new offensive eastward through the Kharkiv region.

“Russians escaped and left weapons and ammo behind. City center is free,” a spokesperson for the Bohun Brigade of the Land Forces of Ukraine said in a statement Saturday afternoon.

<https://edition.cnn.com/2022/09/10/europe/ukraine-kharkiv-advances-intl-hnk/index.html>

Ukraine punches through Russian lines as surprise offensive retakes land in the east

CNBC, September 10, 2022

Ukrainian forces kept up their surge in the country’s east Saturday, after punching through Russian defenses in a surprise counteroffensive that could prove a decisive turning point in the war. Kyiv said its military had recaptured swaths of territory in a fast-moving thrust centered on the region around Kharkiv, Ukraine’s second-largest city, that threatened to turn into a much broader rout. Officials shared a flood of images and videos from the region, with some verified by NBC News showing soldiers raising Ukrainian flags over once-occupied cities and villages or posing victoriously next to road signs.

<https://www.cnb.com/2022/09/10/ukraine-punches-through-russian-lines-as-surprise-offensive-retakes-land-in-the-east.html?&qsearchterm=defense>

Ukrainian army says it has tripled retaken area

BBC, September 11, 2022

Ukraine’s military says its forces have retaken over 3,000 sq km (1,158 sq miles) during a rapid counter-offensive in eastern Ukraine. The remarkable advance, if confirmed, means Kyiv’s forces have tripled their stated gains in little over 48 hours. President Zelensky put the figure at 1,000 sq km on Thursday evening, and then 2,000 sq km on Saturday evening. The BBC cannot verify the Ukrainian figures, and journalists have been denied access to the frontlines.

<https://www.bbc.com/news/world-europe-62867560>

Ukraine probing emergency exports of thermal coal to Poland - Kyiv

REUTERS, September 11, 2022

Ukraine will look into whether it can urgently supply neighbouring Poland with 100,000 tonnes of thermal coal to help it get through the coming winter, President Volodymyr Zelenskiy said on Saturday. In an evening address, Zelenskiy also said he had ordered that work be speeded up on upgrading a power transmission line from Ukraine’s Khmelnytskyi nuclear plant to Poland. Ukraine and Poland are increasing this year’s production of thermal coal, the most polluting fossil fuel, preparing for colder months as Europe grapples with an energy security crisis exacerbated by the war in Ukraine.

<https://www.reuters.com/world/europe/ukraine-probing-emergency-exports-thermal-coal-poland-kyiv-2022-09-10/>

Ukraine begins to shut down the Zaporizhzhia nuclear plant as a safety measure.

The New York Times, September 11, 2022

Ukraine on Sunday began turning off the last working reactor at the Zaporizhzhia Nuclear Power Plant, after concluding that keeping it running could well be the prelude to a nuclear meltdown at Europe’s largest nuclear power facility. The step had been urged for weeks by the United States and the International Atomic Energy Agency, whose inspectors only gained access to the facility a week ago. While a direct military strike on one of the reactor cores could still trigger an accident, the risk is greatly reduced if the plant is not operating. Russian soldiers are still occupying the plant, and there have been reports of workers running the facility at gunpoint. But there have also been constant disputes over who is shelling the facility, and whether to cut off the external power that keeps critical cooling systems operating.

<https://www.nytimes.com/2022/09/11/world/europe/zaporizhzhia-nuclear-plant-shutdown.html?searchResultPosition=9>

Ukraine's Zaporizhzhia nuclear power plant halts operations

REUTERS, September 11, 2022

Operations at the Russian-held Zaporizhzhia Nuclear Power Plant in Ukraine have been fully stopped as a safety measure, Energoatom, the state agency in charge of the plant, said on Sunday. The plant "is completely stopped" after the agency disconnected the number 6 power unit from the grid at 3:41 a.m. (0041 GMT), it said in a statement. "Preparations are underway for its cooling and transfer to a cold state."

<https://www.reuters.com/world/ukraines-zaporizhzhia-nuclear-power-plant-halts-operations-energoatom-2022-09-11/>

IAEA says both sides 'engaging' with Zaporizhzhia safety zone plan

WNN, September 12, 2022

International Atomic Energy Agency (IAEA) Director General Rafael Mariano Grossi says that consultations have begun over establishing a "safety and security zone" at the Zaporizhzhia nuclear power plant and says that despite shelling continuing "I have seen signs that they are interested in this agreement". In a media conference held at the IAEA's headquarters in Austria on Monday, Grossi was asked about the detail of the plan, and whether much progress was being made on it. He said that the aim was to get a commitment from Russia and Ukraine not to attack or shell the plant. "We try to keep it simple, we try to make it practical, because we need it as soon as possible," said Grossi, when asked whether any agreement would need United Nations manpower or support from the United Nations Security Council.

<https://www.world-nuclear-news.org/Articles/IAEA-says-both-sides-engaging-with-Zaporizhzhia>

Ukraine and Russia interested in Zaporizhzhia protection zone, IAEA chief says

REUTERS, September 12, 2022

Ukraine and Russia are interested in the U.N. atomic watchdog's proposal that a

protection zone be created around the Russian-held Zaporizhzhia nuclear power plant, the watchdog's chief Rafael Grossi said on Monday, describing it as a ceasefire. Russia and Ukraine have blamed each other for shelling at the site of Europe's biggest nuclear power plant that has damaged buildings close to its six reactors and risked nuclear catastrophe, including by cutting power lines essential to cooling fuel in the reactors even though they are all shut down.

<https://www.reuters.com/world/europe/ukraine-russia-interested-zaporizhzhia-protection-zone-iaea-chief-2022-09-12/>

Ukraine inflicts 'major operational defeat' on Russia as its forces retreat

CNBC, September 12, 2022

Ukraine's surprise counterattack in the northeast of the country has sent shock waves through the Russian army. The key region around Kharkiv is home to Ukraine's second-largest city and lies close to the border with Russia. Strategists now widely believe that Ukraine had planned to use the Russian redeployment of troops as an opportunity to redouble its efforts in the northeast of the country.

<https://www.cnn.com/2022/09/12/ukraines-counterattack-around-kharkiv-1inflicts-defeat-on-russia.html?&qsearchterm=defense>

We've retaken 6,000 sq km from Russia, says Zelensky

BBC, September 13, 2022

Ukrainian forces have seized even more territory from Russia as they continue their counter-offensive, the country's president has said. Volodymyr Zelensky said troops have now retaken more than 6,000 sq km (2,317 sq miles) from Russian control in September, in the east and the south. The BBC cannot verify these figures. Russia has admitted losing key cities in the north-eastern Kharkiv region, in what is seen by some military experts as a potential breakthrough in the war. Moscow describes its troop withdrawal from the

region in recent days as a “regrouping” with the aim of focusing on the Luhansk and Donetsk regions in Ukraine’s east.

<https://www.bbc.com/news/world-europe-62884668>

Ukraine Chides Germany for Inaction as it Routs Russian Forces

US News, September 13, 2022

A top Ukrainian official lashed out at the European economic powerhouse for not providing Kyiv with the resources it needs to capitalize on its surprise counteroffensive. Ukraine issued a public rebuke of one of its most powerful Western backers on Tuesday, blasting Germany for not doing enough to support the surprise offensive that forces loyal to Kyiv have begun waging against Russia.

<https://www.usnews.com/news/world-report/articles/2022-09-13/ukraine-chides-germany-for-inaction-as-it-routs-russian-forces>

Analysis-Ukraine’s Battlefield Gains May Win It More Western Arms

US News, September 13, 2022

By showing over the past week they have a path to beating Russian forces on the battlefield, Ukraine’s troops may have won more military support from Western countries and undermined the urge of some Europeans to push Kyiv to make concessions. Only hours before German Foreign Minister Annalena Baerbock arrived in Kyiv on Saturday, Ukrainian troops were hoisting their country’s blue and yellow flag atop city hall in Kupiansk. The city east of Kharkiv housing the main railway junction that had supplied Russian troops in northeastern Ukraine was captured without a fight after Russia’s frontline collapsed.

<https://www.usnews.com/news/world/articles/2022-09-13/analysis-ukraines-battlefield-gains-may-win-it-more-western-arms>

Ukraine’s battlefield wins encourage the West but could make

the war more dangerous

CNN, September 13, 2022

Ukraine’s stunning recapture of vast areas of Russian-held territory is renewing the focus on the most chilling unknown of a war already marked by extreme cruelty – the depths to which a cornered Vladimir Putin might descend. Huge gains made by Ukrainian forces in recent days are a tribute to the bravery of troops fighting for a nation’s survival, an ingenious military strategy and yet more evidence of failures among Russia’s once vaunted armed forces.

<https://edition.cnn.com/2022/09/13/world/ukraine-wins-could-make-war-more-dangerous-analysis/index.html>

Ukraine President Zelensky has ‘no serious injuries’ after car accident

CNN, September 14, 2022

Ukrainian President Volodymyr Zelensky has emerged with “no serious injuries” from a car collision in Kyiv on Wednesday. According to a statement from the president’s press secretary, “a car collided with the car of the President of Ukraine and escort vehicles.” Medics accompanying Zelensky gave emergency aid to the car’s driver and transferred him to an ambulance, it said. “The president was examined by a doctor, no serious injuries were found,” the statement added.

<https://edition.cnn.com/2022/09/14/europe/zelensky-car-crash-intl/index.html>

Ukraine Says Arrested Russian Teachers in Regained Areas

The Moscow Times, September 14, 2022

Moscow confirmed Tuesday the arrests of Russian teachers who had been deployed to northeastern Ukraine after Kyiv’s forces recaptured swathes of the region from Russia in a lightning counteroffensive. The confirmation by Russian investigative authorities came one day after Ukraine’s top government official announced the

arrests of Russian teachers in the Kharkiv region. Prime Minister Iryna Vereshchuk said Monday that the Russian teachers faced up to 12 years in prison on charges of violating laws and customs of war, without specifying how many had been arrested.

<https://www.themoscowtimes.com/2022/09/13/ukraine-says-arrested-russian-teachers-in-re-gained-areas-a78771>

Zelensky 'shocked' by destruction in newly liberated city of Iziium, following months of Russian occupation

CNN, September 14, 2022

Ukrainian President Volodymyr Zelensky visited newly liberated Iziium in the northeastern region of Kharkiv on Wednesday, five days after the country's forces recaptured the city. Photographs on the Facebook page of an army unit showed Zelensky at a ceremony in the main square to raise the Ukrainian flag over the city's administrative building. Hanna Maliar, the Deputy Minister of Defense, was also present. "Earlier, when we looked up, we always looked for the blue sky. Today, when we look up, we are looking for only one thing - the flag of Ukraine," Zelensky said in a post on the presidential Telegram channel.

<https://edition.cnn.com/2022/09/14/europe/russia-ukraine-zelensky-izium-kharkiv-intl/index.html>

One Dead, Two Injured in Russia's Belgorod Region After Ukrainian Shelling

SPUTNIK International, September 15, 2022

In February, Russia launched a special military operation in Ukraine, after the Donetsk and Lugansk People's Republics (DPR and LPR) appealed for help in defending themselves against Ukrainian attacks. The Russian army and allied forces of the DPR and LPR continue their special military operation in Ukraine, while Kiev's troops persist in shelling the territory of the

Donbass republics, targeting not only military and industrial facilities, but also residential areas and infrastructure.

<https://sputniknews.com/20220915/live-updates-ukrainian-forces-shell-novaya-kakhovka-air-defenses-activated-authorities-1100792233.html>

Ukrainian army sustains serious losses near Soledar, Artyomovsk – Akhmat unit commander

TASS, September 15, 2022

Ukraine's army has sustained serious losses near Soledar and Artyomovsk, Secretary of Chechnya's Security Council and commander of the Akhmat special unit Apty Alaudinov said on Wednesday. "We see that they are "sensing" our positions along the entire line of the offensive, armed clashes occur every day. Attacks have been repelled along the entire frontline since yesterday. There have been several attacks at our section (Soledar-Artyomovsk - TASS) - many enemy troops and weapons have been neutralized," he said in an interview with Rossiya-1 television channel.

<https://tass.com/defense/1507567>

G. France

France's Macron hopeful of Iran nuclear deal in next few days

REUTERS, September 01, 2022

France's president said on Thursday he hoped a deal to revive the Iran nuclear deal would be concluded in the coming days. "I hope that in the next few days the JCPOA will be concluded," Emmanuel Macron said, referring to the Joint Comprehensive Plan of Action as the deal is formally known, in a speech to French ambassadors.

<https://www.reuters.com/world/frances-macron-hopeful-iran-nuclear-deal-next-few-days-2022-09-01/>

France, Germany to provide each other with gas, electricity, to weather crisis

REUTERS, September 05, 2022

France will send gas to Germany if needed while Germany stands ready to provide it with electricity, President Emmanuel Macron said on Monday, saying this showcased European solidarity in the face of the energy crisis stemming from the war in Ukraine.

<https://www.reuters.com/business/energy/france-germany-will-help-each-other-face-energy-crisis-macron-says-2022-09-05/>

French aluminium smelter to cut output as electricity prices soar

REUTERS, September 06, 2022

France's biggest aluminium smelter on Tuesday said it will reduce production by a fifth in response to soaring energy prices while unions at other metallurgical companies reported plans to curb output and shift working times.

<https://www.reuters.com/markets/commodities/french-aluminium-smelter-cut-output-by-20-due-power-costs-source-2022-09-06/>

France preparing disused pipeline to supply more winter gas to Germany

REUTERS, September 06, 2022

France is reactivating a disused pipeline in its northeastern Moselle administrative department, originally built for east-to-west flows, to send Germany gas under an energy deal unveiled by President Emmanuel Macron, according to French officials.

<https://www.reuters.com/business/energy/france-preparing-disused-pipeline-supply-more-winter-gas-germany-2022-09-06/>

France Concerned About IAEA Report on Iran, Will Consult With Partners, Foreign Ministry Says

SPUTNIK International, September 08, 2022

France is concerned about the latest International Atomic Energy Agency's

(IAEA) report on Iran's enriched uranium stockpiles and will hold consultations with partners ahead of the meeting of the IAEA Board of Governors, French Foreign Ministry spokeswoman Anne-Claire Legendre said on Thursday. On Wednesday, the IAEA said that Iran's stockpiles of enriched uranium are 19 times higher than the limit set under the Joint Comprehensive Plan of Action (JCPOA), and the amount of uranium enriched to 60% far exceeds the amount needed to build a nuclear bomb in case of further enrichment.

