

ŞİŞECAM'S PORT MANAGEMENT INVESTMENT IN THE US



FOREWORD \$1\$ECAM MAGAZINE



My Dear Colleagues,

In this issue of our magazine, where we proudly share many of our achievements, you will also see the news about our most recently announced important investments.

Our first investment decisions this year, which will accelerate Şişecam's growth, were in the mining field. In this context, we will invest in a new sand preparation facility with an annual capacity of 490 thousand tons, located on the land of

our new flat glass facility, which is under investment in Tarsus and is targeted to start production in 2025, to meet the raw material needs of this facility. We will realize an annual capacity increase of 165 thousand tons in our existing limestone and dolomite processing facility in Mersin. With these investments, which we will realize with an investment of approximately 1.5 billion TL (82 million dollars), we aim to provide close and sustainable resources for our production processes with our facility, while aiming to eliminate the risks of today's deteriorated supply chain with a proactive management approach before they occur.

Another important move we announced in the past days was the port operation investment we will make in the USA in the field of logistics. We have decided to enter a new business area with our current partner in the USA, Ciner Group. As part of this investment, Şişecam Chemicals USA will become a shareholder of 50 percent of Denmar US LLC, which will run the Stockton Port Management Project to establish the logistics infrastructure to be used in the potential export of our ongoing soda ash investment. We aim to start operations in 2027 in line with the natural soda ash investment in the USA, which is planned to go to production gradually until 2028.

We held the first CEO Talks meeting of 2023 on March 20, where we came together with you and shared the developments regarding Şişecam. In our meeting organized as a hybrid, we evaluated the year and shared our strong targets for 2023 with the presentations of our Strategy Assistant General Manager Mrs. Özlem Vergon and our Financial Affairs Deputy General Manager Mr. Gökhan Güralp. On March 29, we held our 87th ordinary general assembly. After a challenging year in which the impact of change and transformation was felt, we talked about the successful performance of Şişecam, which has not deviated from its ambitious goals despite all the changing dynamics. We shared with our investors our 2022 Annual Report titled 'In Pursuit of the Future', which reveals Şişecam's value-creating activities and its vision for a sustainable future.

On the other hand, with the awareness that change and transformation are the most important pillars of our growth, we started the Operational Excellence-oriented Development Program. I believe that Şişecam employees who complete this program will play a major role in spreading the pure production and operational excellence approach throughout the company. This project will accelerate our achievement of our goal of supporting new responsibilities and internalizing the understanding of continuous improvement in Şişecam ecosystem.

As an institution that progresses in the light of science and reason, we continue to follow and lead all the developments that catch up with the era and even go beyond.

I hope you enjoy reading the new issue of Şişecam Magazine.

M. f. Aun Z

Görkem Elverici CEO

3



Owner & Executive Editor Ayşegül Akyarlı

Headquarters

İçmeler Mahallesi, D - 100 Karayolu Caddesi, No: 44A 34947 Tuzla/İSTANBUL **T** 0 850 206 50 50

Published for the employees of Türkiye Şişe ve Cam Fabrikaları A.Ş. and subsidiaries.

Production:

AjansMedya Merkez Mahallesi Seckin Sokak Z Ofis No: 2 - 4A 325 Kağıthane - İstanbul **T** + 90 212 287 19 90 info@timeoutistanbul.com www.ajansmedya.com

Production Director Seda Pekçelen

> Art Director Belma Saraççı

Contributors Gizem Ünsalan

All rights reserved. The unauthorized reproduction is prohibited.

Published digitally for the employees of Türkiye Şişe ve Cam Fabrikaları A.Ş. and its affiliates.

> TÜRKİYE Company.

MONTH



NEWS





Anıtkabir's Automobile Showcases and Tower Windows Renewed





TECHNOLOGY

The Dazzling

Future of the Auto World



INTERVIEW The Duo Representing Turkey at the Venice Biennale of Architecture: Oral Göktaş and Sevince Bayrak







INNOVATION Meet Carbon Capture Technology



SUSTAINABILITY The Latest in the Solar Revolution









T R E N D The Awe-Inspiring Talents of Generative AI











INFOGRAPHIC Şişecam's Global Production Capacity

NUDE PRODUCTS **FEATURED** ON THE BBC

NUDE PRODUCTS ENCHANTED AUDIENCES OF THE BRITISH REALITY COMPETITION SHOW INTERIOR DESIGN MASTERS.

