



Weekly Precious Metals News Articles: October 9, 2021

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Below is a cross section of relevant news article to the world of Precious Metals:

Markets, Supply & Demand, Investment, and Industrial Applications.

Printable PDF version attached. Enjoy-

Gold

- **Gold price shoots higher on US labor data disappointment -**
 - Gold prices advanced past the key \$1,750 level on Thursday as investors sought haven after a new labor report pointed to an uneven recovery in the US jobs market.
 - Spot gold rose 1.7% to \$1,757.38 per ounce by 11:55 a.m. EDT, its highest level in more than a week. US gold futures gained 2.1% to trade at \$1,760.30 per ounce in New York.
<https://www.mining.com/gold-price-shoots-higher-on-us-labor-data-disappointment/>
- **Gold: India slips to discounts, China demand seen up post-holiday**
 - Physical gold rates in India flipped to a discount for the first time in over two months this week as a rise in local prices curbed demand, while buying in China was expected to pick up after the Golden Week holiday.
 - Dealers in India offered discounts of up to \$2 an ounce over official domestic prices - inclusive of 10.75 per cent import and 3 per cent sales levies - down from last week's premium of \$4.
<https://economictimes.indiatimes.com/markets/commodities/news/gold-india-slips-to-discounts-china-demand-seen-up-post-holiday/articleshow/86878089.cms>
- **Gold's lackluster year may get a boost as stagflation risks grow**
 - "Gold, short-term, is not a good hedge against inflation — against popular belief — longer term it does better," said Wayne Gordon, executive director of commodities and foreign exchange at UBS Global Wealth Management. "Hence, we don't see it outperforming unless growth disappoints and there is a broader risk off, which leads to a reversal of monetary policy trends."
 - This time though, investors are grappling with the possibility of stagflation — the combination of slowing growth and rising prices that hit major Western economies in the 1970s — creeping back into markets with the recent surge in energy costs. Supply chain turmoil has also boosted the price of many goods for consumers.
<https://www.mining.com/web/golds-lackluster-year-may-get-a-boost-as-stagflation-risks-grow/>
- **Gold/silver/commodities: introducing our top 5 ideas for q4 2021**
 - While searching for ideas to gain exposure in the inflation trade within the coming quarter, we based these high conviction ideas while taking into account the predictive fundamental, quantitative, technical, and weather models to flag several markets. Key Takeaways
 - Coffee - Bullish Catalyst: After forming a multi-year high in July 2021, prices have pulled back. Expectations indicate that over a quarter of the production has been lost due to Brazil's severe frost,

and will take multiple years to recover while supply chain constraints simultaneously prevent a steady flow of new supply from Vietnam.

- **Gold** - Bullish Catalyst: Bulls have repeatedly been knocked down, but I do not believe they are out for the count.
- **Oil** - Bullish Catalyst: I'll leave it with this; you fill up your gas tank, you know where prices are heading.
- **Platinum** - Bullish Catalyst
- **Wheat** - Bullish Catalyst: Dry conditions in growing regions have resulted in sharp declines in wheat production, and with food inflation on the rise, Governments globally are scrambling to restock inventories.

<https://www.kitco.com/commentaries/2021-10-01/Gold-silver-commodities-introducing-our-top-5-ideas-for-q4-2021.html>

Semiconductor Related Articles (impacting Precious Metals electronics):

