
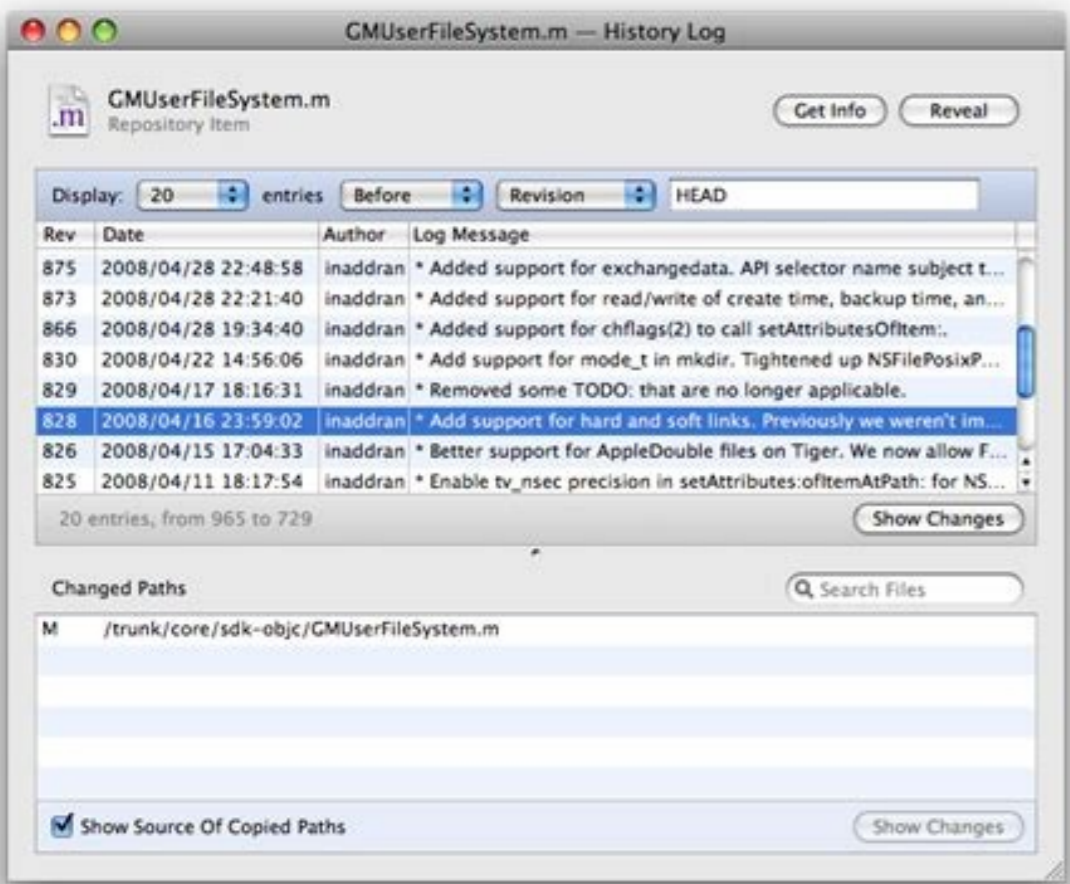


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Lithium-ion battery pack prices fell 89% from 2010 to 2020, with the volume-weighted average hitting \$137/kWh. Underlying material prices will play a larger role in the future, but the introduction of new chemistries, new manufacturing techniques and simplified pack designs keeps prices falling. Greater recycling in steel, aluminum and plastics accounts for a 2% drop in emissions, greater building efficiency 0.5%, and growth of bioenergy for sustainable aviation fuel and shipping another 2%. New demand for hydrogen in 2050 is just 190 million metric tons in our Gray Scenario, compared with 1,318 million tons in the Green Scenario, where it increases to around 22% of total final energy consumption, compared with less than 0.002% today. A core part of the BNEF analysis is constructing sector by sector emissions budgets to achieve net-zero in 2050 with an orderly transition. This is a 1.75 degree equivalent budget that implies a 3.2% reduction each year to 2030 and a swift reversal of recent trends: emissions rose 0.9% a year from 2015 to 2020. Despite the expected rapid rise in EV sales, most countries are still not on track to bring road transport emissions to zero by mid-century. Maximum EV charging speeds are also rising. Getting on track for net-zero emissions in 2050 means deploying commercially available abatement technologies in each sector this decade. The rest is made up of dedicated nuclear plants that power electrolyzers producing so-called 'red hydrogen'. Our Red Scenario assumes smaller, modular nuclear is deployed to complement wind, solar and battery technology in the power sector, with dedicated nuclear plants manufacturing so-called 'red hydrogen'. Road transport emissions must fall 11% by 2030, then 80% below 2019 levels in 2040. All those EVs add electricity demand, but not as much as you might think. Contact us Share To continue, please click the box below to let us know you're not a robot. This scenario also sees an EV-dominated fleet by 2050, but 39% of passenger vehicles still burn fuels. High-level findings of NEO 2021 are available in a free executive summary, simply complete the form below to receive access instructions via email. Number of countries that have announced plans to phase out sales of internal combustion vehicles. See the executive summary below to find out more on the implications of EV adoption for energy markets, raw materials, emissions, charging infrastructure and more. Seb Henbest BNEF Chief Economist Matthias Kimmel Head of Energy Economics Jet Callens Energy Economics Amar Vasdev Energy Economics Tifenn Brandily Energy Economics With support from: Julia Attwood, Sanjeet Sanghera, James Frith, David Doherty, Meredith Annex, Kyle Harrison, Annabel Wilton, Xiaoting Wang, Martin Tengler, Atin Jain, David Lluís Madrid, Colin McKerracher, Richard Chatterton, Andrew Turner, Sisi Tang, Nikolas Soulopoulos, Takehiro Kawahara, Kwasi Ampofo Want to learn how we help our clients put it all together? This picture varies by segment. BNEF Clients BNEF clients can access the full report, its breakdown by technology and region, as well as the underlying Excel data and previous editions. In the Red Scenario, which prioritizes nuclear power, there is 7,080GW of nuclear capacity by 2050. Another 14% is achieved with greater use of electricity in transport, in heating for buildings and in providing lower-temperature heat in industry. Read the full report Colin McKerracher Lead author @colinmckerrache Aleksandra O'Donovan Electric vehicles Nick Albanese Shared mobility @NickRAlbanese Dr. Nikolas Soulopoulos Commercial vehicles and freight David Doherty Oil impacts Ryan Fisher Charging infrastructure Corey Cantor Electric vehicles @CBC727 Dr. James Frith Batteries @JamesTFrith Andrew Grant Shared mobility @agrant49 Jinghong Lyu Vehicle demand Dr. Kwasi Ampofo Metals and mining Allen Tom Abraham Two and three wheelers Additional authors: Alejandro Zamorano-Cadavid, Nannan Kou, Will Edmonds, Josh Landess, Komal Kareer, Takehiro Kawahara, Ali Izadi Want to learn how we help our clients put it all together? In our Green Scenario, which prioritizes clean electricity and green hydrogen, wind and solar grow to 15% of primary energy in 