NUDE products were featured on Interior Design Masters, the famous interior design show on BBC with more than 2.5 million viewers. The competition saw 10 talented designers compete, with NUDE products adding style to the living spaces they made over. Hosted by Alan Carr, the competition features industry leaders as guest judges who join Michelle Ogundehin each week.





FSUMMIT REALIZED WITH CONTRIBUTIONS OF NUDE

NUDE SPONSORED THE EVENT'S MOST STIMULATING PANEL, FEATURING A PRESENTATION BY THREE-MICHELIN-STARRED CHEF THOMAS BÜHNER.

The International Tourism Gastronomy Investments and Hospitality Summit FSUMMIT took place at the NEST Convention Center in Antalya from March 20 to 21, 2023. In keeping with this year's theme of "All Together Destination & Branding." three-Michelin-starred chef Thomas Bühner took part in a panel titled "The Impact of Brand Restaurants on the Destination." Sponsored by NUDE, the panel discussion drew great interest from FSUMMIT attendees."

A SPRING-INSPIRED PHOTO SHOOT IN LONDON

NUDE PRODUCTS PHOTOGRAPHED IN LONDON FOR THE NEW SEASON.

NUDE organized a photo shoot in London highlighting its spring-summer collection with photographer Jon Green and stylist Elkie Brown. Held in a warm, home-like set, the photo shoot featured various NUDE designs, from home and lifestyle products to unique drinkware options and lighting solutions. The aspirational shots from this pleasant photo shoot in London, as well as highlights from the collection, were featured in the Living newsletter.



.....

NUDE MAKES AN IMPACT AT THE INSPIRED HOME SHOW

NUDE ATTRACTED ATTENTION AT THE WORLD-RENOWNED HOUSEWARES TRADE SHOW.

.....

NUDE attended North America's largest homewares show, the Inspired Home Show. The trade show took place from March 4 to 7 in Chicago, USA, with NUDE promoting its Island collection, its stylish glasses, and its unique homewares. The Island drinking glasses were a hit thanks to the quality of their pure, lead-free crystal as well as their elegant and simple lines.









ŞİŞECAM DREW ATTENTION AT THE APLF DUBAI FAIR

.....

ONE OF THE WORLD'S TOP THREE SODA ASH PRODUCERS AND A GLOBAL LEADER IN CHROMIUM CHEMICALS, ŞİŞECAM ATTENDED THE ASIA PACIFIC LEATHER FAIR IN DUBAI LAST MONTH.

The only global player to operate in all core segments of the glass industry, Şişecam is the most popular producer in the global basic chromium sulphate industry with its Tankrom® brand. Şişecam attended the Asia Pacific Leather Fair (APLF) in Dubai from March 13 to 15 to promote its high-quality Tankrom® branded products. Bringing together industry professionals in chemicals, leather processing, fur, synthetic materials, tanning, footwear machinery, as well as testing technologies and labs, the trade fair also saw Şişecam provide visitors with information about its production processes at its plants in Türkiye and Italy. Şişecam's Tankrom® and Ecol-Tan® branded products drew great attention at APLF Dubai. Tankrom® AB inorganically reduced (33% basicity)

Tankrom® SB organically reduced b (33% basicity)

Tankrom® FS high basicity basic chr (42% basicity)

Tankrom® F24 high basicity basic chr (50% basicity)

Tankrom® OB / Of self basifying basic ch

Ecol-tan® innovative basic chrom ecological solution-pic higher chrome exhaust

.....

ZAK WORLD OF FAÇADES TOOK PLACE IN ISTANBUL

THE ŞİŞECAM-SPONSORED EVENT BROUGHT INDUSTRY PROFESSIONALS TOGETHER.

The Istanbul edition of the Zak World of Façades, which was sponsored by Şişecam, focused on sustainable innovations and current technological solutions geared toward façades in the construction industry. Moderated by Şişecam, the event featured a detailed discussion of the approach taken in the design and application of the façades for the Istanbul International Finance Center-Vakıfbank Project. The event also brought together industry professionals.