- **Global Semiconductor Sales Increase 29.7% Year-to-Year, 3.3% Month-to-Month in August - Semiconductor Industry Association**
 - The Semiconductor Industry Association today announced global semiconductor industry sales were \$47.2 billion in the month of August 2021, an increase of 29.7% over the August 2020 total of \$36.4 billion and 3.3% more than the July 2021 total of \$45.7 billion. Monthly sales are compiled by the World Semiconductor Trade Statistics organization and represent a three-month moving average. <https://www.semiconductors.org/global-semiconductor-sales-increase-29-7-year-to-year-3-3-month-to-month-in-august/>
- **Global chip shortage impacts the iPhone less than the rest of the industry**
 - Counterpoint Research has lowered its estimate of global smartphone deliveries this year. Shipments of the device were originally forecast to hit 1.45 billion units in 2021 for a 9% annual gain, but thanks to the chip shortage Counterpoint has cut its estimate for this year to 1.41 billion smartphones shipped for a 6% growth rate year-over-year. The shortage of semiconductors started to be an issue during last year's fourth quarter and it has continued since.
 - Inventories of chips held by manufacturers are now scraping the bottom of the barrels and many manufacturers have said that during the second quarter, they received only 80% of the number of components ordered. And to make matters worse, things were worse during the just-completed third quarter of the year with some firms receiving only 70% of the number of components ordered. <https://www.retailnews.asia/global-chip-shortage-impacts-the-iphone-less-than-the-rest-of-the-industry/>
- **European IC Effort Doubles Down on Tech Sovereignty**
 - The pursuit of technology sovereignty from China to the U.S. to Europe has moved to the forefront as semiconductors emerge as the coin of the realm.
 - As Beijing invests billions on chip innovation and U.S. lawmakers reach consensus on the strategic value of chips, the European Union is entering the fray with proposed legislation aimed at advancing technology independence. The declaration, dubbed the European Chips Act, was proclaimed by European Commission President Ursula von der Leyen in a State of the Union address on Sept. 15. <https://www.eetimes.com/european-ic-effort-doubles-down-on-tech-sovereignty/#>
- **Wire-bonding demand for consumer chips may slow down in 2022**
 - Demand for wire-bonding packaging is likely to slow down in 2022 as backend houses have decided to defer installation of new wire-bonders that have reached them following long delivery lead times, according to industry sources.
 - Backend demand for peripheral chip solutions for consumer notebooks, Chromebooks, gaming machines and handsets are showing signs of softening, prompting concerns over whether tight wire-bonding capacity supply will persist into 2022, the sources continued. <https://www.digitimes.com/news/a20211004PD205.html>

- **Semiconductors tipped to soar this year**
 - The production value in Taiwan’s semiconductor industry this year is expected to soar 31.8% from last year to NT\$3.6 trillion (US\$129 billion), outpacing 10.1% growth in the global semiconductor industry, market researcher the Market Intelligence and Consulting Institute said yesterday.
 - Production in the foundry segment, a pillar of Taiwan’s semiconductor industry, is to expand 20% annually to NT\$1.9 trillion, driven by higher chip prices as demand continues to outstrip supply, the institute said.
<https://www.taipeitimes.com/News/biz/archives/2021/10/06/2003765578>
- **U.S. Department of Defense at risk should FPGA supply dry up**
 - Stakeholders have reason to be alarmed should a production stoppage result in failure to fulfill commitments for delivery of ruggedized Field Programmable Gate Arrays (FPGA). Such risks are described in the Department of Defense Industrial Policy report titled, “Assessing and Strengthening the Manufacturing and Defense Industrial Base and Supply Chain Resiliency of the United States”. Major semiconductor device manufacturers, such as Texas Instruments, Teledyne and others could feel the inevitable repercussions.
<https://www.topline.tv/MEPTEC2.html>
- **Abu Dhabi-controlled GlobalFoundries files for U.S. IPO amid worldwide chip shortage**
 - GlobalFoundries was established in 2008, when a branch of the government of Abu Dhabi bought AMD’s manufacturing operations in Dresden, Germany.
 - The semiconductor industry will require a significant increase in investment to keep up with demand, with total industry revenue expected to double over the next eight to ten years,” GlobalFoundries said in its prospectus.
<https://www.cnbc.com/2021/10/04/abu-dhabi-controlled-globalfoundries-files-for-ipo-amid-chip-shortage.html>