<https://sputniknews.com/20220908/france-concerned-about-iaea-report-on-iran-will-consult-with-partners-foreign-ministry-says-1100555401.html>

Macron Asks Putin to Withdraw Weapons from Ukraine Nuclear Plant

KYIV Post, September 12, 2022

French President Emmanuel Macron asked Russian President Vladimir Putin on Sunday to withdraw Russian heavy and light weaponry from the Zaporizhzhia nuclear power plant in a Russian-controlled area of Ukraine, Macron's office said. The Elysee said Macron had told the Russian leader in a call that "the Russian occupation was the reason for the risks" facing the largest nuclear power plant in Europe which has been a focal point of fighting in recent weeks, raising concerns of a potential nuclear incident.

<https://www.kyivpost.com/russias-war/macron-asks-putin-to-withdraw-weapons-from-ukraine-nuclear-plant.html>

H. Germany

Stress test backs extending lifespan of two German nuclear plants: sources

REUTERS, September 02, 2022

A power grid stress test has shown that extending the lifespan of two of Germany's nuclear power plants could avert an energy shortage this winter,

sources told Reuters on Friday, though the government said the results of the tests were not finalised.

<https://www.reuters.com/business/energy/no-final-result-test-extend-lifespan-german-nuclear-plants-economy-ministry-2022-09-02/>

German Economy Minister Opposes Nuclear Energy Phaseout, NPPs Closure

SPUTNIK International, September 05, 2022

The closure of two nuclear power plants (NPP) in Germany in 2022 should be canceled in the event of a possible power emergency, German Economy Minister Robert Habeck said on Monday. "In short, one solution will not solve our problem, it is a package of different measures, in this package the use of both South German nuclear power plants can play a role, possibly change the situation, so it would be wrong to give up this option," the minister said at a press conference.

<https://sputniknews.com/20220905/german-economy-minister-opposes-nuclear-energy-phaseout-npps-closure-1100411802.html>

Breaking Taboo, Germany Extends Life of 2 Nuclear Reactors

The New York Times, September 05, 2022

Germany will keep two of its three remaining nuclear power plants operational as an emergency reserve for its electricity supply, its energy minister announced on Monday, delaying the country's plans to become the first industrial power to go nuclear-free for its energy. The latest decision is aimed at giving the government more room to cushion the blow of a deepening energy crisis spurred by Russia's invasion of Ukraine, to which the European Union has responded with a string of sanctions against Moscow. Soaring energy costs have thrown the bloc into an economic tailspin – especially Germany, Europe's largest economy.

<https://www.nytimes.com/2022/09/05/world/europe/germany-extend-life-nuclear-reactors.html?searchResultPosition=15>

Germany keeps two nuclear reactors on standby to weather gas crisis

REUTERS, September 06, 2022

Germany plans to keep two of its three remaining nuclear power stations on standby, beyond a year-end deadline to ditch the fuel, to ensure enough electricity supply through the winter during a gas crunch.

<https://www.reuters.com/business/energy/germany-keep-two-nuclear-reactors-reserve-until-april-2023-2022-09-05/>

Ukraine war forces German parties to cross red lines on energy, defence

REUTERS, September 06, 2022

Russia's invasion of Ukraine and the economic fallout has forced the parties of Germany's coalition government to cross some of their long-held red lines on energy and defence, resulting in a tectonic shift in national policy.

<https://www.reuters.com/world/europe/ukraine-war-forces-german-parties-cross-red-lines-energy-defence-2022-09-06/>

Hurdles for Germany's planned nuclear winter reserve

REUTERS, September 06, 2022

Germany wants to keep two southern nuclear plants, Isar 2 and Neckarwestheim 2 open in reserve mode beyond their scheduled closure at the end of 2022, to help avoid potential energy shortages in a winter when most Russian gas supply has dried up.

<https://www.reuters.com/business/energy/hurdles-germanys-planned-nuclear-winter-reserve-2022-09-06/>

Germany examining whether energy levy can apply retroactively

REUTERS, September 06, 2022

Germany is examining whether it is legally possible to make retroactive a planned levy

on energy companies' coincidental profits, Germany Chancellor Olaf Scholz said. On Sunday, Berlin imposed a levy on power producers as part of a 65-billion-euro (\$64.44 billion) package to redistribute power profits from producers that have benefited from high gas prices.

<https://www.reuters.com/world/europe/germany-examining-whether-energy-levy-can-apply-retroactively-scholz-2022-09-06/>

Ukraine war forces German parties to cross red lines on energy, defence

REUTERS, September 06, 2022

Russia's invasion of Ukraine and the economic fallout has forced the parties of Germany's coalition government to cross some of their long-held red lines on energy and defence, resulting in a tectonic shift in national policy. So far, voters do not appear to be punishing the ruling parties for sacrificing their sacred cows though. In fact, the Greens, who have had to compromise the most, have surged to second place in polls, just behind the opposition conservatives and ahead of both Chancellor Olaf Scholz's Social Democrats (SPD) and the other junior coalition partner, the pro-business Free Democrats (FDP).

<https://www.reuters.com/world/europe/ukraine-war-forces-german-parties-cross-red-lines-energy-defence-2022-09-06/>

Scholz offers German help with Ukraine reconstruction in call with Zelenskiy

REUTERS, September 07, 2022

Chancellor Olaf Scholz pledged Germany's ongoing support for Ukraine during a phone call with President Volodymyr Zelenskiy, in which the leaders discussed further ways to help the war-torn country, a German government spokesperson said on Wednesday.

<https://www.reuters.com/world/europe/scholz-offers-german-help-with-ukraine-reconstruction-call-with-zelenskiy-2022-09-07/>

German economy ministry defends nuclear power plant reserve plan

REUTERS, September 07, 2022

The German Economy Ministry has defended its plan to keep nuclear power stations available on reserve to ease the gas crunch in a letter to Preussen Elektra, after the E.ON (EONGn.DE) subsidiary cast doubt on the plan's workability. Germany was due to complete its long-planned phase-out of nuclear power by the end of this year, but a plunge in energy deliveries from Russia has prompted the government to keep two of three remaining plants on standby until April to avoid possible power outages.

<https://www.reuters.com/business/energy/german-economy-ministry-defends-nuclear-power-plant-reserve-plan-2022-09-07/>

Germany needs legislative reform to keep nuclear plants on standby - environment ministry

REUTERS, September 07, 2022

German lawmakers must reform existing legislation in order to allow nuclear power stations to remain on standby beyond a planned exit from nuclear power at the end of this year, a spokesperson for the environment ministry said.

<https://www.reuters.com/world/europe/germany-needs-legislative-reform-keep-nuclear-plants-standby-environment-2022-09-07/>

Nuclear deterrence remains crucial to Europe's security – German defense minister

TASS, September 12, 2022

Nuclear deterrence has no alternative in the efforts to maintain security in Europe in the foreseeable future, German Defense Minister Christine Lambrecht said in a keynote speech at an event of the German Society on Foreign Relations (DGAP) on Monday. "The US nuclear deterrence,

which also protects Europe from blackmail will not have a replacement in the foreseeable future," she argued. "For us, Europeans, it must be preserved at all costs. We need to work on this with Washington in NATO," Lambrecht said. "And we must support participation in the alliance's 'nuclear umbrella' with the necessary means and capabilities," she added, recalling Berlin's earlier decision to replace Bundeswehr's current Tornado fighter-bombers with new F-35 planes.

<https://tass.com/defense/1506213>

Wary of Russia, Germany in talks to buy Arrow 3 missile defence from Israel

REUTERS, September 12, 2022

Germany is in talks to buy the Arrow 3 missile defence system from Israel as part of Berlin's efforts to strengthen its armed forces after Russia's invasion of Ukraine, Israeli Prime Minister Yair Lapid said on a visit to the German capital on Monday.

<https://www.reuters.com/world/europe/israel-help-bolster-german-air-defence-scholz-lapid-2022-09-12/>

Wary of Russia, Germany in talks to buy Arrow 3 missile defence from Israel

REUTERS, September 12, 2022

Germany is in talks to buy the Arrow 3 missile defence system from Israel as part of Berlin's efforts to strengthen its armed forces after Russia's invasion of Ukraine, Israeli Prime Minister Yair Lapid said on a visit to the German capital on Monday. Germany has ramped up its military spending after Russia sent troops into Ukraine in February, while shipping aid and heavy weapons to Kyiv as part of an international response.

<https://www.reuters.com/world/europe/israel-help-bolster-german-air-defence-scholz-lapid-2022-09-12/>

Germany says regrettable that Iran has yet to accept nuclear offer

REUTERS, September 12, 2022

Germany expressed regret on Monday that Tehran had not responded positively to European proposals to revive the 2015 nuclear agreement, underlining the dim prospects for a deal soon, as Israel urged action to stop Iran becoming a nuclear armed state. Two days after European powers said they had "serious doubts" about Iran's intentions over the deal, Iran said it was ready to continue cooperating with U.N. nuclear watchdog the International Atomic Energy Agency (IAEA).

<https://www.reuters.com/world/middle-east/iran-urges-iaea-not-yield-israels-pressure-says-ready-cooperate-2022-09-12/>

Germany, EU race to fix energy crisis

REUTERS, September 13, 2022

Germany will step up lending to energy firms at risk of being crushed by soaring gas prices, it said Tuesday, as Europe readied proposals to help households and industry cope with an energy crisis. The European Commission will on Wednesday announce targets to cut electricity consumption and a revenue cap for non-gas fuelled plants. Energy ministers will hold an emergency meeting on Sept. 30 to discuss them.

<https://www.reuters.com/business/energy/germany-eu-race-shore-up-struggling-energy-firms-2022-09-13/>

I. Poland

Poland eyes buying power from Ukraine Khmelnytskyi plant, PM says

REUTERS, September 09, 2022

Poland is interested in buying power from Ukraine's Khmelnytskyi nuclear plant,

Polish Prime Minister Mateusz Morawiecki said in Kyiv on Friday after talks with Ukrainian President Volodymyr Zelenskiy. While in Kyiv, Morawiecki held meetings to discuss the geopolitical situation, the energy market, energy and military security, his spokesman said earlier on Friday. "We could use some electricity from Ukraine. I heard from President Zelenskiy that Ukraine will be soon ready to sell power from Khmelnytskyi and I thanked him for that," Morawiecki told a news briefing he held along with Ukraine's president.

<https://www.reuters.com/world/europe/polish-prime-minister-visit-kyiv-friday-says-govt-spokesman-2022-09-09/>

Poland receives U.S. offer to build nuclear power plants

REUTERS, September 12, 2022

Poland has received an offer from the United States on how they can cooperate on building nuclear energy projects in Poland, the climate ministry said on Monday. Poland plans to build nuclear power plants to reduce its carbon emissions and gradually phase out coal and Warsaw seeks a partner to build 6-9 gigawatts (GW) of nuclear capacity and provide 49% equity financing for the project.

<https://www.reuters.com/world/europe/poland-receives-us-offer-build-nuclear-power-plants-2022-09-12/>

J. Sweden

Polls ahead of Sweden's election for parliament

REUTERS, September 06, 2022

Sweden goes to the polls on Sept. 11 to elect a new parliament in what is expected to be a close-fought race between the ruling left-wing block and the right-wing opposition to form the next government.

<https://www.reuters.com/world/europe/polls-ahead-swedens-election-parliament-2022-09-06/>

NATO Membership May Harm Sweden's Exports, Professor Warns

SPUTNIK International, September 15, 2022

In the words of professor Per Högselius, Swedish industry has benefited from the country's image as a "small, harmless country" with good relations with others, which may change with NATO membership. Russia as Sweden's neighbor has expressed discontent with the western military bloc's expansion, warning Stockholm of repercussions.

<https://sputniknews.com/20220915/nato-membership-may-harm-swedens-exports-professor-warns-1100796120.html>

K. Spain

Spain extends gas price cap amid fears of total Russian gas cut-off

REUTERS, September 06, 2022

Spain will extend a gas price cap to power plants linked to heavy industry amid fears Russia could cut off all gas supply to Europe by land or sea, Spanish Prime Minister Pedro Sanchez said on Tuesday. Sanchez said the government will temporarily change power market regulations relating to the use of heat from industrial processes such as producing tiles, concrete, or fertilisers. "We will make an exception for big (gas) users so that they are temporarily covered by the Iberian mechanism," he said during a speech in Senate, referring to an agreement with the European Union that allows Spain and Portugal to subsidise the cost of natural gas in power generation.

<https://www.reuters.com/business/energy/spain-extends-gas-price-cap-amid-fears-total-russian-gas-cut-off-2022-09-06/>

Spain says power exports to France, Portugal, drive higher gas use

REUTERS, September 12, 2022

A surge in gas use to generate electricity in Spain is primarily due to demand for exports to neighbouring Portugal and France, whose domestic power systems are under strain, the Energy and Environment Ministry in Madrid said on Monday. European Union countries have agreed to use less gas in a bid to shore up stocks of the fuel before winter, when dwindling supplies from Russia linked to its invasion of Ukraine could cause further disruption for industries and households.

<https://www.reuters.com/business/energy/spain-says-power-exports-france-portugal-drive-higher-gas-use-2022-09-12/>

L. Switzerland

Swiss to create hydropower reserve to ensure winter power supply

REUTERS, September 07, 2022

Switzerland will create a hydropower reserve to make sure the Alpine country has enough electricity through the coming winter, the government said on Wednesday. The government said the power supply was currently assured, but interruptions in gas supplies in Europe linked to the war in Ukraine as well as security checks at nuclear power plants in France meant supply could be uncertain this winter. "The (hydropower) reserve will help strengthen Switzerland's energy supply for the critical phase towards the end of winter," the government said in a statement, adding the reserve could be used to generate electricity if needed.

<https://www.reuters.com/business/energy/swiss-create-hydropower-reserve-ensure-winter-power-supply-2022-09-07/>

Switzerland says area near Germany to be proposed for nuclear waste site

REUTERS, September 10, 2022

An area of northern Switzerland near the border with Germany will be proposed as

the site for a planned deep-underground nuclear waste site on which construction is due to start in 2045, the Swiss Federal Office of Energy (BFE) said on Saturday. The so-called deep geological repository for spent nuclear fuel and other radioactive waste has yet to be approved by the government and parliament, a process that will take years.