ULTRA-LIGHT MINERAL WATER BOTTLE RECEIVES AWARD FROM IMSAD

\$İ\$ECAM RECEIVED THE THIRD-PLACE AWARD IN THE ENVIRONMENT CATEGORY AT THE COMPETITION ORGANIZED BY THE ASSOCIATION OF TURKISH CONSTRUCTION MATERIAL PRODUCERS.

Established to represent the construction industry in both Turkey and abroad, the Association of Turkish Construction Material Producers (Türkiye IMSAD) previously organized competitions in 2017, 2018, and 2020 to recognize construction material producers' sustainability efforts. Held with the same goal in mind, this year's Türkiye IMSAD Investment in the Future Awards for the Private Sector saw Şişecam compete with three projects. Produced using sustainable and innovative technologies, Şişecam's light glass packaging project won the third-place award in the competition. The award-winning 110-gram ultra-light mineral water bottle is known for being the most lightweight mineral water bottle produced and sold in Türkiye to date.





ŞİŞECAM WINS TWO AWARDS AT PRODEXPO

\$İ\$ECAM WON TWO AWARDS IN DIFFERENT CATEGORIES IN THE BEST PACKAGING COMPETITION HELD AS PART OF THE 30TH PRODEXPO FAIR.

The largest specialized exhibition in Russia and Eastern Europe, the Prodexpo trade show promotes high-quality foodstuffs to the domestic market. Held in Moscow each year, the show also hosts a ceremony where awards are given out in different categories. Şişecam received two awards in the ceremony, which was held at Expocentre Moscow on February 6. The first award recipient was the Chaotic Wave of Tinted Glass on Clear Glass project by Ruscam Glass Packaging Holding's Kirishi Plant. The project stands out thanks to the high level of protection it provides against counterfeit products. The second award went to the Football-Themed Bottles project, which drew plenty of interest for its dynamism, movement, and energetic design.

ŞİŞECAM EXECUTIVES IMPRESS WITH THEIR ACCOMPLISHMENTS

AWARDS GO TO COMPANY'S CMO, CFO, AND CTO.

Many of Şişecam's executives have impressive accomplishments to their name. Şişecam's Chief Sales Officer Ebru Şapoğlu recently appeared on Fortune Turkey's "2023 Fortune 500 CMOs" list. Featuring the most successful marketing leaders among companies on the Fortune 500, the list was put together with an eye toward the CMOs' projects in Europe and around the world as well as their education, career path, influential projects in the industry, and their contribution to the company's budget. Şişecam's Chief Information Officer Gökhan Kıpçak and Chief Financial Officer Gökhan Güralp were featured in two lists put together by BMI with the support of DataExpert: the two were included in the 50 Most Effective Technology Leaders and 50 Most Effective CFOs lists, respectively.



Ebru Şapoğlu Chief Sales Officer



Gökhan Kıpçak Chief Information Officer

ŞİŞECAM ACADEMY WINS THE BEST AWARDS

FOUNDED IN 2016, ŞİŞECAM ACADEMY RECEIVED AN AWARD FOR TRAINING AND DEVELOPMENT AT THE BEST AWARDS ORGANIZED BY THE ASSOCIATION FOR TALENT DEVELOPMENT (ATD).

A global player in the glass and chemicals industries, Şişecam added a brand new award to its roster of prestigious titles. Known for its focus on employee training, Şişecam Academy received an award for training and development at the BEST Awards, which was organized by the Association for Talent Development (ATD). In line with its vision of being a development center to support employees who add value to the organization, Şişecam Academy has trained more than 52,000 people to date, which played a role in its ranking among the world's biggest corporate academies. Active since 2016, Şişecam Academy is known for undertaking projects that continuously support the development of its employees and the stakeholders in its ecosystem.



Gökhan Güralp Chief Information Officer



ANITKABİR'S AUTOMOBILE SHOWCASES AND TOWER WINDOWS RENEWED

ŞİŞECAM CONTRIBUTES TO THE PRESERVATION OF ATATÜRK'S MEMORIES FOR FUTURE GENERATIONS.

Anitkabir's tower windows and the automobile showcases for Atatürk's official cars were recently renewed.

The delivery ceremony for the last of Atatürk's restored official cars took place in Anıtkabir, his final resting place. The Museum Commander of Atatürk and the War of Independence Museum, Teacher-Colonel Kasım Mehmet Teke, presented Şişecam representatives with a thank you plaque.