Silver

- **Silver investors undaunted**
 - Silver has suffered a series of sharp selloffs since mid-June, serious collateral damage from gold-futures speculators’ fears of Fed tightening. Naturally silver bearishness has steadily mounted in recent months as this precious metal cascaded lower on balance. But interestingly this chronic silver weakness hasn’t seemed to faze investors. They’ve apparently largely held on to their silver, undaunted by the relentless selling.
<https://www.mining.com/web/silver-investors-undaunted/>
- **Silver Price Forecast – Silver Give Up Early Gains After Jobs Miss**
 - Silver markets initially dipped just a bit lower during the course of the trading session on Friday, but then turned around to skyrocket as the jobs number was a complete miss in the United States. That being said, we also give back those gains as the market is essentially hanging on to the idea of the \$23 level offering resistance. The shape of the candlestick is of course a shooting star, so if we were to break down below the bottom of the candlestick it is likely that we could go looking towards the \$22 level, perhaps even down to the \$21.50 level after that. Breaking that level course opens up a huge move lower.
<https://finance.yahoo.com/news/silver-price-forecast-silver-early-163844180.html>
- **Silver’s Bleak Summer Creates Bargain Opportunity**
 - Silver’s seemingly endless slide could be setting up an epic fourth quarter rally.
 - With pandemic monetary policy being rolled back across the globe, ongoing supply chain issues, and energy shortages, manufacturing has cooled down. As an industrial metal, this has impacted silver quite a bit. Prices have seen their worst four-month stretch since 2014. In the third quarter, silver went down 16%

<https://www.nasdaq.com/articles/silvers-bleak-summer-creates-bargain-opportunity-2021-10-06>

Precious Metals Mining:

- **Investment in mining crucial to ensure continued contribution to economy – PwC**
 - Investment in the mining industry is crucial to ensure its continued contribution to the South African economy, says PwC in its thirteenth edition of SA Mine 2021, a series of publications that highlights trends in the South African mining industry.
<https://www.polity.org.za/article/investment-in-mining-crucial-to-ensure-continued-contribution-to-economy-pwc-2021-10-05>
- **A step towards carbon neutrality for Limpopo mine**
 - In a step towards achieving its goal of carbon neutrality, Anglo American Platinum has selected the Pele Green Energy – EDF Renewables South Africa consortium as the preferred supplier to build a 100MW solar photovoltaic (PV) plant at its Mogalakwena mine in Limpopo Province, South Africa.
<https://www.esi-africa.com/industry-sectors/generation/solar/a-step-towards-carbon-neutrality-for-limpopo-mine/>

E-Waste & Precious Metals Recycle Related:

- **Precious metals from electronic waste in seconds**
 - In what should be a win-win-win for the environment, a process developed at Rice University to extract valuable metals from electronic waste would also use up to 500 times less energy than current lab methods and produce a byproduct clean enough for agricultural land.
 - The flash Joule heating method introduced last year to produce graphene from carbon sources like waste food and plastic has been adapted to recover rhodium, palladium, gold and silver for reuse.
<https://www.sciencedaily.com/releases/2021/10/211004140300.htm>
- **Flash-heating efficiently recycles precious metals from e-waste**
 - Electronic waste (or e-waste) is not only a major pollutant in landfill, but huge amounts of useful resources are being thrown away. Engineers at Rice University have now shown that precious metals and rare earth minerals can be recovered by flash-heating ground-up electronics with a zap of electricity.
<https://newatlas.com/materials/ewaste-flash-heating-recover-precious-metals/>
- **Catalytic converter theft has surged nationwide. LA's top prosecutor is threatening a fight with auto companies to force change.**
 - But Gascón has a plan that he believes could reverberate across the nation in stopping these (catalytic converter) thefts. He's working with several auto manufacturers in hopes of crafting solutions such as installing anti-theft devices and marking the converters, like other major car parts, so they can be tracked when resold – making it both easier for law enforcement to investigate and, potentially, cutting off the incentive if buyers are able to distinguish whether a part is stolen before purchasing.
<https://www.msn.com/en-us/news/us/catalytic-converter-theft-surged-nationwide-las-top-prosecutor-is-threatening-a-fight-with-auto-companies-to-force-change/ar-AAP7RLe?ocid=BingNewsSearch>
- **Global copper smelting activity rebounded in September due to high processing fees prompting smelters to increase production**
 - SAVANT, the satellite service provider, and Marex, the broker, said in a statement that while copper processing business in China and the United States, the world's largest copper producer, had declined, the global copper processing business had increased.
 - Spot processing costs (TC/RCS) in China, the largest consumer of copper, have soared by about 45 per cent in the past three months and are on track for the biggest quarterly increase since the first quarter of 2011.