<https://www.reuters.com/world/europe/switzerland-says-area-near-germany-be-proposed-nuclear-waste-site-2022-09-10/>

Switzerland May Build Radioactive Waste Storage Facility Near German Border

SPUTNIK International, September 11, 2022

Currently, nuclear waste in Switzerland is held in interim storage facilities and at nuclear power plants, with a deep geological repository believed to be the safest solution for storing the material. The Swiss Federal Office of Energy (BFE) has stated that an area of northern Switzerland near the border with Germany might be used for the construction of a nuclear waste storage facility.

<https://sputniknews.com/20220911/switzerland-may-build-radioactive-waste-storage-facility-near-german-border-1100649145.html>

Swiss confirm favoured location for \$21 billion nuclear waste store

REUTERS, September 12, 2022

Switzerland confirmed on Monday that its favoured location for a 20 billion Swiss franc (\$20.94 billion) underground nuclear waste storage site was an area north of Zurich, close to the German border. The company behind the project to store the country's nuclear waste for at least the next 200,000 years, the National Cooperative for the Disposal of Radioactive Waste (NAGRA), proposed northern Laegern for the site, which is due to become operational in 2050.

<https://www.reuters.com/business/energy/swiss-confirm-favoured-location-21-billion-nuclear-waste-store-2022-09-12/>

M. United Kingdom

UK government funding for advanced reactor development

WNN, September 02, 2022

The UK government has announced GBP3.3 million (USD3.8 million) in funding to support the development of advanced nuclear technology. Six projects aimed at developing Advanced Modular Reactors (AMRs) in the UK have been selected to receive funding totalling GBP2.5 million. The GBP3.3 million funding through the Advanced Modular Reactor Research, Development and Demonstration (AMR RD&D) programme - part of the GBP385 million Advanced Nuclear Fund - will support the development of innovative nuclear technology in the UK, such as high temperature gas reactors (HTGRs). It aims to demonstrate HTGR technology by the early 2030s.

<https://www.world-nuclear-news.org/Articles/UK-government-funding-for-advanced-reactor-develop>

British army trains with Swedish and Finnish forces

BBC, September 04, 2022

British troops have taken part in a military exercise with Swedish and Finnish armed forces as the war in Ukraine continues. The Ministry of Defence said Exercise Vigilant Knife would help all three nations' forces be effective in battle. Prime Minister Boris Johnson earlier this year signed a mutual security deal with Sweden and Finland. Defence Secretary Ben Wallace also repeated the UK's support for the two nations' bid to join Nato.

<https://www.bbc.com/news/uk-62781489>

UK government to cap domestic energy prices, Liz Truss announces

The Telegraph, September 08, 2022

British Prime Minister Liz Truss said Thursday that her government will cap domestic energy prices for homes and businesses to ease a cost-of-living crisis that

has left people and businesses across the UK facing a bleak winter. Truss told lawmakers in Parliament that the two-year energy price guarantee means average household bills will be no more than 2,500 pounds (2,872) a year for heating and electricity. Bills had been due to rise to 3,500 pounds (4,000) pounds a year from October, triple the cost of a year ago. Bills are skyrocketing because of Russia's invasion of Ukraine and the economic aftershocks of COVID-19 and Brexit.

<https://www.telegraphindia.com/world/united-kingdom-government-to-cap-domestic-energy-prices-liz-truss-announces/cid/1885371>

IAEA 'satisfied' with AUKUS engagement on submarine plan, report says

REUTERS, September 09, 2022

The U.N. nuclear watchdog is satisfied with the engagement shown so far by the United States, Britain and Australia on their AUKUS alliance's plan to supply Australia with nuclear submarines, a report by the watchdog seen by Reuters showed. So far no party to the nuclear Non-Proliferation Treaty, such as Australia, has a nuclear-powered submarine, other than the five permanent (P5) members of the U.N. Security Council, also known as nuclear-weapon states: the United States, Russia, China, France and Britain.

<https://www.reuters.com/world/iaea-satisfied-with-aukus-engagement-submarine-plan-report-says-2022-09-09/>

N. United States of America

U.S. will never allow Iran to acquire a nuclear weapon, Biden tells Israel's Lapid

REUTERS, September 01, 2022

President Joe Biden told Israeli Prime Minister Yair Lapid on Wednesday the United States will never allow Iran to acquire a nuclear weapon, the White House said, as Tehran seeks stronger

guarantees from Washington for the revival of a nuclear deal with world powers.

<https://www.reuters.com/world/biden-israels-lapid-speak-amid-discussions-possible-iran-nuclear-deal-2022-08-31/>

California passes massive climate and clean energy package, halts closure of state's last nuclear plant

CNN, September 01, 2022

California state lawmakers worked late into Wednesday night to pass an aggressive climate legislation package, including \$54 billion in new spending on clean energy and drought resilience measures, and a bill to stop the planned closure of the state's last nuclear plant. The legislative action comes as California and other Western states are in the grip of an intense heatwave amid a devastating, 22-year drought. And it follows state air regulators' vote to phase out new gas-powered car sales in the state by 2035.

<https://edition.cnn.com/2022/09/01/politics/california-passes-climate-legislation/index.html>

With new China AI chip restrictions, U.S. takes aim at a critical niche

REUTERS, September 02, 2022

The United States beefed up its effort to cut off the flow of advanced technology to China by instructing Nvidia Corp (NVDA.O) and Advanced Micro Devices (AMD.O) to stop sending their flagship artificial intelligence chips there.

<https://www.reuters.com/markets/us/with-new-ai-chip-rules-us-takes-aim-critical-niche-2022-09-01/>

U.S. compels Iran to again release seized U.S. sail drones, U.S. officials say

REUTERS, September 02, 2022

The United States compelled Iran for a second time this week to release U.S. military sail drones that it tried to seize at sea, U.S. officials said on Friday. Iran has

been building up its naval presence in the Red Sea, near the coast of Yemen where Tehran backs the Houthi movement. The incident there, after an earlier one in the Gulf, was the latest reminder of U.S.-Iran military tensions, even as both countries pursue nuclear talks. read more They follow exchanges of fire last week between U.S. troops and Iran-backed groups in Syria.

<https://www.reuters.com/world/iran-says-it-briefly-seizes-unmanned-us-drones-red-sea-2022-09-02/>

Biden administration approves more than \$1.1B in arms sales to Taiwan

CNN, September 02, 2022

The Biden administration has approved more than \$1.1 billion in arms sales to Taiwan, a move likely to further inflame already heightened tensions between Washington and Beijing. The administration on Friday formally notified Congress of the proposed sales, which include up to 60 anti-ship missiles and up to 100 air-to-air missiles. Laura Rosenberger, the White House Senior Director for China and Taiwan, said this is the largest arms sale to Taiwan to date under the Biden administration, and they have "been in direct consultation and conversations with Members of Congress and Taiwan on its defense needs given evolving security circumstances."

<https://edition.cnn.com/2022/09/02/politics/us-taiwan-arms-sales/index.html>

U.S. factory orders drop in July on defense aircraft

REUTERS, September 02, 2022

New orders for U.S.-manufactured goods unexpectedly fell in July, weighed down by a plunge in defense aircraft bookings, but the overall manufacturing industry remains resilient. The Commerce Department said on Friday that factory orders dropped 1.0% in July after increasing 1.8% in June. Economists polled by Reuters had forecast factory orders

would increase 0.2%. Orders increased 13.4% on a year-on-year basis in July.

<https://www.reuters.com/business/aerospace-defense/us-factory-orders-drop-july-defense-aircraft-2022-09-02/>

Pentagon aims to speed arms sales to allies to better compete with China- WSJ

REUTERS, September 03, 2022

The Pentagon has launched a comprehensive push to accelerate sales of U.S. arms to foreign allies, to better compete with China and replenish arsenals of friendly nations that have given military gear to Ukraine, the Wall Street Journal reported on Friday. The Pentagon last month created a task force to examine longstanding inefficiencies in U.S. sales of billions of dollars of weaponry to foreign countries.

<https://www.reuters.com/world/us/pentagon-aims-speed-arms-sales-allies-better-compete-with-china-wsj-2022-09-02/>

Civil companies handed functions of customers in US biodefense programs – top brass

TASS, September 04, 2022

The United States is changing the tactics of conducting research at the Pentagon-controlled biological laboratories in order to put out of harm's way the Defense Threat Reduction Agency (DTRA) of the US Department of Defense, Lieutenant General Igor Kirillov, chief of the Radiation, Chemical and Biological Defense Forces of the Russian Armed Forces, said on Saturday.

<https://tass.com/defense/1502189>

Bombardier CEO sees significant growth of defense jets business

REUTERS, September 06, 2022

Bombardier Inc (BDB.TO) Chief Executive Officer Eric Martel said on Tuesday the company's defense business involving special mission business jets could grow to a possible \$1 billion in annual revenues from

a 'fraction' of it right now. "Today it's a fraction ... and we can see this growing quite significantly to become a billion, maybe even bigger than that," Martel said at Aero Montreal's international aerospace forum.

<https://www.reuters.com/business/aerospace-defense/bombardier-ceo-sees-significant-growth-defense-jets-business-2022-09-06/>

US military working on analysis to shape and support Ukraine's military in long term

CNN, September 07, 2022

The Pentagon is preparing detailed analysis and working out how to support Ukraine's military in the medium and long term, including after the war with Russia has ended, according to three defense officials. The efforts are being led by Chairman of the Joint Chiefs of Staff Gen. Mark Milley and would build on the billions of dollars in military aid the US has given to Ukraine since Russia invaded in February. The process is at an early stage and a senior defense official said it is looking at the "future of Ukrainian forces," aiming to answer key questions about "what makes sense?" and "what do we want Ukraine to start having in the mid and the long term?" in terms of military support. As well as the current conflict, which is expected to be lengthy, the US is looking, at least, at the next five years after the war is over.

<https://edition.cnn.com/2022/09/07/politics/us-military-ukraine-analysis/index.html>

These companies are looking at using rockets to blast cargo across the planet

CNN, September 07, 2022

The companies so far tapped to join the military in exploring ways to bring that idea to fruition include Elon Musk's SpaceX, Jeff Bezos' Blue Origin, and, most recently, Rocket Lab, according to a Tuesday press release. Two other startups, Colorado-based Sierra Space Corporation and the Richard Branson-

backed company Virgin Orbit, have also signed deals. Essentially, the lineup is a who's-who of the commercial "new space" sector — relatively young rocket companies that are already shaking up the business of getting satellites to orbit at cheaper price points.

<https://edition.cnn.com/2022/09/07/tech/military-air-force-rocket-lab-spacex-cargo-program-scn/index.html>

Pentagon halts deliveries of F-35 fighter jets after discovering a component manufactured in China

CNN, September 07, 2022

The Pentagon says it's temporarily stopping deliveries of Lockheed Martin Corp's F-35 aircraft after learning from the manufacturer an alloy made in China was in a component of the stealth fighter jet, violating federal defense acquisition rules. The Pentagon said a magnet containing the alloy used in part of the integrated power package posed no security issue. "We have confirmed that the magnet does not transmit information or harm the integrity of the aircraft and there are no performance, quality, safety, or security risks associated with this issue and flight operations for the F-35 in-service fleet will continue as normal," Defense Department spokesperson Russ Goemaere said.

<https://edition.cnn.com/2022/09/07/politics/f-35-deliveries-halted/index.html>

US soldier kicked out of Army after FBI says he enlisted to become better at killing Black people

CNN, September 07, 2022

A former soldier who prosecutors say claimed he enlisted to become better at killing Black people was kicked out of the Army following an FBI investigation that uncovered ties to White supremacist organizations and Nazi ideology. Killian M. Ryan was arrested August 26 and charged with one count of knowingly making a false statement on his application for a secret security clearance, according to court records. On the same day, he was discharged

from the Army for "serious misconduct," said Lt. Col. Terence Kelley, an Army spokesman.

<https://edition.cnn.com/2022/09/07/politics/army-soldier-kicked-out-fbi-killian-m-ryan/index.html>

US Test Launches Minuteman III Missile to Show Nuclear Force Readiness: Air Force

SPUTNIK International, September 07, 2022

The US military conducted an unarmed test launch of Minuteman III intercontinental ballistic missile (ICBM) from Vandenberg Space Force Base in California to show the readiness of the United States' nuclear arsenal, the space force base said on Wednesday.

<https://sputniknews.com/20220907/us-test-launches-minuteman-iii-missile-to-show-nuclear-force-readiness-air-force-1100491052.html>

Biden wants other 'options' to block Iran nuclear weapons capability if deal fails

REUTERS, September 08, 2022

U.S. President Joe Biden wants to ensure that the United States has "other available options" to ensure that Iran does not achieve nuclear weapons capability, if efforts to revive the 2015 Iran nuclear deal fail, a White House spokesperson said. National security spokesman John Kirby said Washington would remain active in pushing for reimplementing of the agreement, but its patience was "not eternal."

<https://www.reuters.com/world/biden-wants-other-options-block-iran-nuclear-weapons-capability-if-deal-fails-2022-09-08/>

U.S. targets firms over Iranian drone production, shipment to Russia

REUTERS, September 08, 2022

The United States on Thursday imposed sanctions on an Iranian company it

accused of coordinating military flights to transport Iranian drones to Russia and three other companies it said were involved in the production of Iranian drones. The United States accuses Iran of supplying drones to Russia for use in its war in Ukraine, which Tehran has denied. The U.S. Treasury Department in a statement said it designated Tehran-based Safiran Airport Services, accusing it of coordinating Russian military flights between Iran and Russia, including those associated with transporting drones, personnel and related equipment.

<https://www.reuters.com/world/us-targets-firms-it-says-produce-iranian-drones-shipment-russia-2022-09-08/>

Pentagon sees 'slow but meaningful' Ukrainian progress on battlefield

REUTERS, September 08, 2022

Ukrainian forces are making "slow but meaningful progress" on the battlefield and are currently doing better in the south than Russia, a senior Pentagon official said on Wednesday. "It is early days. I think the Ukrainians are making slow but meaningful progress. And we'll see how things pan out," Under Secretary of Defense for Policy Colin Kahl told an event hosted by Defense News. "But I certainly think things are going better on the Ukrainian side right now in the south than is true on the Russian side."