With the support of our business partners, we are proud to have completed the replacement of the automobile showcase windows, which were manufactured exclusively at Şişecam facilities, as well as the windows of 19 towers, including the one housing the command vehicles.







.....

ŞİŞECAM'S PORT MANAGEMENT INVESTMENT IN THE US

TOGETHER WITH THE CINER GROUP, \$İŞECAM WILL UNDERTAKE A PORT MANAGEMENT INVESTMENT IN THE US. SET TO MEET THE POTENTIAL LOGISTICAL NEEDS OF THE COMPANY'S US-BASED SODA ASH INVESTMENT, THE PROJECT WILL ALSO SUPPORT \$İŞECAM'S SUSTAINABLE GROWTH TARGETS.

To meet the potential logistical needs of Şişecam's natural soda ash investment in the US, the company has decided to invest in a new business segment with the Ciner Group. Sisecam Chemicals USA will partner with Denmar US LLC, which will undertake the Stockton Port Management Project with an annual capacity of 5 million tons, to form the logistical infrastructure for potential exportation activities pertaining to the ongoing soda ash investment. The Stockton Port Management investment is expected to begin operations in 2027, in line with Sisecam's natural soda ash investment in the US which is expected to become operational in phases by 2028. With this new investment, Şişecam will guarantee sustainability by establishing a supply chain that will enable it to reach its natural soda ash export targets in the US.

Sişecam's Chairman and Executive Member of the Board Prof. Dr. Ahmet Kırman made the following statement regarding Sişecam's strategic investment decision to support the targets of its



Prof. Dr. Ahmet Kırman Şişecam Chairman and Executive Member of the Board

ongoing natural soda ash investment in the US: "In 2021, we announced our decision to expand our presence in the US natural soda ash market. The growing market and increasing demand continue to prove the validity of our investment. Today, natural soda ash is among Sisecam's most profitable business segments. The 5-million-ton natural soda ash capacity of the Pacific Project, which is continuing in line with plans, will become operational in phases by 2028. At that point, the total capacity of Sisecam and Ciner's partnership in US-based soda ash operations will reach 7.5 million tons. We determined that access to multiple ports was important in terms of lowering the costs of operating in the international market, facilitating operational management, and eliminating risks associated with the supply chain. To that end, we decided to become a partner in the California-Stockton Port Management Project, whose permits and licenses were obtained by Denmar US LLC. The Stockton Port

Management Project is expected to have an initial capacity of 3 million tons a year in 2027, with plans to reach the full 5 million ton capacity by 2029."

SUSTAINABLE APPROACH TOWARDS RAW MATERIAL PROCUREMENT

ŞİŞECAM SUPPORTS ITS NEW FLAT GLASS INVESTMENTS IN MERSİN WITH A STRATEGIC INVESTMENT AIMED AT ENSURING THE SUSTAINABILITY OF RAW MATERIAL PROCUREMENT.

In line with its plans to bring its new flat glass investments in the Tarsus OIZ by 2025, Şişecam will build a new sand processing plant to meet its raw material needs. Additional plans include a capacity increase at the limestone and dolomite processing plant in Mersin. With these investments, Şişecam not only aims to provide a sustainable source for its production processes, but the company also seeks to eliminate any risks associated with the supply chain through its proactive management approach. Nearly TRY 1.5 billion was invested in the plants, which will be completed by September 2024. The sand processing plant is planned to have an annual capacity of 490,000 tons, while the Mersin dolomite-limestone processing plant will have an annual capacity of 655,000 tons after a 165,000-ton increase.







THE 87TH ORDINARY GENERAL ASSEMBLY TOOK PLACE

ŞİŞECAM'S FINANCIAL AND OPERATIONAL ACCOMPLISHMENTS IN 2022-DURING A YEAR OF GLOBAL FLUCTUATIONS-WERE DISCUSSED IN THE MEETING.

A global player in the glass and chemicals industries, Şişecam got together with its investors in the 87th Ordinary General Assembly to share its successful financial and operational performance in 2022, despite the challenging global fluctuations felt throughout the year.