<https://news.metal.com/newscontent/101613245/Global-copper-smelting-activity-rebounded-in-September-due-to-high-processing-fees-prompting-smelters-to-increase-production/>

Platinum

- **'It's really a gimmick': Yellen on minting the \$1 trillion coin for debt ceiling**
 - U.S. Treasury Secretary Janet Yellen rejected the idea of minting a \$1 trillion platinum coin to avoid raising the debt ceiling via the usual bipartisan way.
 - Yellen referred to the idea as a "gimmick." "I'm opposed to it, and I don't believe that we should consider it seriously. It's really a gimmick," Yellen told CNBC in an interview when asked about the \$1 trillion platinum coin idea.
<https://www.kitco.com/news/2021-10-06/-it-s-really-a-gimmick-Yellen-on-minting-the-1-trillion-coin-for-debt-ceiling.html>
- **PGMs landscape is changing but not fading, producers agree**
 - When it comes to the future growth of platinum group metal (PGM) producers, some are covering their bases by diversifying into battery metals, while others are looking to benefit from the much-hyped hydrogen economy.
<https://www.miningweekly.com/article/pgm-landscape-is-changing-but-not-fading-producers-agree-2021-10-07>

Fuel Cells/Hydrogen Economy Related Articles:

- **Ballard announces 100-million-kilometer milestone**
 - Ballard Power Systems (NASDAQ: BLDP) (TSX: BLDP) today announced that the Company's proton exchange membrane (PEM) fuel cell technology and products have now powered Fuel Cell Electric Vehicles – or FCEVs – in commercial Heavy- and Medium-Duty Motive applications for an industry-leading cumulative total of more than 100 million kilometers on roads around the globe.
<https://finance.yahoo.com/news/ballard-announces-100-million-kilometer-123000250.html>
- **Linde commits to green hydrogen for trucks and becomes H2Accelerate member**
 - Linde has announced that it has become the 7th member of H2Accelerate and that it is committing to green hydrogen for truck refuelling stations worldwide.
 - “We have been in the hydrogen business for a long time and are committed to helping the world to reach its climate targets by contributing with our knowledge expertise and infrastructure to the development of the hydrogen economy,” said Linde’s Clean Energy Development Vice President David Burns when discussing the company’s membership in H2Accelerate. “The task ahead of us is large and complex, as is the environmental challenge that we currently face. The world needs to work together if it wants to come up with a timely solution to tackle climate change.”
 - Burns went on to add that, “Trucking is one of the sectors that can substantially reduce its emissions if switching from diesel to clean hydrogen. We are very glad to be part of the H2Accelerate collaboration to facilitate and drive that switch.”
https://www.hydrogenfuelnews.com/green-hydrogen-linde/8548600/?mc_cid=6273865471&mc_eid=70c1246d58
- **Toyota to assemble fuel cell modules at Kentucky plant in 2023**
 - After thousands of miles of real-world testing in the harsh environment of commercial trucking, Toyota is preparing to further expand its portfolio approach to products by taking its groundbreaking hydrogen-powered fuel cell electric technology from prototypes to production in its efforts toward carbon neutrality.
 - Starting in 2023, a dedicated line at Toyota Motor Manufacturing Kentucky (TMMK) will begin assembling integrated dual fuel cell (FC) modules destined for use in hydrogen-powered, heavy-duty commercial trucks.