<https://www.reuters.com/world/europe/pentagon-sees-slow-meaningful-ukrainian-progress-battlefield-2022-09-07/>

Blinken makes unannounced trip to Ukraine, will pledge \$2.6 billion in security assistance to region

CNBC, September 08, 2022

Secretary of State Antony Blinken arrived in Ukraine on Thursday for an undisclosed trip, his third visit to the country since Russia launched its invasion in late February. He landed in the country after an overnight flight and met with his counterpart, Foreign Minister Dmytro Kuleba, just hours after Ukraine's military chief publicly warned of

the threat of Russia using nuclear weapons in the conflict.

<https://www.cnn.com/2022/09/08/blinken-makes-unannounced-trip-to-ukraine-will-pledge-2point6-billion-in-security-assistance-to-region.html?&qsearchterm=nuclear>

Blinken flies in to rally Western support for Ukraine war

BBC, September 08, 2022

President Joe Biden wants to end America's "forever wars", but he is pumping billions of dollars into one that could grind on for a long time. After six months Russia's invasion of Ukraine is entering a challenging new phase. Europe is facing a hard winter of high prices and fuel shortages because of the fallout from sanctions against Moscow and President Vladimir Putin's suspension of Russian gas supplies. Meanwhile, Ukraine has launched a counteroffensive in the south of the country to try to break a stalemate on the battlefield and convince struggling allies it's worth staying the course.

<https://www.bbc.com/news/world-europe-62841392>

US approves \$2.6bn in aid for Ukraine and allies

BBC, September 08, 2022

The US has approved nearly \$2.7bn (£2.3bn) in new aid for Ukraine and allies, including \$675m in weapons for Ukraine as it battles Russia. Defence Secretary Lloyd Austin announced the arms package at a meeting with dozens of fellow ministers at the US air base in Ramstein, Germany. The aid includes howitzers, munitions, Humvee vehicles, armoured ambulances and anti-tank systems. The US has already pledged about \$13bn in military aid for Ukraine. The Biden administration said on Thursday it had earmarked \$2bn in long-term assistance in the form of investments to bolster the security of Ukraine and 18 of its neighbours, including both Nato

members and non-members at risk of future Russian aggression.

<https://www.bbc.com/news/world-europe-62832881>

Pentagon Quietly Deployed Deadliest Artillery Shell in US's Inventory to Ukraine: Report

SPUTNIK International, September 08, 2022

Moscow, officials from the Donbass republics, and even the regional administrations of Ukrainian territories liberated by Russian forces have repeatedly charged Kiev with the use of its Western-sourced artillery systems to indiscriminately target civilian infrastructure. The Pentagon has committed \$92 million to replenish the US military's stocks of the M982 Excalibur, a 155mm artillery shell with an effective firing range of up to 57 km, Bloomberg has reported, citing a DoD accounting document.

<https://sputniknews.com/20220908/pentagon-quietly-deployed-deadliest-artillery-shell-in-uss-inventory-to-ukraine-report-1100551504.html>

DPRK's New Nuclear Doctrine is 'Cheapest, Fastest' Way to Get Deterrent US Will Take Seriously: Prof

SPUTNIK International, September 08, 2022

The People's Democratic Republic of Korea, better known in the West as North Korea, passed a new law on Friday updating its military doctrine and officially declaring the country to be a nuclear state. The law's passage coincided with the 74th anniversary of the DPRK's founding. Observers say North Korea's new law 'On the Policy of Nuclear Force of the DPRK' has two purposes: to demonstrate that Pyongyang is serious about a defense doctrine centered around its strategic deterrent, and to "clarify" to the Biden administration and Seoul what actions the socialist nation will take if threatened.

<https://sputniknews.com/20220909/dprks-new-nuclear-doctrine-is-cheapest-fastest-way-to-get>

[deterrent-us-will-take-seriously-prof-1100602477.html](https://sputniknews.com/20220909/us-policy-unchanged-after-dprk-declares-itself-nuclear-weapons-state-white-house-says-1100610971.html)

US Policy Unchanged After DPRK Declares Itself Nuclear Weapons State, White House Says

SPUTNIK International, September 09, 2022

The United States' policy toward North Korea has not changed after the latter declared itself a nuclear weapons state and Washington will continue to seek diplomatic solution to achieve the goal of demilitarizing the Korean Peninsula, White House spokesperson Karine Jean-Pierre said on Friday. On Wednesday, North Korea's Supreme People's Assembly adopted a decree on Nuclear Weapons Policy that legitimizes the possession of nuclear weapons by the country's leader, who solely has the right to make any decision concerning the use of the nuclear arsenal. During the session, North Korea's leader Kim Jong Un said no sanctions will make Pyongyang give up its nuclear weapons.

<https://sputniknews.com/20220909/us-policy-unchanged-after-dprk-declares-itself-nuclear-weapons-state-white-house-says-1100610971.html>

Zelenskiy to Appeal Directly to U.S. Defense Companies

US News, September 09, 2022

Ukrainian President Volodymyr Zelenskiy is scheduled to speak to U.S. arms makers and military leaders on Sept. 21, when he is expected to make an appeal for more weapons for his country's defense against Russia, according to an advance notice of the speech seen by Reuters. Zelenskiy was set to speak by video link before a conference hosted by the National Defense Industrial Association in Austin, Texas, in his first-ever speech to the U.S. defense industry. Oleksii Reznikov, Ukraine's minister of defense, was also slated to appear at the Future Force Capabilities conference and appeal for support for the

country's fight against Russia's invasion, now more than six months on.

<https://www.usnews.com/news/world/articles/2022-09-09/zelenskiy-to-appeal-directly-to-u-s-defense-companies>

U.S. Army's Pacific commander wants to keep rocket launchers at frontline Japanese base

REUTERS, September 09, 2022

The U.S. Army's Pacific commander, General Charles Flynn, said he is in no rush to withdraw rocket launchers and other equipment from a Japanese army base at the edge of the East China Sea even after the joint training they were used in ended. "Some of the equipment we are just going to leave here" until the next joint drills, he told Reuters on a visit on Thursday to the Japanese Ground Self Defense Force base on Amami Oshima, part of an island chain stretching toward Taiwan.

<https://www.reuters.com/world/us-armys-pacific-commander-wants-keep-rocket-launchers-frontline-japanese-base-2022-09-09/>

US sanctions Iranian spy agency for alleged hacking campaigns against US and allies

CNN, September 09, 2022

The US Treasury Department on Friday sanctioned Iran's Ministry of Intelligence and Security and its leader for allegedly conducting various hacking campaigns against the US government and its allies, including a July cyberattack that disrupted Albanian government services. The Treasury accused the Iranian spy agency and Esmail Khatib of overseeing "several networks" of hackers involved in cyber espionage and ransomware attacks in "support of Iran's political goals." It's the latest attempt by US officials to curb the impact of Iran's hacking, which, according to analysts, Tehran sees as an asymmetric tool for projecting power and pursuing political goals.

<https://edition.cnn.com/2022/09/09/politics/iran->

[hacking-intelligence-ministry-treasury-sanctions/index.html](https://www.usnews.com/news/world/articles/2022-09-09/zelenskiy-to-appeal-directly-to-u-s-defense-companies)

Blinken calls Iran's latest response to nuclear deal proposal a 'step backward'

CNN, September 12, 2022

Iran has taken "a step backward" with its latest response to a nuclear deal proposal, US Secretary of State Antony Blinken said Monday, calling a near-term agreement "unlikely." "What we've seen over the last week or so in Iran's response to the proposal put forward by the European Union is clearly a step backward and makes prospects for an agreement in the near-term, I would say, unlikely," Blinken told reporters, speaking from Mexico City, where he met with Mexican President Andrés Manuel López Obrador.

<https://edition.cnn.com/2022/09/12/politics/iran-nuclear-deal-blinken/index.html>

Michigan governor calls for nuclear plant to reopen

WNN, September 12, 2022

Michigan Governor Gretchen Whitmer pledged the state's support for Holtec International's application for a federal grant to save the Palisades nuclear power plant which closed in May. Entergy's closure of the 805 MWe pressurised water reactor after more than 50 years of operation was timed to coincide with the expiration of a 15-year power purchase agreement with Consumers Energy. In June, Palisades was purchased by Holtec International for decommissioning. According to Whitmer, Holtec submitted an application for funding under the Department of Energy's Civil Nuclear Credit (CNC) programme on 5 July, just days after completing its acquisition of the plant.

<https://www.world-nuclear-news.org/Articles/Michigan-governor-calls-for-nuclear-plant-to-reopen>

US State Dept. Denies Reports Special Envoy to Iran Malley Sidelined on JCPOA Negotiations

SPUTNIK International, September 12, 2022

US Special Representative to Iran Rob Malley is still leading the negotiations on the return to compliance with the Iran nuclear agreement, formally known as the Joint Comprehensive Plan of Action (JCPOA), State Department spokesperson Ned Price said on Tuesday. The Times of Israel reported on Monday, citing a senior Israeli official, that Malley is no longer a significant player in the negotiations on reviving the JCPOA.

<https://sputniknews.com/20220913/us-state-dept-denies-reports-special-envoy-to-iran-malley-sidelined-on-jcpoa-negotiations-1100740193.html>

Artificial intelligence is playing a bigger role in cybersecurity, but the bad guys may benefit the most

CNBC, September 13, 2022

The rise in cyberattacks is helping to fuel growth in the market for AI-based security products. The global market for AI-based cybersecurity products is estimated to reach \$133.8 billion by 2030, up from \$14.9 billion last year. Hackers are taking advantage, too: AI-generated phishing emails have higher rates of being opened than manually crafted phishing emails.

<https://www.cnb.com/2022/09/13/ai-has-bigger-role-in-cybersecurity-but-hackers-may-benefit-the-most.html?&qsearchterm=defense>

California lawmakers vote to extend Diablo Canyon nuclear plant operations as state battles energy emergency

CNBC, September 13, 2022

In a late night, last-minute vote, California lawmakers approved a measure to give the state the option to keep its last remaining nuclear power plant operating for another five years, contingent on, among other things, the utility operating the power plant getting access to federal funding. The

decision is a reversal of a previous decision to shut the power plant down and comes amid an energy crunch in the state.

<https://www.cnb.com/2022/09/01/california-lawmakers-vote-to-keep-diablo-canyon-nuclear-plant-open.html?&qsearchterm=nuclear>

Defense team unexpectedly rests its case in death penalty trial of Parkland school shooter

CNN, September 14, 2022

The defense team in the trial of Parkland, Florida, school shooter Nikolas Cruz abruptly rested its case Wednesday, leading the judge to admonish his attorneys for what she described as a "level of unprofessionalism" she had never before experienced. The defense team planned to call 80 witnesses, lead defense attorney Melisa McNeill said in opening the case, but by Wednesday it had called just 26. So, its move appeared to come as a shock to the judge and prosecutors, who'd arrived in court expecting Cruz's defense team to call its first witness of the day.

<https://edition.cnn.com/2022/09/14/us/nikolas-cruz-parkland-shooting-defense-rests/index.html>

Congressional commission recommends the US Navy rename two ships with names tied to the Confederacy

CNN, September 14, 2022

The US Congressional Naming Commission is recommending the US Navy rename two ships whose names have ties to the Confederacy: the USS Chancellorsville and the USNS Maury, commissioners said Tuesday. The USS Chancellorsville, a US Navy Ticonderoga-class guided-missile cruiser, was named for the battle of Chancellorsville in 1863 during the American Civil War. The USNS Maury, a Pathfinder-class oceanographic survey ship, was named for Matthew Fontaine Maury, who served in the Confederacy. The commission, an independent panel, will not provide name

recommendations for either of the ships but will leave that to the Navy, the commissioners said during a media roundtable Tuesday.

<https://edition.cnn.com/2022/09/13/politics/us-navy-ships-rename-uss-chancellorsville-usns-maury/index.html>

About 80% of U.S. coal plant sites suitable to host nuclear reactors - U.S.

REUTERS, September 14, 2022

As many as 157 retired coal plants and 237 operating coal plant sites across the U.S. could be converted to nuclear power and help the country reach its net-zero emissions goals by 2050, the U.S. Department of Energy said in a report on Tuesday. The report showed that among the retired or active plant locations, 80% was suited to host advanced reactors smaller than the gigawatt scale. U.S. carbon emissions from the power sector have plummeted in recent years as utilities retire old coal-fired power plants in favor of natural gas, solar and wind power, a shift driven by decreasing prices for these sources and state and federal incentives for renewable energy.

<https://www.reuters.com/world/us/about-80-us-coal-plant-sites-suitable-host-nuclear-reactors-us-doe-report-2022-09-13/>

Hurdles ahead for saving Michigan nuclear power plant

REUTERS, September 14, 2022

The governor of Michigan said last week she wants a nuclear power plant to reopen to save jobs and help curb climate change, but the company that bought the plant said there are many hurdles to save the facility. ClearView Energy Partners, a non-partisan research group, said the process for saving the plant is "murky at best." Holtec International bought the 805 megawatt Palisades plant in May to decommission the facility, a long and costly process.

<https://www.reuters.com/world/us/hurdles-ahead-saving-michigan-nuclear-power-plant-2022-09-13/>

White House unveils \$2 billion biotech spending plan ahead of industry summit

REUTERS, September 14, 2022

The White House released new details on Wednesday on how it plans to invest more than \$2 billion in the U.S. biotechnology sector as it hosts a meeting of government leaders to discuss the emerging industry. President Joe Biden on Monday signed an executive order that launched a national biotechnology and bio-manufacturing initiative, and on Wednesday the White House will hold a summit with top government officials and department heads to discuss plans on how to administer the order and allocate the money.

<https://www.reuters.com/business/healthcare-pharmaceuticals/white-house-unveils-2-billion-biotech-spending-plan-ahead-industry-summit-2022-09-14/>

U.S. to withhold \$130 mln of military aid to Egypt over human rights -official

REUTERS, September 14, 2022

The Biden administration has decided to withhold \$130 million of foreign military aid to Egypt over its failure to fulfill human rights conditions, U.S. officials said on Wednesday, but allowed some funds to go through due to its determination that Cairo has made progress on political detentions. U.S. Secretary of State Antony Blinken has determined that Cairo, by releasing hundreds of jailed individuals, had made some progress on political detentions and due process, the officials said. Rights groups have pushed for withholding all of a \$300 million portion of aid to Egypt placed under conditions by the U.S. Congress.

<https://www.reuters.com/world/us-withhold-130-mln-military-aid-egypt-over-human-rights-official-2022-09-14/>

U.S. Senate panel advances bill to boost support for Taiwan

REUTERS, September 14, 2022

A U.S. Senate committee on Wednesday approved legislation that would significantly enhance U.S. military support for Taiwan, including provisions for billions of dollars in additional security assistance, as China increases military pressure on the democratically governed island. The Senate Foreign Relations Committee backed the Taiwan Policy Act of 2022 by 17-5, despite concerns about the bill in U.S. President Joe Biden's administration and anger about the measure from Beijing.

