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Monthly
Newsletter
from
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Dear Readers,

Welcome to **NewsEffect** –
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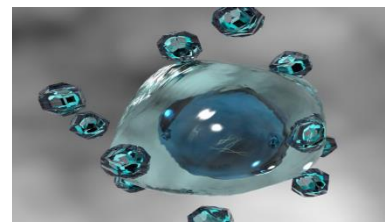
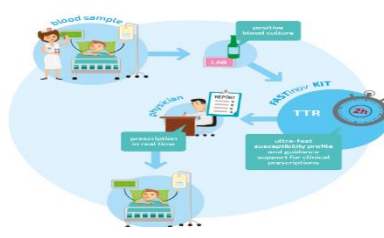
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Green Manufacturing



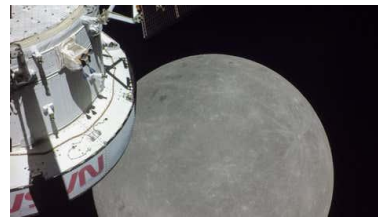
- [BMW: Cars Must Be Green Across The Entire Supply Chain. BMW considers decarbonizing production is a key factor. "We are going for renewable energy instead of natural gas in our factories."](#) continues Dr Becker. "We want to reduce the footprint. That includes the production of minerals as much as the electricity footprint of electric cars. We want to cut our own emissions by 80%, the so-called Scope One and Two, meaning the energy we use ourselves, like the gas that we burn or electricity that we purchased. And we want to reduce the footprint of the supply chain by 20%.
- [Budget 2023 | Expect extension of corporate tax rebates for green manufacturing.](#) There are a couple of things to watch, one there is an extension of the corporate tax rebates for green manufacturing. In this whole green manufacturing renewable space, Reliance has a huge investment that they have made Rs 75,000 crores.
- [Green hydrogen manufacturing to come under PLI scheme: R K Singh.](#) The Centre will bring in a production-linked incentive (PLI) scheme in coming months to give impetus to manufacturing of green hydrogen and its key component electrolyser, Union Power, New, and Renewable Energy Minister R K Singh said on Thursday. The minister was speaking a day after the Union Cabinet approved an initial outlay of Rs 19,744 crore for the National Green Hydrogen Mission.
- [Luminous to build India's first green solar panel factory in Uttarakhand.](#) Luminous Power Technologies on Friday announced its plan to build the country's first green energy-based solar panel manufacturing facility in Uttarakhand. The new manufacturing plant located in Rudrapur is expected to be fully operational by the end of this year, a company statement said.
- [Tsingtao Brewery Shanghai Minhang Co was recently listed as a "2022 Shanghai Green Manufacturing Model Firm,"](#) the only of its kind in Minhang District. "Starting from 2020, we've invested more than 10 million yuan (US\$1.48 million) annually improving our facilities and technology, while carrying out energy saving and emission reduction," said Yang Delong, chairman of the trade union of Tsingtao Brewery Shanghai. "Currently we save about 1-2 kilowatt-hours of electricity while manufacturing 1 ton of beer. All the lamps inside the factory have also been changed to solar-powered ones," Yang added.
- [Tesla to Build EV Trucks in Nevada. Tesla Inc. plans to invest more than \\$3.6 billion at its 5.4-million-square-foot giga factory here.](#) The automaker will build two new facilities at the site, which is located just east of Reno. One factory will mass-produce 4680-type cylindrical battery cells. Tesla claims the plant will have a capacity to produce enough batteries for 1.5 million light-duty vehicles annually. As per Tesla, the Class 8 truck is capable of traveling up to 500 miles per charge, accelerating from 0 to 60 mph in 20 seconds and recharging up to 70 percent of its range in 30 minutes. It features a unique design, including a centrally located driver's seat that is flanked by two display screens.
- [Ilika leading £8M project on high silicon content electrode SSBs for Evs.](#) Solid-state battery company Ilika Technologies is leading a 24-month, £8-million (US\$9.9-million) Faraday Battery Challenge collaboration project. The HISTORY (High Silicon content anOdes for a solid-state batteRY) project will start on 1 February 2023 and focus on integrating high silicon content electrodes into Ilika's Goliath SSB (solid state battery) for electric vehicles, to enable automotive-level performance..