<https://www.lanereport.com/147259/2021/10/toyota-to-assemble-fuel-cell-modules-at-kentucky-plant-in-2023/>

- **New catalysts for fuel cells**

- Scientists in the Fraunhofer IAP's research division CAN have now developed stable and efficient catalysts and optimized their production process – in the HiKAB project, short for "Hierarchical Composite Nanoparticle Systems for Application in Fuel Cells", funded by the German Federal Ministry for Economic Affairs and Energy BMWi. "We have converted the batch process into a continuous production process," says Dr. Christoph Gimmler, department head at Fraunhofer IAP.
- The researchers have also optimized the catalyst material itself. "We have replaced part of the platinum with a less noble and thus less expensive metal," Gimmler specifies. This not only has a positive effect on material costs, but also allows the catalyst to work more efficiently and increases its service life.

<https://www.chemeurope.com/en/news/1172976/new-catalysts-for-fuel-cells.html>

- **Nikola inks North American hydrogen fueling station construction agreement**

- Nikola Motor has announced the signing of a memorandum of understanding (MoU) with Opal Fuels for the construction and operation of hydrogen fueling station locations across North America.

https://www.hydrogenfuelnews.com/hydrogen-fueling-station-nikola/8548625/?mc_cid=b184f849fc&mc_eid=70c1246d58

- **Plug Power and SK E&S partner up to boost green hydrogen economy in Asian markets**

- Plug Power is a leading turnkey H2 solutions provider for the global green hydrogen economy. SK E&S is a part of the SK Group in South Korea. Through the joint venture they've formed together, the companies are entering into a collaboration for providing H2 fuel cell systems, fueling stations, electrolyzers and green H2 to Asian markets, such as South Korea.

https://www.hydrogenfuelnews.com/green-hydrogen-plug-power/8548656/?mc_cid=c50115282d&mc_eid=70c1246d58

- **International Energy Agency says hydrogen investment falling far short of net zero**

- According to the IEA, the current hydrogen investment has reached only about one quarter of the total \$1.2 trillion needed by 2030 in order to reach the 2050 net zero goals. So far, countries worldwide that have implemented H2 strategies have committed about \$37 billion, said the "Global Hydrogen Review 2021". Moreover, the private has committed to investing \$300 billion. Clearly, this is nowhere near where the IEA says the total needs to be in order to meet net zero commitments for 2050.

<https://www.hydrogenfuelnews.com/hydrogen-investment-iea/8548641/>

- **Hyundai Mobis invests \$1.1 billion for 2 new hydrogen fuel cell system plants in Korea**

- Incheon, just west of Seoul and Ulsan plants will begin production in 2nd half 2023 with an annual capacity of 100,000 hydrogen fuel cell system
- The world's largest fuel cell production capacity will help Hyundai Mobis to diversify business and tap into construction machinery and logistics equipment

<https://www.wagmtv.com/prnewswire/2021/10/07/hyundai-mobis-invests-11-billion-2-new-hydrogen-fuel-cell-system-plants-korea/>

- **Panasonic rolls out new commercial hydrogen generator in Japan**

- The H2 KIBOU launch follows on the heels of the rollout of the company's ENE-FARM household fuel cell cogeneration system. That technology uses H2 extracted from natural gas for power generation. The ENE-FARM technology has been incorporated into the commercial unit as well.

https://www.hydrogenfuelnews.com/hydrogen-generator-panasonic/8548636/?mc_cid=c50115282d&mc_eid=70c1246d58

Palladium

- **Car sales plunge as chip shortages choke off supply**
 - New car sales plunged over the last three months in the United States despite strong demand, as the shortage of computer chips and other supply chain issues caused shutdowns at auto factories and choked off the supply of vehicles.
 - General Motors reported sales fell a third from a year-ago last quarter, and they were off 40% from the same quarter of 2019 before the pandemic roiled the car market. Sales at Stellantis, the company formed by the merger of Fiat Chrysler and France's PSA Group, fell 19% from a year ago, and 27% from the pre-pandemic period.
<https://www.cnn.com/2021/10/01/business/auto-sales-third-quarter/index.html>
- **China's used car sales rise 40.4% in January-August**
 - China's used car sales climbed 40.4 percent in the January-August period from the year-earlier level, data from the Ministry of Commerce showed.
 - The sales volume is 22.8% higher than that for the same period of 2019 or the pre-pandemic level.
<http://www.chinadaily.com.cn/a/202110/02/WS6157e3f4a310cdd39bc6ce4a.html>