<https://www.reuters.com/world/asia-pacific/us-senate-panel-advances-sweeping-taiwan-security-bill-2022-09-14/>

US study assesses potential for coal-to-nuclear conversion

WNN, September 14, 2022

Hundreds of coal power plant sites across the USA could be converted to nuclear plant sites, providing huge decarbonisation gains as well as bringing tangible economic, employment and environmental benefits to the communities where those plants are located, a new US Department of Energy (DOE) study has found. A coal-to-nuclear (C2N) transition - siting a nuclear reactor at the site of a recently retired coal power plant - could help increase US nuclear capacity to more than 350 GWe, Investigating Benefits and Challenges of Converting Retiring Coal Plants into Nuclear Plants found. The USA's current nuclear fleet has a combined capacity of 95 GWe.

<https://www.world-nuclear-news.org/Articles/US-study-assesses-potential-for-coal-to-nuclear-co>

US to Be Dragged Into Conflict With Russia if Kiev Gets Long Range Missiles – Antonov

SPUTNIK International, September 14, 2022

Russia launched its special military operation in Ukraine on 24 February, after

the Donetsk and Lugansk People's Republics (DPR and LPR) appealed for help in defending themselves against Ukrainian provocations. Russian armed forces and the allied militia groups of the people's republics of Donetsk and Lugansk continue their special military operation in Ukraine.

<https://sputniknews.com/20220914/live-updates-four-civilians-killed-in-ukrainian-forces-shelling-of-donetsk-republic-1100745142.html>

Japan, US to Expand Cooperation on Hypersonic Missile Defense Systems - Defense Ministry

SPUTNIK International, September 15, 2022

Japanese Defense Minister Yasukazu Hamada and US Secretary of Defense Lloyd J. Austin on Wednesday agreed to expand cooperation in developing equipment and technologies to counter hypersonic weapons and to begin joint research in this area, Japan's Defense Ministry said.

<https://sputniknews.com/20220915/japan-us-to-expand-cooperation-on-hypersonic-missile-defense-systems-defense-ministry-1100791890.html>

US Military Encourages Soldiers to Sign Up for Food Stamps as Inflation Runs Rampant

SPUTNIK International, September 15, 2022

On this episode of Fault Lines hosts Jamarl Thomas and Manila Chan discuss many different topics touching on the Russian special military operation in Ukraine, the new data on inflation in the US, and North Korea declaring itself a nuclear state.

<https://sputniknews.com/20220915/us-military-encourages-soldiers-to-sign-up-for-food-stamps-as-inflation-runs-rampant-1100790994.html>

US Defense Officials Discuss Defense Posture, Technology With ROK Counterparts - Pentagon

SPUTNIK International, September 15, 2022

Senior US defense officials met with South Korean Vice Minister of National Defense Shin Beomchul to discuss the defense posture on the Korean Peninsula and ways to deepen science and technology cooperation, the Pentagon said in a press release.

<https://sputniknews.com/20220915/us-defense-officials-discuss-defense-posture-technology-with-rok-counterparts-pentagon-1100835271.html>

U.S. sues to block \$4.3 bln lock deal between Assa Abloy and U.S. rival

REUTERS, September 15, 2022

The U.S. Justice Department has sued to block a \$4.3-billion proposed deal by Assa Abloy AB (ASSAb.ST) to buy a division of Spectrum Brands Holdings Inc (SPB.N) that makes residential door hardware, the department said in a statement on Thursday which said the deal could lead to higher prices for consumers. The department said that a merger of Assa Abloy and Spectrum's Hardware and Home Improvement division could mean higher prices and reduced innovation for homeowners who want to buy premium mechanical door hardware or smart locks.

<https://www.reuters.com/markets/deals/us-sues-block-43-bln-deal-between-assa-abloy-us-rival-2022-09-15/>

US sees the aid its given Ukraine as effective, likely won't provide longer-range systems for now

CNN, September 15, 2022

The Biden administration is unlikely to significantly change its approach to helping Ukraine fight Russia, sources tell CNN, and is rebuffing some Ukrainian weapons requests for now – even as Ukrainian forces have made sweeping gains and recaptured thousands of miles of territory from Russia in recent days. US officials broadly view Ukraine's recent momentum as evidence that the types of weapons and

intelligence that the West has been providing to Ukraine in recent months has been effective. And some caution that it's too early to call Ukraine's rapid progress in recent days a turning point in the war, warning that Russia is far from a spent force militarily.

<https://edition.cnn.com/2022/09/15/politics/us-ukraine-aid-weapons/index.html>

West Asia

O. Iran

Iran minister terms air defense as self-sufficient, independent

Islamic Republic News Agency, September 1, 2022

Iran's Minister of Interior Ahmad Vahidi said on Thursday that the Islamic Republic of Iran is independent and self-sufficient enjoying the latest technology and equipment in air defense. On the occasion of the National Day of Air Defense, Vahidi made remarks at the Shahid Nojeh Air Base, Hamedan. Vahidi said that Iran's capability, authority, and self-sufficiency in the field of defense and military equipment are such that the air defense complex has the most sophisticated military and radar equipment. Pointing to the advanced technologies in Iran's Army, he highlighted that to pursue drones, we need modern and up-to-date equipment in this field, and Iranian-made radars are among the best equipment in the world where long-range equipment works with these radars so that they can easily detect and intercept enemy jet fighters.

<https://en.irna.ir/news/84874888/Iran-minister-terms-air-defense-as-self-sufficient-independent>

Iran says sees no limit for expansion of military cooperation with Pakistan

Islamic Republic News Agency, September 1, 2022

Chief of Staff of the Iranian Armed Forces Major General Mohammad Bagheri said on Thursday that with the removal of a UN arms embargo on Iran, the country has no limit for promotion of military

cooperation with Pakistan anymore. General Bagheri made the remarks during a meeting in Tehran with Air Chief Marshal Zaheer Ahmad Babar, the commander of Pakistani Air Force.

He said he was saddened by the news of the recent floods in Pakistan, voicing Iran's readiness to do whatever possible to alleviate the problems of the flood-hit people. The general noted that Iran regards Pakistan's security as its own and will spare no effort to help the promotion of security in Pakistan.

<https://en.irna.ir/news/84875088/Iran-says-sees-no-limit-for-expansion-of-military-cooperation>

Washington calls Iran's response "not constructive", without even reading it

Islamic Republic News Agency, September 2, 2022

The US, which is believed by experts to be responsible for the current situation of the nuclear deal by its unwise withdrawal, has called Iran's responses to the latest effort to revive the 2015 accord "not constructive," while an official of US Department of State has said that they have not even read it yet. According to "The Times", Vedant Patel, a department spokesperson, didn't elaborate on the remarks Thursday night but added that US officials were still looking at the response, which Iran had submitted to the European Union. The EU has drafted a proposal to rescue the agreement, abandoned by President Donald Trump in 2018, and energy traders have been closely watching to see whether there will be a breakthrough.

<https://en.irna.ir/news/84875687/Washington-calls-Iran-s-response-not-constructive-without>

Logic of Iran's response to agreement draft not changed; ball in US court

Islamic Republic News Agency, September 2, 2022

Western officials are insisting on the continuation of the blame game while Iran's

logic for reaching a final agreement with the United States as the culprit of the current situation and the uncommitted European parties has not changed; and the ball is in the US's court. From the beginning of the nuclear talks, the Islamic Republic of Iran laid down the condition that the sanctions should be effectively and sustainably removed in a way that the accord would provide economic benefits for the people and emphasized that political claims about safeguard issues should be closed.

<https://en.irna.ir/news/84875837/Logic-of-Iran-s-response-to-agreement-draft-not-changed-ball>

Iranian Navy Impounds 2 US Sea Drones in Red Sea

Fars News, 03 September, 2022

The destroyer encountered the "data collecting" vessels during a routine operation aimed at securing shipping routes and confronting piracy and maritime terrorism, the Iranian Navy announced in a statement. The Iranian warship then called on the American authorities in charge of the sail drones to change the vessels' direction "in order to prevent accidents and naval collisions", the statement added. The destroyer, however, encountered the drones again, with its calls on the US officials to control the vessels going unheeded on several occasions.

<https://www.farsnews.ir/en/news/14010612000362/Iranian-Navy-Impnds-2-US-Sea-Drnes-in-Red-Sea>

US confirms its unmanned vessels stopped by Iranian military forces

Islamic Republic News Agency, September 3, 2022

The United States on Friday confirmed that two of its navy survey vessels were briefly stopped and then freed by the Iranian military forces. Timothy Hawkins, the spokesman for the US 5th Navy Fleet in the Middle East on Friday in an interview with the Associate Press confirmed the news, refraining from

offering any further details about the incidence. The Islamic Republic of Iran Navy had earlier presented the details about stopping US Navy unmanned vessels.

<https://en.irna.ir/news/84876004/US-confirms-its-unmanned-vessels-stopped-by-Iranian-military>

American source: Deal with Iran is best option

Islamic Republic News Agency, September 3, 2022

An unknown source from the United States Department of State told the Saudi-based Al-Arabiya Network on Saturday that the Biden administration sees an agreement with Iran as the best possible option. In an interview by the Saudi-based Al-Arabiya Network, an unknown source of the United States Department of State noted that the US government sees an agreement with Iran as the best possible option. The source added that the US emphasizes cooperation with Iran to realize and probe the effects of uranium on its nuclear facilities. Earlier, Iran's Foreign Ministry Spokesman Nasser Kanaani said that Iran is studying the US responses received via the EU coordinator.

<https://en.irna.ir/news/84876792/American-source-Deal-with-Iran-is-best-option>

Iran's near weapons-grade uranium stock grows, probe stuck -IAEA reports

The Jerusalem Post, 05 September 2022

Iran's stock of uranium enriched to up to 60%, close to weapons-grade, has grown to well above the amount that by one definition is enough, if enriched further, for a nuclear bomb, a quarterly report by the UN atomic watchdog showed on Wednesday. Iran's uranium enriched to up to 60% and in the form of uranium hexafluoride, the gas that centrifuges enrich, is estimated to have grown by 12.5 kg to 55.6 kg since the last quarterly International Atomic Energy Agency report issued on May 30, the IAEA report to member states seen by Reuters said.

<https://www.jpost.com/breaking-news/article-716555>

Iran's IRGC unveils new combat vessel

Islamic Republic News Agency, September 5, 2022

Iran's IRGC deployed a patrol-combat vessel, namely Martyr Soleimani, as well as Martyr Rouhi and Martyr Dara missile-capable speedboats. The vessel was deployed by the IRGC Navy in a ceremony attended by Chief of Staff of the Iranian Armed Forces Major General Mohammad Baqeri, Chief commander of the IRGC Hossein Salaami, Commander of the IRGC Navy Rear Admiral Alireza Tangsiri, and a number of military and officials in Bandar Abbas, southern Iran, on Monday.

<https://en.irna.ir/news/84878752/Iran-s-IRGC-unveils-new-combat-vessel>

Iran to consider "other options" if West delays nuclear agreement

AZERNEWS, 06 September, 2022

A senior Iranian lawmaker on Sunday urged Western countries to refrain from delays in reaching a nuclear agreement, warning that otherwise, Iran would consider "other options", Trend reports citing Xinhua. Mahmoud Abbaszadeh Meshkini, a member of the Iranian Parliament's National Security and Foreign Policy Commission, told the official IRNA news agency that a win-win agreement is important for securing Iran's national interests. "The Westerners need negotiations more than Iran ... if the Western side does not make an agreement, we have other options on the table, and Iran's hands are not empty in this regard," he noted.

Iran to consider "other options" if West delays nuclear agreement (azernews.az)

Iran to increase nuclear power production

Fars News, 06 September, 2022

The Iranian government is planning to increase the share of nuclear power generation to 20 percent, said the head of the Atomic Energy Organization of Iran

(AEOI) Mohammad Eslami, Trend citing Mehr News Agency. Various strategic documents were drafted in the past year that includes offering different services for the development of nuclear power plants and the plan is to raise the share of nuclear electricity production, he said. He underlined the necessity to generate financial resources from nuclear energy via innovative technologies. The government agenda is to build nuclear power plants and generate 10,000 megawatts of nuclear electricity, he noted.

Iran to increase nuclear power production (azernews.az)

Other side in talks should put aside excessive demands: Gov't spox

Islamic Republic News Agency, September 6, 2022

The spokesman for the Iranian Government said here on Tuesday that the talks on the agreement continue and the other side should let go of its excessive demands as the path taken has been constructive. The Islamic Republic has not left and will not leave the talks, Ali Bahadori Jahromi told reporters in Tehran. About the issues followed during the talks, the spokesman said they include giving necessary guarantees, removing the sanctions, and putting aside political claims about Safeguards Agreements. Bahadori Jahromi also announced on Tuesday that efforts have been made to facilitate Arbaeen pilgrims' visit to Iraq through land borders and flights. Iran's six land borders with Iraq are active for this purpose, the spokesman told reporters in Tehran.

<https://en.irna.ir/news/84879617/Other-side-in-talks-should-put-aside-excessive-demands-Gov-t>

Iranian scientists produce electronic clothes using conductive nano fabric

Islamic Republic News Agency, September 6, 2022

Researchers of a knowledge-based company in Iran have produced a sort of conductive

nano fabric with anti-radiation properties that can be used in electronic clothes. Bahareh Moazzenchi, the CEO of this Iranian technology-based company, said that this product can be used in medicine and sports fields. She added that currently, these fabrics are being piloted by an orthopedic equipment company, and since this fabric is electrically conductive, the product can be used for producing wearable electronic clothing.

<https://en.irna.ir/news/84879692/Iranian-scientists-produce-electronic-clothes-using-conductive>

Iran offers completion of gas pipeline project with Pakistan: APP

Islamic Republic News Agency, September 7, 2022

Iranian Ambassador Mohammad Ali Hosseini on Tuesday offered his government's support to complete Iran-Pakistan (IP) Gas Pipeline project and hinted to extend cooperation in other fields of mutual interest. In an interview with the Associated Press of Pakistan (APP), Hosseini said that Iran was willing to further strengthen mutual trade cooperation; completion of energy projects, especially the IP gas pipeline; progress in the establishment of border markets; finalization of a free trade agreement, and collaboration on major ports and security areas, APP reported. He added that there were no sanctions on the export of gas from Iran and Pakistan could take full benefit of it to fulfill its energy needs. The IP gas pipeline was a key project in that regard and both countries realized its importance. The ambassador said Iran was already exporting 100 megawatts of electricity to Pakistan for meeting the power needs (of its bordering areas) and it would be increased in the future.