Disruptive Technology Leads



- Bayer AG and Google Cloud announced a collaboration to drive [early drug discovery that will apply Google Cloud's Tensor Processing Units \(TPUs\)](#), which are custom-developed accelerators designed to run cutting-edge machine learning models and computationally-intensive workloads, to help accelerate and scale Bayer's quantum chemistry calculations. The theory of quantum mechanics applied to computer-aided drug discovery enables the in-silico modelling of biological and chemical systems with high accuracy, and therefore has the potential to help identify novel drug candidates. The objectives of the collaboration are to accelerate and scale quantum chemistry calculations using [Google Cloud's TPUs](#) and to demonstrate fully quantum mechanical modelling of protein-ligand interactions. The results will determine the scientific and economic viability of large-scale density functional theory calculations for practical applications.
- [FASTinov has collaborated with Beckman Coulter Life Sciences](#) to bring [ultra-rapid 2h-AST disruptive technology](#) to clinical microbiology laboratories. Under the agreement, while commercializing its products now CE-marked, FASTinov will partner with Beckman Coulter Life Sciences to offer its DxFLEX flow cytometry analyzer to its microbiology customer base. In addition, Beckman Coulter Life Sciences will install, provide training and service the instrument at customer sites.
- [Motion AI Tech From The Film 'Avatar' Being Used To Track Rare Diseases](#). The new system that was used in the film Avatar uses [artificial intelligence \(AI\) to analyse body movements](#). It can also reportedly diagnose diseases twice as quickly as doctors, the report adds. The system has reportedly been in development for 10 years and has been tested on patients with Friedreich's ataxia (FA) and Duchenne Muscular Dystrophy (DMD) in two separate studies.
- [Eyenovia Reveals Positive Evidence That Optejet® Delivery Technology Decreased Inflammation From Preserved Glaucoma Solutions Compared to Drops](#). The study found that the expression of Pro-Inflammatory cytokines and chemokines was decreased in two out of three cytokines with the latanoprost+BAK treatment administered via [Optejet technology](#) compared to latanoprost+BAK administered via standard drops. In these early findings, the Optejet® technology appears better than latanoprost+BAK administered via standard drops in reducing inflammatory processes and pathways.
- [Lipid Nanoparticle Technology May Advance Gene Therapy for Blindness](#). A team of researchers at Oregon Health & Science University have developed a new gene therapy approach using [lipid nanoparticles coated with a peptide](#) to deliver strands of mRNA to light-sensitive cells in the eye, called photoreceptors. To treat blindness, the mRNA will be engineered to create proteins able to edit vision-harming gene mutations.

Disruptive Technology Leads (Contd.)