2030, 47% by 2040 and 70% in 2050, split 62% wind and 38% PV. Just under half of that is used to generate electricity in the end-use economy, where smaller, more modular reactors complement renewables. This is split between green hydrogen production, which takes 49%, and 51% that is consumed directly in the end-use economy. This is about 19-times the nuclear power capacity installed globally today. In our Red Scenario, nuclear makes up a whopping 66% of primary energy in 2050, compared with 5% today. The last internal combustion vehicles need to roll off the line around 2035, and even that will require some early retirements of older vehicles in the 2040s. Carbon capture and storage technologies, or CCS, can be applied across a variety of processes that emit carbon dioxide, including power generation and aluminum, steel and cement production. But urgent action is needed on heavy vehicles in all countries. Each of our net-zero scenarios describes major transformations in the primary energy supply. Widespread use of CCS captures over 174 gigatons of carbon dioxide over the outlook to 2050, in our Gray scenario. The report draws on our team of specialists around the world and looks at scenarios for how these trends will impact the automotive, energy, infrastructure and battery materials markets over the coming decades. In this scenario, 100% of the world's road fleet runs on electricity or hydrogen by that year. Contact us Average battery energy density is rising at 7% per year and new chemistries are hitting the market faster than ever. Across all scenarios, the use of electricity in industry, transport and buildings raises its share of total final energy to just below 50% in 2050, from 19% today. But in the Green Scenario, where electricity is also used to produce large quantities of hydrogen, power generation is twice as large again - more than 121,500TWh, or roughly 4.5-times 2019 levels. For industry and buildings it's 16% and 12% down by 2030 and 58% and 55% by 2040. In our Economic Transition Scenario, EVs of all types add 5,000TWh of electricity demand by 2050. In our Economic Transition Scenario, EV adoption is primarily driven by techno-economic trends and market forces, with no new policy measures introduced to support their growth. Road transport is one of the largest contributors to global CO2 emissions. In many advanced economies, EVs prevent overall electricity demand from falling. The power sector needs to make the greatest progress over the next decade, reducing emissions by 57% from 2019 levels by 2030, and then 89% by 2040. Our Green Scenario is a net-zero pathway where so-called 'green hydrogen' complements greater electricity use, recycling and bioenergy. Skip to content The Electric Vehicle Outlook is BloombergNEF's annual long-term publication looking at how electrification, shared mobility and autonomous driving will impact road transport from now out to 2050. In our Green Scenario the market opportunity for renewables is staggering: Hydrogen must scale rapidly from its current very small base, but the size of its role varies widely by scenario. Together these show that global energy-related emissions need to drop 30% below 2019 levels by 2030, and 75% by 2040, to reach net-zero in 2050. Municipal buses, two-wheelers and three-wheelers are almost on track to get to zero emissions by 2050, even in the Economic Transition Scenario. More than three quarters of the effort to cut emissions in the next nine years falls to the power sector and to faster deployment of wind and solar PV. As a result, electricity generation is almost 62,200TWh in BNEF's Gray Scenario, more than double the 2019 total. Our new Net Zero Scenario looks at what is needed to reach 'net-zero' emissions in road transport by 2050. To continue, please click the box below to let us know you're not a robot. The following milestones will need to be achieved by 2030 to be on track to reach net-zero by mid-century: Electrification plays a large role. In contrast, in our Gray Scenario, where widespread use of carbon capture and storage means coal and gas continue to be used, fossil fuels decline just 2% a year to 52% of primary energy supply in 2050, with wind and PV growing to 26%. In the Net Zero Scenario, demand reached 8,500TWh globally by 2050. Almost fully electrifying