<https://en.irna.ir/news/84881079/Iran-offers-completion-of-gas-pipeline-project-with-Pakistan>

Iran Rejects IAEA's Politically-Motivated Report, Says Peaceful N. Program Fully Transparent

Fars News, 08 September, 2022

The official added some international media are distorting and sometimes interpreting the phrases, which the IAEA deliberately uses in a vague way and are full of unnecessary details and ambiguities, to fuel a hallow media campaign aimed at insinuating that the country's nuclear program is not peaceful. "Iran's peaceful nuclear program has been the most transparent so far," the spokesperson noted.

<https://www.farsnews.ir/en/news/14010617000356/Iran-Rejecs-IAEA's-Pliically-Mivaed-Repr-Says-Peacefl-N-Prgram-Flly>

Iran Fully Self-Sufficient in Drone Production

Fars News, 08 September, 2022

Brigadier General Vahedi said that Iran has reached 100% self-sufficiency in the field of producing UAV and will continue its path in this field vigorously. He added that relying upon the assistance of the God Almighty, Iranian Air Force has achieved salient progress in the field of manufacturing two sophisticated drones named "Kaman 12" and "Kaman 22". "Iran is among the top powers in the region in the field of manufacturing advanced UAVs and this ability is increasing day by day," the commander stated.

<https://www.farsnews.ir/en/news/14010617000548/Cmmander-Iran-Flly-Self-Sfficien-in-Drne-Prdcin>

Iranian Army Ground Force Stages Military Drills

Fars News, 08 September, 2022

The Iranian Army's Ground Force began the maneuvers in Central Iran on Wednesday night, featuring overnight heliborne operations joined by teams of rapid reaction forces and helicopters in the central part of the country. Spokesperson Second Brigadier General Amir Cheshak announced that the military drills seek to assess and enhance the

level of readiness of the Ground Force's units in the face of "new threats". "The military drills seek to evaluate and increase the level of readiness of the Ground Force's [various] units in the face of new threats," he said.

<https://www.farsnews.ir/en/news/14010617000254/Iranian-Army-Grnd-Frce-Sages-Miliary-Drills>

Iran Overpowers Enemies Using AI

Fars News, 08 September, 2022

Brigadier General Hajizadeh noted that Iran holds the "upper hand" in the field of aerospace and is now a strong and formidable player in the region. He hastened to add that due to artificial intelligence, Iran has managed to defeat the enemy "at a distance of more than a thousand kilometers away". "We have attained tremendous success in the field of cooperation between universities and the defense sector. We can definitely declare that we have turned from an importer of barbed wire into an exporter of technology," the commander of the IRGC's Aerospace Division noted.

<https://www.farsnews.ir/en/news/14010617000114/IRGC-Cmmander-Iran-Overpwrs-Enemies-Using-AI>

Iran's Envoy Urges World Leaders to Halt Nuclear Tests

Fars News, 08 September, 2022

Ershadi made the remarks on Wednesday while addressing a meeting of the UN General Assembly on the occasion of the International Day against Nuclear Tests. "Pending the achievement of this goal [stopping nuclear tests], besides the implementation of these moratoriums by the NWSs (nuclear weapons states), consequently, should be replaced by a legally binding instrument to effectively prevent such tests," she said. She stressed the importance of the immediate implementation of Article VI of the Nuclear Non-Proliferation Treaty (NPT) as a "meaningful" step toward relinquishing

the world from any threat of nuclear weapons, reaffirming it as the sole responsibility of the NWSs.

<https://www.farsnews.ir/en/news/14010617000424/Iran's-Envy-Urges-Wrld-Leaders-Hal-Nclear-Tess>

Iran: Moratoria to stop nuclear tests does not substitute legally binding obligation

Islamic Republic News Agency, September 8, 2022

Iran's Ambassador and Deputy Permanent Representative to the United Nations Zahra Ershadi said that moratoria to stop nuclear tests does not substitute a legally binding obligation. Ershadi was speaking at the High-level Plenary Meeting of the United Nations General Assembly on the International Day against Nuclear Tests. She underlined that it is noteworthy that the moratoria to stop nuclear tests does not substitute a legally binding obligation. Therefore, pending the achievement of this goal, besides the implementation of these moratoriums by the NWSs, consequently, should be replaced by a legally binding instrument to effectively prevent such tests.

<https://en.irna.ir/news/84881621/Iran-Moratoria-to-stop-nuclear-tests-does-not-substitute-legally>

Iranian Army Ground Force Test-Fires Strategic 'Fath 360' Missile

Fars News, 09 September, 2022

"The missile, codenamed Fath (Conquest) 360, was launched in the second stage of Eghtedar (Authority) 1401 drills, which are underway in the Nasrabad region of the province," Iranian Army Ground Force Deputy Commander Brigadier General Nozar Nemati said. "The Iranian Army units also fired volleys of indigenous Fajr-5 (Dawn-5) missiles. The missile reportedly has a range of 75 kilometers (50 miles) and can carry 175-kilogram fragmentation warheads with 90 kilograms of high explosives," he added.

<https://www.farsnews.ir/en/news/14010618000205/Iranian-Army-Grnd-Frce-Tes-Fires-Sraegic-'Fah-360'-Missile>

US blacklists 1 Iranian individual, 4 companies for fear of development in drone industry

Islamic Republic News Agency, September 9, 2022

While Vienna Talks are waiting for Washington's decision and the White House is claiming a diplomatic approach towards Iran, the US Department of Treasury has blacklisted an Iranian individual and 4 companies for fear of developing drone industry. "OFAC is designating three companies and one individual involved in the research, development, production, and procurement of Iranian UAVs and UAV components, including the Shahed series of drones, for Iran's Islamic Revolutionary Guard Corps (IRGC) and its Aerospace Force (IRGC ASF) and Navy," US Department of Treasury said. It claimed that Tehran-based Safiran Airport Services (Safiran) has coordinated Russian military flights between Iran and Russia, including those associated with transporting Iranian UAVs, personnel, and related equipment from Iran to Russia.

<https://en.irna.ir/news/84882536/US-blacklists-1-Iranian-individual-4-companies-for-fear-of-development>

Senior Commander: Iran Stands Among 3 Drone Powers Worldwide

Fars News, 10 September, 2022

Major General Rashid was speaking on the sidelines of his visit on Friday to an exhibition in Isfahan province, where the latest achievements of the Iranian Army Ground Force were displayed. "Iran is now undoubtedly among the world's top three drone powers," he said. "Focusing on the field of drones should not prevent us from operational planning and progress in the area of ground combat since a powerful ground force is essential to the armed forces in the face of threats," the military official added.

<https://www.farsnews.ir/en/news/14010619000119/Senir-Cmmander-Iran-Sands-Amng-3-Drne-Pwers-Wrldwide>

Newly-Unveiled Military Watercraft Upgrades IRGC Naval Operational Capacity

Fars News, 10 September, 2022

“The home-made patrol combat vessel provides the IRGC Navy with the ability to have a powerful presence in oceans,” Rear Admiral Tangsiri stated on Saturday. He added that vessel’s accession to the combat forces of the Iranian Navy will help echo the name of the revered martyr Qassem Soleimani to be heard in all seas and oceans. The Shahid Soleimani patrol combat vessel is capable of carrying helicopters, the senior commander said, adding that it possesses electronic warfare, information technology systems, air defense systems, rocket launchers, and radar-evading stealth technology.

<https://www.farsnews.ir/en/news/14010619000654/Top-Commander-Newly-Unveiled-Military-Waercraf-Upgrades-IRGC-Naval>

Iran to launch Zafar-2 Satellite soon

Islamic Republic News Agency, September 10, 2022

Iran will soon put the domestically-built satellite Zafar-2 (Triumph-2) into orbit, said Dean of Iran University of Science and Technology, the manufacturer of the satellite. Mansour Anbia told IRNA on Saturday that Iran University of Science and Technology (IUST) has so far built four satellites, with Navid being the first satellite built in 2011, Mobin as the second one launched in 2013, and Zafar 1 in 2015. Zafar 2 is the fourth satellite built by IUST, Anbia said, adding that 64 pieces are used to make a satellite. The IUST is privileged for making satellites due to owning different technologies and being capable of meeting the needs of the country in this field, according to Anbia.

<https://en.irna.ir/news/84882819/Iran-to-launch-Zafar-2-Satellite-soon>

Iran to conduct final test of Bavar-373 in coming days

Islamic Republic News Agency, September 10, 2022

Commander of Iran’s Army Air Defense Brigadier General Alireza Sabahifard said on Saturday that Iran’s Army to carry out the final test of the homegrown Bavar-373 air defense system within next few days and the range of this system will top 300 km. Brigadier General Sabahifard in his remarks, highlighted the significance of air defense in defending dignity, prestige and integrity of the establishment of the Islamic Republic of Iran, adding that Iran’s Army Air Defense Force has made every effort to safeguard and preserve the country’s airspace. He said that the homegrown Bavar-373 defense missile system is capable of detecting and targeting the enemies’ aircraft beyond the Iranian borders, as well as simultaneously detecting up to 300 targets, tracking 60 targets and engaging six targets. Bavar 373, as the first Iranian indigenous long-range defense system which was unveiled in August 2019, is a mobile missile defense system designed to intercept and destroy incoming hostile targets.

<https://en.irna.ir/news/84883344/Iran-to-conduct-final-test-of-Bavar-373-in-coming-days>

Iran’s Advanced Precision-Striking Drone Special Weapon for Destroying Israel

Fars News, 12 September, 2022

The Arash-2 drone, which is a newer version of the previously unveiled Arash-1 aircraft, has been developed by the Iranian Army’s Ground Force, Brigadier General Heidari stated. “The new drone enjoys unique specifications and capabilities, and can successfully retrieve information multiple times before it strikes and destroys the designated target,” he explained. “The drone has been

specifically designed to target Haifa and Tel Aviv," the military official noted, hailing it as a "peerless" aerial vehicle.

<https://www.farsnews.ir/en/news/14010621000645/Top-Commander-Iran's-Advanced-Precision-Striking-Drone-Special-Weapon-fr>

Iran says ready for nuclear cooperation but threatens it can hit Israeli cities with drones

CyprusMail, 12 September, 2022

Iran said on Monday it was ready to continue cooperating with U.N. nuclear watchdog while revealing a drone capable of hitting major cities in Israel, which has threatened to attack Iranian nuclear sites if diplomacy fails to save a 2015 nuclear pact. Speaking after European powers expressed frustration with Tehran's intentions to salvage the agreement, Iranian Foreign Ministry spokesman Nasser Kanaani urged the International Atomic Energy Agency (IAEA) "not to yield to Israel's pressure" over Tehran's nuclear activities.

<https://cyprus-mail.com/2022/09/12/iran-says-ready-for-nuclear-cooperation-but-threatens-it-can-hit-israeli-cities-with-drones/>

Iran Develops Deadly Drone to Reach Israeli Cities

Albawaba, 12 September 2022

Brigadier General Kiomars Heidari, the commander of the Iranian army's ground forces, made the remarks in a program broadcast on state TV Sunday night, amid heightened tensions between Iran and Israel. He said the Arash-2 drone, which is the newer version of Arash-1, is a "unique bird" that has been developed for the purpose of "destroying" Israel, describing it as a "child-killing regime".

<https://www.albawaba.com/news/iran-develops-deadly-drone-reach-israeli-cities-1490847>

Israel warns over Iran uranium capability with nuclear talks at halt

The Guardian, September 12, 2022

Tensions around a breakdown in talks between Iran and the US over Tehran's

nuclear programme escalated on Monday when Israel's defence minister, Benny Gantz, claimed that Iran would be able to produce enough enriched uranium to make three nuclear warheads within a few weeks.

Gantz also revealed a map detailing 10 facilities in Syria allegedly being used to arm Iran and its proxies, including Hezbollah. He said the facilities represented a threat to Israel's security. Iran for its part claimed it had manufactured a stealth drone that could hit major Israeli cities. At the same time, the UN nuclear inspectorate chief, Rafael Grossi, said it would be extremely hard to restore the knowledge his organisation had lost about Iranian nuclear activities owing to his inspectors and cameras being barred from key sites by Iran.

<https://www.theguardian.com/world/2022/sep/12/israel-warns-over-iran-uranium-capability-with-nuclear-talks-at-halt>

US seeking to create drone network in ME: Iranian legislator

Islamic Republic News Agency, September 13, 2022

Iranian lawmaker said that the United States sought to create a drone network in the Middle East to appease its allies in the region, including Saudi Arabia and the Zionist regime. Fada-Hossein Maleki, member of the Iranian Parliament's National Security and Foreign Policy Commission, told IRNA on Tuesday that the US has long been seeking to create a regional alliance against Iran. American officials have announced that their goal of creating a drone network in the region is to control Iran's military movements and regional influence, Maleki said. The lawmaker linked the measure to the recent incidents in the Persian Gulf, where, according to him, Iran's Navy strongly repelled suspicious movements of the American navy fleet.

<https://en.irna.ir/news/84886512/US-seeking-to-create-drone-network-in-ME-Iranian-legislator>

P. Iraq

Missile attack in Soran, Erbil

Iraqi News Agency, September 5, 2022

Four Katyusha missiles targeted on Monday, a village near the Khalifan district of Soran district, Erbil. "The village of Tarawa in the Khalifan district within Soran was bombed tonight with four Katyusha missiles," said the supervisor of Soran District Administration, Halgurd Sheikh Othman, in an exclusive statement to the Iraqi News Agency - INA. No victims were recorded during the bombing, but there was material damage, according to Othman. He indicated that "so far, the source of the bombing has not been identified, especially since this area is not military and is densely populated."

<https://ina.iq/eng/21704-missile-attack-in-soran-erbil.html>

Drones, a modern weapon detecting sleeper cells

Iraqi News Agency, September 7, 2022

Ministry of Interior announced on Wednesday, upon 5 advantages of drones in detecting sleeper cells, while stressing Iraq's need for it. "Drones entered the war with Daesh and have long distance dispatches and transmit day and night images, as it can be used to detect sleeper cells," said the Director of Aviation of the Ministry of Interior, Major General Pilot Walid Hussein, to the Iraqi News Agency - INA. Hussein noted that, "these drones are important, and are considered cheap compared to warplanes, as it can cover large areas and for long periods without high costs, in addition to meeting the intelligence need through the transfer of weapons along to reconnaissance."