- [AMD announces Ryzen 7040 series processors with on-chip AI for laptops, industry's first mobile x86 processor to feature an AI on-chip.](#) AMD claims that the new processor can deliver up to 30 hours of battery life and will outperform competitors like the Apple M1 Pro in some instances. The Ryzen 7040 series is based on the 4nm process and will be available for consumers from March 2023.
- [Vermont-based OVR Technology showcased a VR goggles that allows users to smell anything from a romantic bed of roses to a marshmallow roasting over a fire at a campsite.](#) The headset contains a cartridge with eight primary aromas that can be combined to create different scents. An earlier, business-focused version primarily for marketing fragrances and beauty products is scheduled to release later this year.
- [At CES2023, Samsung Display unveiled its Flex Hybrid is a new prototype device with a display that's both foldable and slidable.](#) Samsung Display says the Flex Hybrid can expand from a 10.5-inch 4:3 display to a 12.4-inch screen with a 16:10 aspect ratio.
- [Samsung's mobile division \(MX\) is expected to announce its first in-house mobile chipset next month,](#) in conjunction with the introduction of the Galaxy S23 series. This new chip might be the holy grail for Samsung, as rumours claim the firm is done with Exynos chips for good. According to a recent leak, Samsung may release details about its forthcoming high-end CPU in February. The new chip will be created using a second- or third-generation 3nm gate-all-around (GAA) fabrication method from Samsung Foundry. Additionally, the tech giant is said to have assembled a team of over a thousand experts, which includes an experienced Apple semiconductor specialist.
- [For the first time, Singapore launches a 3D printed component into space.](#) Singapore has established itself as a player in the sector with the launch of its first 3D-printed space component. Qosmosys, a global private spacetechnology company with its headquarters in Singapore, served as the project's project manager. To introduce the first locally created 3D printed part, they worked with NuSpace and Creatz3D Singapore. The team decided to adopt additive manufacturing since it is more affordable than the standard approach, CNC/metal sheet forming, which requires time-consuming folding and sawing.
- Withings, known for their sleek smartwatches, released its U-scan health device. [U-scan is at-home, hands-free, urine lab to be mounted on a toilet and provides test results using Wi-Fi.](#) The U-Scan consists of two parts: a reader and a replaceable cartridge. Once the reader detects user is peeing, it uses a microfluidic circuit to take a small sample. The rest then gets dumped and the whole thing gets "cleaned" when you flush. It has a thermal sensor to differentiate between pee and toilet water as well as low-energy radars to detect who is urinating. The Cycle Sync cartridge measures luteinizing hormone (LH), pH levels, and hydration levels via urine specific gravity. The Nutri Balance cartridge also measures pH and hydration in addition to ketones and vitamin C.
- At CES2023, Icoma launched A mini transformable e-bike dubbed Tatamel. [Tatamel is a fully customizable electric motorbike that folds up into the size of a briefcase.](#) Tatamel bike serves as a power source and charges phone or any supported device via USB-C.

IP News



• [NMIMS receives patent for novel ocular formulation for glaucoma treatment.](#) A patent for OCUSERT, a novel ocular formulation for the treatment of glaucoma, has been awarded (Patent No. 416859, Application no. 201721032534) to Dr Bala Prabhakar, Dean Shobhaben Pratapbhai Patel School of Pharmacy & Technology Management (SPPSPTM), along with other inventors. The OCUSERT formulation addresses issues by providing sustained release of the active drug over a longer period of time. This development has the potential of commercial applicability and could significantly improve the treatment options available for patients with glaucoma.

• [Inspira™ Technologies was Granted Patent by U.S. Patent Office for the INSPIRA™ ART System's Convertible Dual Lumen Cannula Device and Method of Use.](#) The patent approval includes 20 claims that were found to be novel, with inventive step and industrial applicability. The newly patented convertible dual lumen cannula is expected to be a core component of the INSPIRA™ ART system, a potential new mode of acute respiratory care under development, designed to reduce the need for invasive mechanical ventilation allowing the patient to remain awake and maintain spontaneous breathing. The dual lumen cannula device is planned to be utilized during INSPIRA ART treatment with awake patients, potentially facilitating a safer and more comfortable cannulation procedure. For example, by inserting the INSPIRA ART convertible dual lumen in the jugular vein located in the neck, we believe that this will potentially contribute to patient benefits and enhance the INSPIRA ART system's usability and comprehensive medical value to both patients and medical staff.

• [Rykindo is approved as an extended-release injectable suspension to treat schizophrenia.](#) The US Food and Drug Administration (FDA) has approved Luye Pharma Group's Rykindo (risperidone) as an extended-release injectable suspension to treat schizophrenia in adult patients. Rykindo has also been approved as a single agent or as adjunctive therapy to lithium or valproate to treat bipolar I disorder in these patients. Developed using Luye Pharma's microsphere technology platform, Rykindo is a bi-weekly long-acting risperidone injection. It is claimed to be the first advanced therapy from the company's central nervous system (CNS) product portfolio for marketing in the US.