PGM Minor Metals (Rhodium, Iridium, Ruthenium, Osmium)

- **Not bad for a perfect storm: PGM leaders unfazed by rhodium price collapse**
 - PGM mining executives said today that the correction in metal prices since mid-year was not cause for panic as they were still 40% above the average basket price in 2019. They also said the changing nature of demand from internal combustion engines to battery driven vehicles held no concerns for the sector partly because of the time it would take for this transformation in demand, and also because PGMs had a place in fuel cell technology – an alternative battery technology.
<https://markets.businessinsider.com/news/stocks/not-bad-for-a-perfect-storm--pgm-leaders-unfazed-by-rhodium-price-collapse-10599718>
- **Ruthenium: Monash/Hokkaido team produces diesel blend fuel via CO2 hydrogenation in methanol over new catalyst**
 - Researchers from Monash University and Hokkaido University have developed a method to produce dimethoxymethane (DMM)—a diesel blend fuel currently of great research interest—via CO2 hydrogenation in methanol over a novel ruthenium-based catalyst. DMM thus produced could be used as a fuel in a conceptual circular carbon cycle when produced using direct-air-capture CO2 and green hydrogen.
<https://www.greencarcongress.com/2021/10/20211008-monash.html>
- **Iridium: Schaeffler AG: Schaeffler develops new technologies for the industrialization of hydrogen production**
 - Schaeffler develops new technologies for the industrialization of hydrogen production
 - - Schaeffler is the consortium lead for the sub-project "Stack Scale up - Industrializing PEM Electrolysis" of the H2Giga hydrogen flagship project
 - - The sub-project aims to develop new, scalable technologies and production processes for PEM-low-temperature electrolysis stacks
<https://menafn.com/1102941052/Schaeffler-AG-Schaeffler-develops-new-technologies-for-the-industrialization-of-hydrogen-production>

Clean Energy General News (New Section)

- **Silver reserves will deplete in 20 years, what happens after that? Matt Watson**

- Kitco Interview with David Lin: There is only enough silver in reserves to last another 16 to 20 years, and that's not counting exponential demand growth due to the electrification of the economy, said Matt Watson, founder of Precious Metals Commodity Management.
<https://youtu.be/flegDmRKl9I>
- **Vanadium redox flow batteries with purported LCOS of \$0.10/kWh**
 - Singapore-based VFlowTech has secured funds to scale up manufacturing of its vanadium redox flow batteries. The company currently offers three modular products that can be scaled to multi-megawatt-hour systems.
<https://www.pv-magazine.com/2021/10/06/vanadium-redox-flow-batteries-with-purported-lcos-of-0-10-kwh/>
- **China can ensure a 1.5C world – and continue to dominate the global clean energy supply chain**
 - A report by the IEA laying out two routes for China to reach net zero attempts to persuade policymakers to gun for that goal by 2050, rather than ten years later, and dangles the prospect of continued global dominance as the main reward on offer.
 - Matt: This study from the IEA comes at a time that China is actively pursuing energy sources including coal at all costs to underpin winter supply needs should make us all sceptical.
<https://www.pv-magazine.com/2021/10/05/china-can-ensure-a-1-5c-world-and-continue-to-dominate-the-global-clean-energy-supply-chain/>
- **THE MOSAIC APPROACH: a Multidimensional Strategy for Strengthening America's Critical Minerals Supply Chain**
 - The United States faces a troubling scenario when it comes to the supply chain for critical minerals. Rapidly increasing demand, under-developed national resources, intense international competition, and years of neglect in this issue area place the U.S. at a distinct disadvantage vis-à-vis China in securing access to the metals and Rare Earth Elements that are vital for the energy transition and for geopolitical ambitions. This paper reflects the dialogue sustained by a high-level group of stakeholders in the summer of 2021 and argues that the United States must take a number of key steps to make the critical minerals supply chain more resilient
https://www.wilsoncenter.org/sites/default/files/media/uploads/documents/critical_minerals_report_October2021.pdf
- **Congo's \$6 Billion China Mining Deal 'Unconscionable', Says Draft Report**
 - Democratic Republic of Congo should renegotiate its \$6 billion infrastructure-for-minerals deal with Chinese investors, according to the draft of a report commissioned by a global anti-corruption body of governments, companies and activists.
 - The draft, seen by Reuters, describes the deal that was first signed in 2008 as "unconscionable" and urges Congo's government to cancel an amendment signed secretly in 2017 that sped up payments to Chinese mining investors and slowed reimbursements of investment in infrastructure.
<https://money.usnews.com/investing/news/articles/2021-10-08/congos-6-billion-china-mining-deal-unconscionable-says-draft-report>
- **Twiggy's court win opens Pandora's box**
 - WESTERN Australia's mining industry is facing an unprecedented crisis following a recent landmark lawsuit won by billionaire Andrew Forrest that could mean hundreds or even thousands of mining tenements granted to industry have never existed.
<https://www.miningmonthly.com/exploration/news/1418602/twiggy%E2%80%99s-court-win-opens-pandora%E2%80%99s-box?>