<https://ina.iq/eng/21739-drones-a-modern-weapon-detecting-sleeper-cells.html>

Q. Israel

Joe Biden to Yair Lapid: We will never tie Israel's hands against Iran

The Jerusalem Post, 05 September 2022

The US will never stop Israel from defending itself against Iran, US President Joe Biden

told Prime Minister Yair Lapid, according to US Ambassador to Israel Tom Nides. "We will never tie Israel's hands in the defense that Israel needs," Nides said, quoting Biden. "We understand the aggression of Iran." Biden also repeated his commitment that Iran will never obtain a nuclear weapon, according to the ambassador.

<https://www.jpost.com/breaking-news/article-716359>

Israel, US hold joint missile defense drill amid Iranian threat

I24 News, September 5, 2022

Israel's Missile Defense Organization (IMDO) held a joint simulation training exercise with the US Missile Defense Agency (MDA), the Israeli Air Defense Command, and the US Air and Missile Defense Task Force aimed at protecting Israel from ballistic threats amid ongoing tensions with Iran. The drill was carried out at the Israeli Test-Bed (ITB) battle lab that can simulate both Israeli and American air defense systems. During the exercise, which took place in late July, Israeli forces operated the Arrow, David's Sling, and Iron Dome air defense systems, while American forces operated the Patriot, Aegis, and THAAD systems. "This exercise represents another step in our extensive cooperation with the American air and missile defense forces," said Moshe Patel, head of the IMDO, adding that the battle lab was developed by Elbit Systems, the IMDO, and the MDA over the past thirty years and "is constantly adapting to meet the challenges posed by our dynamic arena."

<https://www.i24news.tv/en/news/israel/defense/1662384404-israel-us-hold-joint-missile-defense-drill-amid-iranian-threat>

Israel buys refuelling tankers that will help it attack Iran's nuclear sites

The Jerusalem Post, 05 September 2022

In seeking to further its reach as a nuclear deal between Iran and the United

States looks more likely to be signed, the Israel Air Force has signed a contract with Boeing to purchase four multi-mission KC-46 refueling tankers in a deal valued at \$927.5 million. The four new planes that will begin to arrive in 2025 are set to replace the IAF's aging fleet of Re'em Boeing 707 tankers, aircraft that have been flying in various guises for well over half a century.

<https://www.jpost.com/israel-news/article-716091>

IAF grounds fleet of drones after crash at Lebanon sea border

The Times of Israel, September 9, 2022

An Israeli Air Force drone crashed into the sea along Israel's maritime border with Lebanon on Thursday, before being retrieved by the Navy, the military said Friday. According to the Israel Defense Forces, the crash occurred due to a malfunction. No further details on the cause were published. The IDF said the entire fleet of the drone in question, which it did not identify, would be grounded amid an investigation into the crash. Lebanon and Israel are technically in a state of war and the heavily guarded border is commonly penetrated by drones from both sides. Recently, tensions have escalated between the two countries amid US-mediated talks over a maritime border dispute.

<https://www.timesofisrael.com/iaf-grounds-fleet-of-drones-after-crash-at-lebanon-sea-border/>

Israel claims Iran using more than 10 military facilities in Syria for weapons production

WION, September 13, 2022

Israel's defence minister Benny Gantz on Monday (September 12) claimed that Iran is converting Syrian military sites into missile factories. Gantz added that Iran would be able to produce enough enriched uranium to make three nuclear warheads within a few weeks. With the help of a map, Gantz detailed all 10 facilities in Syria that are allegedly being used to arm Iran and its proxies, including Hezbollah. He said that Iran has used more than 10 military facilities in Syria to produce advanced missiles and

weapons. "Iran is building terror industries in Syria for its needs. Recently it started building advanced industries in Yemen and Lebanon as well. This trend must be stopped," Gantz said in New York while speaking at a conference.

<https://www.wionews.com/world/israel-claims-iran-using-more-than-10-military-facilities-in-syria-for-weapons-production-515613>

Israel, Germany Confirm Negotiations for Possible Arrow 3 Missile Defense Sale

The Defense Post, September 14, 2022

Israel and Germany have confirmed negotiations for the potential sale of the Israeli Arrow 3 missile defense system to the European nation. Israeli Prime Minister Yair Lapid revealed the discussions in a public interview with German Chancellor Olaf Scholz during a visit to Berlin on September 12. "Israel ... will play a part in building Germany's new defense force, mainly in the field of air defense," Lapid said. The agreement would bolster Germany's defenses and serve to further secure Europe during heightened tensions due to Russia's invasion of Ukraine.

<https://www.thedefensepost.com/2022/09/14/israel-germany-arrow-missile/>

R. United Arab Emirates

UAE reportedly looking to buy 120 Turkish Bayraktar TB2 drones

Daily Sabah, 09 September, 2022

The United Arab Emirates (UAE) is said to be engaged in lengthy negotiations with a Turkish company behind pioneering drones that earned fame for their critical role in several conflicts, including in Ukraine, a report claimed on Thursday. Talks with Baykar are focused on a supply of up to 120 Bayraktar TB2 unmanned combat aerial vehicles (UCAV), the Middle East Eye reported, citing people familiar with the negotiations.

<https://www.dailysabah.com/business/defense/uae-reportedly-looking-to-buy-120-turkish-bayraktar-tb2-drones>

S. Turkey

Türkiye's 1st indigenous turbofan engine to be launched next year

Anadolu Agency, September 1, 2022

Türkiye's first indigenous turbofan engine, which is also the most powerful engine produced by the country, will be launched by the beginning of 2023. Mahmut Faruk Aksit, CEO of the Tusas Engine Industries, told Anadolu Agency the engine will have a 6,000 pound-force dry thrust, equivalent to around 6,000 horsepower. Speaking at the country's largest technology fair Teknofest in the Black Sea province of Samsun, he said the engine is being showcased for the first time. Two years after conceiving the project, the design phase is over and the manufacturing phase is underway, he said. The target is to launch the product in the first quarter of 2023, he added. The engine is compatible with assault boats, pipelines for pumping natural gas, or the newly designed Turkish fighter drone Kizil Elma.

<https://www.aa.com.tr/en/science-technology/turkiyes-1st-indigenous-turbofan-engine-to-be-launched-next-year/2674562>

Romania wants to buy 18 Turkish Bayraktar TB2 UCAVs for \$300M

Daily Sabah, September 1, 2022

Romania wants to buy Bayraktar TB2 unmanned combat aerial vehicles (UCAV) from Türkiye after it gained popularity for causing loss to the Russian military gear in the war in Ukraine, following several examples elsewhere, the local media reported Thursday. According to media reports, the country wants about 18 such UCAVs at an estimated price of \$300 million. The Romanian Ministry of Defense has sent a request to Parliament for such purpose, the reports said and if it receives legislative approval, it will be able to start negotiations with the Turkish company – Baykar. Currently, Romania does not have state-of-the-art combat drones in its inventory.

<https://www.dailysabah.com/business/defense/romania-wants-to-buy-18-turkish-bayraktar-tb2-ucavs-for-300m>

Turkish drone magnate rushes to boost capacity as orders pile up

Daily Sabah, September 1, 2022

Turkish company behind pioneering drones that earned fame for their critical role in several conflicts, including in Ukraine, is seeking to ramp up its production capacity to meet the orders piling up. Baykar has signed deals to sell Bayraktar TB2 unmanned combat aerial vehicles (UCAV) to 24 countries and has reached a point where exports account for almost all of its revenues this year, its CEO Haluk Bayraktar said Thursday. The platform is known for taking out some of the most advanced anti-aircraft systems and advanced artillery systems and armored vehicles – a capability it demonstrated in conflicts in Syria, Iraq, Libya and Nagorno-Karabakh as well as Ukraine. The TB2 has been such a factor that it now spearheads Türkiye's global defense export push.

<https://www.dailysabah.com/business/defense/turkish-drone-magnate-rushes-to-boost-capacity-as-orders-pile-up>

Turkish defense giant Aselsan introduces flapping-wing nano UAV

Daily Sabah, September 1, 2022

Turkish defense giant Aselsan exhibited technology it used in its flapping-wing nano unmanned aerial vehicle (UAV) at the major aviation and defense industry event, Teknofest. The “flapping mechanism” of the mini-UAV with flapping wings draws high attention from the visitors at the Aselsan booth. The mechanism, which was developed and designed entirely by Aselsan, was produced for hummingbird-type flapping wing mini aircraft. It is aimed to perform reconnaissance and surveillance missions with flapping wing UAVs with low detectability by completing the project, which is currently in the research and development (R&D) phase.

<https://www.dailysabah.com/business/defense/turkish-defense-giant-aselsan-introduces-flapping-wing-nano-uav>

Turkish tech event Teknofest boasts cutting-edge technology, aircraft, inventions

Anadolu Agency, September 2, 2022

Türkiye's largest technology and aviation event Teknofest this year is showcasing cutting-edge technology, next-generation aircraft, the latest military equipment, and inventions in Samsun, on the Turkish Black Sea. As part of aircraft/transport exhibits, visitors were treated to look at unmanned aerial vehicles Bayraktar TB-2, Kizil Elma and Aksungur, F-16 and F-4 Phantom fighter jets, helicopters Gokbey and Bell 429, ongoing national warcraft projects MMU and Hurjet, indigenous trainer plane Hurkus, transport aircraft CASA CN-235, maritime patrol aircraft P-72, and the first indigenous flying car Cezeri. The event also featured air shows with jet fighters, drones, and helicopters. Some products were introduced for the first time at the event, such as Baykar's next-generation fighter drone Kizil Elma and Aselsan's mini/nano UAV project's flapping wings.

<https://www.aa.com.tr/en/science-technology/turkish-tech-event-teknofest-boasts-cutting-edge-technology-aircraft-inventions/2675280>

Türkiye-built engines for domestic choppers draw foreign customers

Daily Sabah, September 2, 2022

Turkish Aerospace Industries' (TAI) engine manufacturing subsidiary, TUSA^a Engine Industries (TEI), continues with domestic engine production without slowing down, and those engines that will power nationally built choppers have already attracted demand from outside Türkiye, the company's general manager said Friday. TEI General Manager Mahmut Faruk Ak^oit told Anadolu Agency (AA) that they delivered the first prototype of the TS1400 turboshaft engine to TAI 1 1/2 years ago to start the integration studies. "We have been continuing the maturation tests of the TS1400 since then. We have tested it up to the emergency take-off power," he said. Ak^oit said that this engine would be integrated into Gökbey, Türkiye's first

homegrown multirole helicopter, in the first half of next year.

<https://www.dailysabah.com/business/defense/turkiye-built-engines-for-domestic-choppers-draw-foreign-customers>

Türkiye's 1st unmanned marine craft to have domestic diesel engine

Daily Sabah, September 5, 2022

Türkiye's first armored unmanned surface vessel (AUSV), the first marine craft of the ULAQ project, will be powered by a domestically developed marine diesel engine, the head of the company making the engine said Monday. Halim Tosun, general manager of TÛMOSAN Engine and Tractor Industry Inc. told Anadolu Agency (AA) that they manufacture engines for the defense industry and his company is part of many projects kicked off under the Presidency of Defense Industries (SSB). Torun said that they have gained important ground in the ULAQ project, which was developed by Ares Shipyard in cooperation with Ankara-based Meteksan Defense Industry Inc. "We will carry out prototype deliveries of the engines this year," he said, noting that have taken important steps toward becoming a marine engine supplier in line with the Turkish defense industry's recent push for local production and nationalization of systems.

<https://www.dailysabah.com/business/defense/turkiyes-1st-unmanned-marine-craft-to-have-domestic-diesel-engine>

Gunmaker Canik's wares pull crowds at Turkish tech event Teknofest

Anadolu Agency, September 6, 2022

Products from Canik, a major Turkish arms manufacturer, garnered great interest at Teknofest, Türkiye's largest technology and aviation event held last week in the Black Sea city of Samsun. Canik, one of the main sponsors of this year's Teknofest, showcased several

products that it exports to 69 countries, the company said in a statement. Its biggest crowd-puller was the Canik M2 QCB (Quick Change Barrel), an anti-aircraft gun that the firm touts as “one of the most combat-proven heavy machine guns in the world.”

<https://www.aa.com.tr/en/science-technology/gunmaker-caniks-wares-pull-crowds-at-turkish-tech-event-teknofest/2678036>

Poland, Azerbaijan eye award-winning Turkish arms

Daily Sabah, September 8, 2022

Turkish weapon manufacturing giant Sarsılmaz attracted the attention of visitors at Polish and Azerbaijani defense fairs with its domestic products. The company said Thursday in a statement that it attended the 30th International Defense Industry Fair MSPO held in Kielce, Poland between Sept. 6-9 for the first time this year. At the event, it exhibited its products consisting of infantry rifles, machine guns and pistols. Türkiye’s Defense Minister Hulusi Akar together with his Polish counterpart Mariusz Blaszczak visited the Sarsılmaz booth at the fair and examined the weapons produced by the company with domestic resources.

<https://www.dailysabah.com/business/defense/poland-azerbaijan-eye-award-winning-turkish-arms>

Türkiye hosts International Space Convention

Anadolu Agency, September 9, 2022

International Space Convention (ISC) 2022, one of the world’s leading space events, has begun in Türkiye’s Marmara province of Bursa. The three-day event, which started on Friday, will host 80 speakers, including experts and officials from companies and space agencies such as European Space Agency and Turkish Space Agency. During the event, a number of topics will be discussed, including autonomy in space, commercialization of space, and using space for international security challenges. Organized by Altair Enterprises, a space education company, the event is hosted by

Gokmen Space and Aviation Training Center (GUHEM), located in Bursa.