• [New Alzheimer's Drug Lecanemab Granted Accelerated Approval.](#) The compound, lecanemab (Leqembi) is a monoclonal antibody (mAb), part of a new class of treatments that target the underlying mechanism of disease. It was approved using the FDA's accelerated approval pathway. Fellow mAb aducanumab (Aduhelm), approved in 2021, failed to find favor with insurers and was not approved by the European Medicines Authority (EMA). It remains to be seen whether Leqembi's more promising trial data will give it a smoother path to acceptance. Leqembi was tested in a clinical trial called CLARITY AD. The drug was assessed for its ability to slow cognitive decline in 1,795 people with mild, early-stage Alzheimer's and those with the precursor condition mild cognitive impairment.

IP News (Contd.)



• [Adidas lost a trademark case filed against Thom Browne](#), It seeking to stop the American designer Thom Browne from using four stripes logo on its products. The sports clothing and accessories maker claimed that the luxury brand Thom Browne's logo, which has four stripes was very similar to that of Adidas' signature trademark. Browne's designs feature four horizontal, parallel stripes.

• [Tech giant Sony plans to release a monitoring app for smart TVs and streaming devices that will disable sideloaded piracy software](#). As the firm utilises Android TV as the base for its smart TVs, the tech giant has reportedly submitted a new patent application to prohibit piracy applications on smart TVs and streaming devices.

• [The Delhi High Court has observed that Subway cannot claim any exclusivity over the word 'Sub' and Dismissing its prayer for interim injunction](#). Dealing with a case alleging that 'Suberb' infringes the registered trademarks of the American fast food restaurant franchise, the court said it is clear that 'Suberb' cannot be said in any manner of speaking to infringe any of word marks or device works of Subway.

• [The Indian Institute of Technology \(IIT\) Kanpur filed a record 107 intellectual property rights \(IPRs\) in 2022](#). The institution has submitted the most IPRs in its history for the second year in a row. One US patent application, 80 patents, 23 design registrations, two copyright applications, and one trademark application are among the 107 IPRs that have been submitted. The patents cover innovations in several fields, from nanotechnology to MedTech, which covers a number of healthcare solutions. A disease-modifying medication combination for the treatment of osteoarthritis, an electrochemical device for glucose measurement, are among the other patents that were submitted this year.

• [The Lamborghini automaker submitted a new car design to a North Macedonian intellectual property organisation, which featured various designs of the vehicle](#). Lamborghini new supercar is expected to be launched in March, but an early glimpse has leaked. The images were published on the World Intellectual Property Organization's Global Design Database. Motor 1 found the filing and captured the images, but they have since been withdrawn from the WIPO website. A mid-mounted engine is clearly visible through a transparent cover, reiterating that it will be powered by a V12 engine with hybrid support and breathing through hexagonal exhausts.

• [Samsung Electronics Co. failed in its attempts to persuade an East Texas federal court to put an end to the high-stakes patent litigation brought by the California Institute of Technology against it while it opposes the patents' validity before the U.S. Patent and Trademark Office](#). In its 2021 complaint, the school claims that Samsung's Galaxy phones, tablets, watches, and Wi-Fi-enabled items including televisions and refrigerators infringe its patents relating to data transmission.

• [The Division Bench of the Delhi High Court in the case of Corza International & Ors. vs Future Bath Products Pvt Ltd & Anr.](#) reiterated that the registered proprietor of a trademark can sue another registered proprietor of a trademark alleging deceptive similarity and the Courts are competent to grant an ad-interim injunction. It was further opined that the Court will not interfere with the exercise of discretion of the its first instance and substitute its discretion except where the discretion.

GLANCE @ EFFECTUAL



2023 Kick-OFF - We at [Effectual Services](#) are thrilled to announce that our company has been Great Place to Work-Certified. This is the first time we have been Certified and without the help of our outstanding employees and the way they manage our clients and business globally, it would not have been possible.

No jury or individual can sway the outcomes of the Great Place to Work® Assessment, which is the "Gold Standard" in workplace culture evaluation. Based on a thorough evaluation carried out independently by [Great Place to Work® Institute \(India\)](#), our organization has received this recognition.

We are extremely delighted to be recognized as a top employer who fosters a fantastic work environment for employees, as this will help future generations recognize our company as a place with a strong corporate culture.

At the heart of building a great workplace culture lies TRUST.



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