all of road transport adds just 25% to global electricity demand in 2050. Passenger cars and light commercial vehicles are on a positive trajectory, but will still need more policy support. Today, some 83% of primary energy is fossil fuels, while wind and solar PV account for 1.3%. While the first 1,000 gigawatts of wind and PV took twenty years to deploy, getting to net-zero emissions in our Green Scenario will need about 1,400GW of renewables to be deployed every year, on average, for the next three decades. This year's analysis has been designed to support strategy development and long-term planning, especially in the lead-up to COP26 in November. Batteries keep getting better. As soon as 2030, nearly 60% of new car sales must be zero emissions, to stay on track for the Net Zero Scenario. Skip to content The New Energy Outlook (NEO) is BloombergNEF's annual long-term scenario analysis on the future of the energy economy. It covers light-duty passenger vehicles, commercial vehicles, buses, and two/three-wheeled vehicles. This edition presents three climate scenarios that meet the Paris Agreement and achieve net-zero emissions in 2050. Our Gray Scenario assumes greater use of electricity and renewable power is complemented by carbon capture and storage technology and allows for the continued use of some fossil fuels.

Download this app from Microsoft Store for Windows 10 Mobile, Windows Phone 8.1, Windows Phone 8. See screenshots, read the latest customer reviews, and compare ratings for Bloomberg. 28/04/2022 · Bloomberg places it at about \$740. Another day like Tuesday, when Tesla fell by \$121.60, would put Musk perilously close to that point. Another issue for shareholders is that new distraction for Musk is the last thing they need, given their ... 12/04/2022 · Earthstone did not have a recent sustainability report. Chesapeake did not publish a 2020 sustainability report but on December 1, 2021, launched a new ESG website that includes an online sustainability report and 2020 ESG metrics; Chesapeake Energy, "Chesapeake Energy Corporation Launches New ESG Site; Enhances Reporting Transparency and Outlines Path for ... 20/04/2022 · Pakistan has appointed a new finance minister ahead of key talks with the IMF. Mr. Ismail confirmed his appointment via text message after his 37 cabinet members were sworn in and economic aid to ... The Business Journals features local business news from 40-plus cities across the nation. We also provide tools to help businesses grow, network and hire. 01/05/2022 · Bloomberg Media launches Bloomberg UK with a website, video series, podcast, and a summit in 2022, to compete with The Financial Times and The Sunday Times Katie Robertson / New York Times: Slate names Hillary Frey, a former top editor at HuffPost, as its new editor in chief. Slate has not had an EIC since Jared Holt stepped down in January 2022 21/04/2022 · Dublin, April 21, 2022 (GLOBE NEWSWIRE) -- The "Global Mobile Gaming Market (by Operating System, Device & Region): Insights & Forecast with Potential Impact of COVID-19 (2022-2026)" report has ... 10/05/2022 · The Bloomberg Billionaires Index is a daily ranking of the world's richest people. Details about the calculations are provided in the net ... Report: Sony is working on a PlayStation program to let select partners insert ads within free-to-play games, similar to a reported Microsoft effort for Xbox — Sony is reportedly planning its own program to insert ads into games. — After last week's report that Xbox is looking to include ... The Business Journals features local business news from 40-plus cities across the nation. We also provide tools to help businesses grow, network and hire. 04/04/2022 · According to the report, which cited research from Apptopia, downloads are now at 8,000 per day from the initial 170,000, while daily active users over the last week were 513,000. 12/04/2022 · Earthstone did not have a recent sustainability report. Chesapeake did not publish a 2020 sustainability report but on December 1, 2021, launched a new ESG website that includes an online sustainability report and 2020 ESG metrics; Chesapeake Energy, "Chesapeake Energy Corporation Launches New ESG Site; Enhances Reporting Transparency and Outlines Path for ...

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