BEV / LiB Battery Market News

- **Tesla TSLA Q3 2021 vehicle delivery numbers**
 - Tesla delivered 241,300 electric vehicles during the third quarter of 2021, the company said Saturday. Analysts predicted that Tesla would deliver around 220,900 electric cars during this

period, according to estimates compiled by StreetAccount as of September 30. The company produced 237,823 cars in the period ending September 30, 2021, Tesla said in its report.

<https://www.cnbc.com/2021/10/02/tesla-tsla-q3-2021-vehicle-delivery-numbers.html>

- **GM announces new battery facility to develop lithium-metal and solid-state cells**
 - GM announced today that it is building a new battery facility in Michigan to develop lithium-metal and solid-state battery cells.
 - The new facility will be called Wallace Battery Cell Innovation Center after Bill Wallace, who led the team that designed and released GM's advanced automotive battery systems in the Chevrolet Volt 1, Volt 2, Malibu Hybrid, and Bolt EV before he died of cancer in 2018.
<https://electrek.co/2021/10/05/gm-new-battery-facility-develop-lithium-metal-solid-state-cells/>
- **Corazon Mining: developing a large-scale nickel sulphide project**
 - Corazon is developing its Lynn Lake project in Canada into a long-life nickel sulphide producer
<https://www.mining-journal.com/partners/partner-content/1418979/corazon-mining-developing-large-scale-nickel-sulphide-project>
- **What's The Situation Regarding Recycling Of Lithium-Ion Batteries From E-mobility?**
 - Jodok Reinhardt, CEO and founder of Librec, a company that provides technology for "closed-loop" recycling of large lithium-ion batteries (LIBs) from e-mobility, discusses where we are currently and what developments are being made in this sector.
<https://autorecyclingworld.com/whats-the-situation-regarding-recycling-of-lithium-ion-batteries-from-e-mobility/>
- **Nissan And Waseda University In Japan Testing Jointly Developed Recycling Process For Electrified Vehicle Motors**
 - New process efficiently recovers high-purity rare-earth compounds from motor magnets, practical application targeted for mid-2020s toward carbon-neutral goal Nissan Motor Co., Ltd. and Waseda University today announced the start of testing in Japan of a jointly developed recycling process that efficiently recovers high-purity rare-earth compounds from electrified vehicle motor magnets. The testing is aimed at enabling practical application of the new process by the mid-2020s.
<https://autorecyclingworld.com/nissan-and-waseda-university-in-japan-testing-jointly-developed-recycling-process-for-electrified-vehicle-motors/>
- **What Is Black Mass In Relation To Recycling Lithium Batteries?**
 - Jacques David talks to ICM AG about the management of the so-called Black Mass produced from the treatment of lithium batteries ahead of the workshop at ICBR 2021 in Geneva on 24th September.
<https://autorecyclingworld.com/what-is-black-mass-in-relation-to-recycling-lithium-batteries/>

Regards –