<https://www.aa.com.tr/en/science-technology/turkiye-hosts-international-space-convention/2681282>

Türkiye signals it may turn to Russia if US blocks F-16 jet sales

Daily Sabah, September 9, 2022

Türkiye may turn to other countries such as Russia if the United States fails to follow through on its promise to deliver F-16 fighter jets, President Recep Tayyip Erdoğan said Friday. A bill recently approved by American lawmakers created a new hurdle for any purchase by Türkiye, which has been voicing its firm opposition to any conditions on the sale of the Lockheed Martin-made F-16s. U.S. President Joe Biden has said he would work to convince lawmakers to deliver the F-16 jets for Türkiye’s air force. Erdoğan recalled that Biden told him in June that he “will extend all the support he can regarding F-16s.” Expressing hope for the U.S. to “not lead” Türkiye to “different tracks,” Erdoğan said: “The U.S. is not the only one selling warplanes in the world. The U.K., France and Russia sell them as well.”

<https://www.dailysabah.com/business/defense/turkiye-signals-it-may-turn-to-russia-if-us-blocks-f-16-jet-sales>

UAE reportedly looking to buy 120 Turkish Bayraktar TB2 drones

Daily Sabah, September 9, 2022

The United Arab Emirates (UAE) is said to be engaged in lengthy negotiations with a Turkish company behind pioneering drones that earned fame for their critical role in several conflicts, including in Ukraine, a report claimed on Thursday. Talks with Baykar are focused on a supply of up to 120 Bayraktar TB2 unmanned combat aerial vehicles (UCAV), the Middle East Eye reported, citing people familiar with the negotiations. A potential deal could amount to around \$2 billion (TL

36.4 billion) along with ammunition, command, control centers and training, the report said.

<https://www.dailysabah.com/business/defense/uae-reportedly-looking-to-buy-120-turkish-bayraktar-tb2-drones>

Greece gets 1st pair of upgraded F-16 jets amid tensions with Türkiye

Daily Sabah, September 12, 2022

The first pair of upgraded F-16 military jets was delivered to Greece's air force on Monday under a \$1.5 billion program to modernize its fighter fleet, which comes amid increasing tensions with neighboring Türkiye. The two F-16s presented at the Tanagra air base northwest of Athens are the first of 83 to be refitted with advanced electronics, radar and weapons capabilities by late 2027 by Greece's Hellenic Aerospace Industry, in coordination with U.S. manufacturer Lockheed Martin. The head of Greece's joint chiefs of staff, Gen. Constantinos Floros, said the program's successful and timely completion "is an issue of the highest national importance." "Any potential aggressor will have to think twice or thrice before trying their luck," once the upgrade is completed, he said at Monday's presentation.

<https://www.dailysabah.com/business/defense/greece-gets-1st-pair-of-upgraded-f-16-jets-amid-tensions-with-turkiye>

In a first, Turkish armed unmanned vessel to join NATO drill

Daily Sabah, September 15, 2022

Turkish armed unmanned surface vessel (AUSV) is set to be used in an upcoming NATO exercise, becoming Türkiye's first such platform to be represented in the alliance's military drill, local media reported Thursday. The AUSV MARLIN was produced in cooperation with Sefine Shipyard and leading defense company Aselsan domestically in northwestern Yalova province, under the leadership of the Presidency of Defense Industries (SSB). With this product, Türkiye will undertake special tasks in its own classification, such as

underwater and surface reconnaissance and surveillance, intelligence, electronic warfare, target detection and identification, and support for amphibious operations in the NATO exercise, according to TRT Haber.

<https://www.dailysabah.com/business/defense/in-a-first-turkish-armed-unmanned-vessel-to-join-nato-drill>

East Asia

T. North Korea

U.N. nuclear watchdog has "serious concern" about North Korea

Reuters, September 7, 2022

The U.N. nuclear watchdog has "serious concern" about North Korea's atomic programme, it said in an annual report to members on Wednesday, urging the country to comply with Security Council resolutions.

<https://www.reuters.com/world/asia-pacific/un-nuclear-watchdog-has-serious-concern-about-north-korea-2022-09-07/>

US: Russia to buy rockets, artillery shells from North Korea

AP news, September 7, 2022

The Russian Ministry of Defense is in the process of purchasing millions of rockets and artillery shells from North Korea for its ongoing fight in Ukraine, according to a newly downgraded U.S. intelligence finding. Brig. Gen. Pat Ryder, the Pentagon press secretary, said Tuesday that "the information that we have is that Russia has specifically asked for ammunition." He said the U.S. has seen indications Russia approached North Korea, but said he had no other details, including whether money has changed hands or any shipments are in progress. "It does demonstrate and is indicative of the situation that Russia finds itself in, in terms of its logistics and sustainment capabilities as it relates to Ukraine," said Ryder, in the administration's first public comments on the intelligence assessment. "We assess

that things are not going well on that front for Russia.”

<https://apnews.com/article/russia-ukraine-north-korea-government-and-politics-495e976d1217d38c397a16e79cc305de>

DPRK promulgates law on nuclear forces policy

Xinhua, September 9, 2022

The Supreme People’s Assembly of the Democratic People’s Republic of Korea (DPRK) promulgated a law on the state policy on the nuclear forces, the official Korean Central News Agency (KCNA) reported. The law stipulates that the DPRK opposes all forms of war including nuclear wars and aspires to build a peaceful world in which the international justice is realized, said the report. The nuclear posture of the DPRK is guaranteed by the reliable, effective and matured nuclear deterrence, defensive and responsible nuclear forces policy, said the KCNA, adding that the opening of the DPRK’s policy on the nuclear forces and legal stipulation of the use of nuclear weapons are aimed to reduce the danger of a nuclear war to the maximum by preventing misjudge among nuclear weapons states and misuse of nuclear weapons.

<https://english.news.cn/20220909/f689c040f89647d185d17ca1568f91ce/c.html>

North Korea declares itself a nuclear weapons state

NPR, September 10, 2022

North Korean leader Kim Jong Un stressed his country will never abandon the nuclear weapons it needs to counter the United States, which he accused of pushing to weaken the North’s defenses and eventually collapse his government, state media said Friday. Kim made the comments during a speech Thursday at North Korea’s rubber-stamp parliament, where members passed legislation governing the use of nuclear weapons, which Kim described as a step to cement the country’s nuclear status and make clear such weapons will not be bargained. U.N. Secretary-General Antonio

Guterres’s office said he was “deeply concerned” about the new law, and noted that the North’s pursuit of a nuclear weapons program “continues to disregard the resolutions of the Security Council to cease such activities.”

<https://www.npr.org/2022/09/10/1122196021/north-korea-declares-itself-a-nuclear-weapons-state>

U. Japan

Tokyo’s militaristic tendency raises regional tensions and alarm as anniversary of the victory in the War of Resistance Against Japanese Aggression approaches

Global Times, September 1, 2022

Going further down a dangerous path, Japan’s defense authority boasted of producing longer-range and hypersonic missiles, and greatly boosting Japan’s defense budget for the next year. Chinese experts believe that those signals not only show that Tokyo is speeding up the breakaway from its pacifist constitution and embracing expanding militarism, but that the country is also seeking to enhance its ability to strike. Days before the anniversary of the victory in the War of Resistance Against Japanese Aggression (1931-45) on September 3, Russia, China and several other countries are joining in drills in an effort to uphold post-World War II peace and stability, while countries such as Japan have walked on a different path, hyping so-called threats and targeting neighboring countries, and are going full-swing towards militarism.

<https://www.globaltimes.cn/page/202209/1274427.shtml>

Nuclear power is key for Japan’s energy security and carbon neutrality goals, minister says

CNBC, September 5, 2022

Nuclear power will be key for Japan’s energy security as the country targets carbon neutrality, said Japan’s Minister of Economy, Trade and Industry Yasutoshi

Nishimura. "I believe that nuclear power is important as we work towards carbon neutrality while ensuring energy security. We are in the direction of planning to increase the overall dependency level in nuclear energy," Nishimura told CNBC's Silvia Amaro on the sidelines of the G-20 ministers' meeting in Indonesia on Saturday. Nuclear power has often been touted as an important option for decarbonization. In May, Japanese Prime Minister Fumio Kishida announced the country will take steps to restart idled nuclear power plants in efforts to stabilize energy supply and prices.

<https://www.cnn.com/2022/09/05/nuclear-power-is-key-for-japans-energy-security-yasutoshi-nishimura.html>

North Korea 'always welcome' at negotiating table: Japan nuclear envoy

Alarabiya News, September 7, 2022

North Korea is "always welcome" at the negotiating table even though the threat of further provocation may be looming, Japan's nuclear envoy, Takehiro Funakoshi, said on Wednesday ahead of a meeting with his US and South Korean counterparts. The three nations, which met in Tokyo to discuss their North Korea strategy, are tightening security cooperation as tension rises in the wake of recent North Korean moves such as an unusual number of missile launches and warnings from the United States that Pyongyang could sell weapons to Russia. Wednesday's meeting came after trilateral talks held over the past two months, including a gathering of security advisers from the three nations in Hawaii last week amid signs North Korea may be about to conduct its first nuclear test since 2017.

<https://english.alarabiya.net/News/world/2022/09/07/North-Korea-always-welcome-at-negotiating-table-Japan-nuclear-envoy>

France to send latest nuclear shipment to Japan

Alarabiya, September 7, 2022

A shipment of reprocessed nuclear fuel arrived in the early hours of Wednesday at

the French port city of Cherbourg, according to an AFP photographer, bound for Japan to be used in a power plant. Japan lacks facilities to process waste from its own nuclear reactors and sends most of it overseas, particularly to France. The load of highly radioactive Mox, a mixture of reprocessed plutonium and uranium, was transported overnight from a plant in the Hague in secure containers on two trucks, the French nuclear technology group Orano said. The convoy arrived around 3:45 am at the port surrounded by law enforcement vehicles, according to an AFP photographer.

<https://english.alarabiya.net/News/world/2022/09/07/France-to-send-latest-nuclear-shipment-to-Japan>

Japan Plans To Restart Seven Nuclear Reactors By Summer 2023

OilPrice.com, September 14, 2022

In Japan, a major reversal last month, the government now wants to restart more nuclear power plants that were idled after the 2011 Fukushima disaster and is interested in expanding investments in next-generation plants. Weeks after the announcement, Japanese broadcaster NHK commissioned a new survey that revealed half of the population supports the government's initiative to expand nuclear power. NHK found that 48% of the respondents supported Japanese Prime Minister Fumio Kishida's plan of developing next-generation nuclear reactors as a reliable, clean energy power source in the country. About 32% opposed the plan, and another 20% were undecided. The survey was conducted between Sept. 9-11 via random telephone conversations among 1,255 adults and came two weeks after Kishida announced plans to examine the construction of new plants that would break more than a decade of energy policy following the Fukushima disaster, which led to a decade-long effort to eliminate nuclear.

<https://oilprice.com/Alternative-Energy/Nuclear-Power/Japan-Plans-To-Restart-Seven-Nuclear-Reactors-By-Summer-2023.html>

Speedy Shift to Nuclear Power in Japan Shot Down by Watchdog

Bloomberg, September 15, 2022

Japan's rigorous procedure for restarting nuclear reactors can't be shortened, according to the nation's top atomic watchdog, presenting a potential hurdle in the government's effort to speed the revival of power plants. Determining natural-disaster risk at nuclear power plants "intrinsically takes a long time," making it difficult for operators to make management decisions on how much time and money they are willing to invest, said Toyoshi Fuketa, chairman of the Nuclear Regulation Authority.

<https://www.bloomberg.com/news/articles/2022-09-15/atomic-watchdog-chief-sees-no-fast-track-for-japan-nuke-restarts?leadSource=uverify%20wall>

V. South Korea

China, Russia hold key to eliminating North Korea's nuclear advances: South Korea

Alarabiya News, September 1, 2022

China and Russia's reluctance to toughen UN sanctions on North Korea is "the biggest challenge" facing international efforts to eliminate the North's nuclear arsenal, a top South Korean official said Thursday. The North remains ready to conduct its first nuclear test in five years that is banned by UN resolutions. Beijing and Moscow, which both have close ties with North Korea and are locked in confrontations with the United States, already vetoed US-led attempts to slap fresh sanctions on North Korea over its missile tests year. That raises worries that North Korea would escape punitive measures even if it performs bigger provocation like a nuclear test explosion. "Even though North Korea conducts an additional nuclear test, there is a possibility that no additional sanctions would be adopted at the UN Security Council because of a US-China strategic rivalry and a US-Russia tension over the Ukraine war," South Korea's Vice Defense

Minister, Shin Beomchul, told The Associated Press during an interview.

<https://english.alarabiya.net/News/world/2022/09/01/China-Russia-hold-key-to-eliminating-North-Korea-s-nuclear-advances-South-Korea>

South Korea official: no soft response in case of North Korea nuclear test

Reuters, September 2, 2022

South Korea's national security adviser has said he and his counterparts from the United States and Japan have agreed there will be no soft response if North Korea conducts a nuclear test, Yonhap news agency reported on Friday.

<https://www.reuters.com/world/asia-pacific/skorea-official-no-soft-response-case-nkorea-nuclear-test-2022-09-01/>

Japan, U.S. and South Korea to take steps in case of North Korea nuclear test

The Japan Times, September 7, 2022

Senior diplomats from Japan, the United States and South Korea pledged Wednesday to take "specific steps" if North Korea conducts a nuclear test, a Japanese Foreign Ministry official said, with fears growing about such a provocation. The agreement came at a trilateral meeting in Tokyo between Takehiro Funakoshi, director general of the Japanese Foreign Ministry's Asian and Oceanian Affairs Bureau, and his U.S. and South Korean counterparts, Sung Kim and Kim Gunn. They also agreed to keep promoting security cooperation among the three nations to beef up their deterrence against North Korea, which has test-launched ballistic missiles in defiance of a spate of U.N. Security Council resolutions, according to the ministry.

<https://www.japantimes.co.jp/news/2022/09/07/national/nuclear-test-steps/>

Contribute Articles

Indian Pugwash Society welcomes research articles from students, researchers and faculties on Space, Missile, nuclear technology, WMD proliferation, arms control, disarmament, export controls and other related issues. Articles should be crisply written and should address contemporary debates in the policy arena. Manuscripts submitted for the consideration of the Indian Pugwash Society should be original contributions and should not have been submitted for consideration anywhere else. For further assistance, please contact us at : indianpugwashsociety@gmail.com

The Indian Pugwash Society aims to promote the study, discussion, and knowledge of and to stimulate general interest in, and to diffuse knowledge in regards to problems relating on WMD proliferation, arms control, disarmament, space security, export controls, nuclear technology and other related issues. This newsletter is part of the project "Emerging Nuclear Order in Asia: Implications for India" sanctioned to us by Department of Atomic Energy-Board of Research in Nuclear Sciences (DAE-BRNS).

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