The general assembly was held on March 29, 2023, with the attendance of Şişecam Chairman and Executive Member of the Board Prof. Dr. Ahmet Kırman and Şişecam CEO Görkem Elverici. During the meeting, shareholders were presented with Şişecam's 2022 Annual Report, titled "In Pursuit of the Future" to highlight the company's value-adding operations and its vision of a sustainable future.

In a statement made during the general assembly, Şişecam CEO Görkem Elverici touched upon the sudden and radical global developments over the past several years that have deeply impacted all our lives. Elverici highlighted Sisecam's steady progress toward its goals despite the changing dynamics, emphasizing the company's success in achieving unhindered growth despite global uncertainties.

SISECAM IN NUMBERS AT THE END OF 2022

OUR VALUE-ADDING INVESTMENTS

- sisecam acquired the Italian refractory producer Refel. The groundbreaking ceremony for the Hungary plant–Sisecam's first European glass packaging investment–took place. An investment for an additional patterned glass furnace and processing line in Mersin was announced. A capacity increase for the investment was announced before the year's end

AFTER CEO TALKS AND CEO GATHERINGS...

CEO TALKS AND CEO GATHERINGS TOOK PLACE IN MARCH.

CEO TALKS

The first hybrid CEO Talks after the pandemic took place on March 20 at the TUTOM Auditorium. More than 250 Şişecam employees took part in the event, with nearly 2,000 people joining online. The event started with an opening talk by Şişecam CEO Görkem Elverici; then, Chief Strategy Officer Özlem Vergon and Chief Financial Officer Gökhan Güralp delivered presentations, followed by a Q&A where employees had their questions answered.

CEO GATHERINGS

The first departmental CEO Gatherings meetings took place with the Communications department meeting on March 3 and the Research, Development and Quality Department's employees meeting on March 24. The events are planned to continue across other departments, as well.



The Research, Development and Quality Function Team at The CEO Gatherings event.



Chief Strategy Officer Özlem Vergon (left) and Chief Financial Officer Gökhan Güralp (right).



The Communications team at the CEO Gatherings event.



.....



TRAININGS BEGIN FOR THE OPERATIONAL EXCELLENCE DEVELOPMENT PROGRAM

DESIGNED IN LINE WITH \$I\$ECAM'S OPERATIONAL EXCELLENCE GOALS, THESE TRAININGS WILL CONTINUE ON A GLOBAL SCALE FOR THE NEXT TWO YEARS.

Designed with the aim of encouraging employees to take on new responsibilities and reinforcing the concept of continuous development, the Operational Excellence Development Program kicked off in March. The program includes various educationaldevelopmental methods such as educational modules, project monitoring gatherings, coaching sessions, and management presentations. Held in five languages-Turkish, English, Russian, Bosnian, and Bulgarian-and expected to serve nearly 350 people, the twoyear program includes Master Black Belt, Black Belt, Green Belt, Data Analysis/Optimization, and Kaizen Leadership trainings. Employees who successfully complete the program will play an active role in the company-wide popularization of a lean manufacturing and operational excellence approach.





.....

WE GOT TOGETHER WITH YOUNG TALENTS











THE GLOBAL YOUNG TALENT PROGRAM 'TOGETHER' KICKED OFF ITS SIXTH SEASON

In February, 260 Together interns began their sevenmonth internship experience. which will take place at the Şişecam Headquarters, the Şişecam Science, Technology and Design Center, as well as various plants. The opening event was held online, giving interns the chance to learn more about Sisecam and get to know one another better. Interns who joined the orientation program met with the Information Technologies and Human Resources Departments, who provided information about new strategies and investments. Şişecam interns can look forward to an internship period full of technical visits, inspiring talks, and meetings with different departments.

CFA LOCAL RESEARCH CHALLENGE FINALS

The finals for the local edition of the global CFA Research Challenge-which focused on Şişecam this year-recently took place. Following the five finalist teams' presentations to the jury, Koç University and Özyeğin University became the winners. The students received their awards from Şişecam CFO Gökhan Güralp and CHRO Şengül Arslan.

THE SECOND SEMESTER OF THE VOCATIONAL SCHOOL INTERNSHIP PROGRAM BEGINS

şişecam continues to
develop collaborations in all
of its regions of operation
to attract young talents.
Through partnerships
with vocational schools
at Trakya University,

Kırklareli University, Marmara University, Tarsus University, and the Sakarya University of Applied Sciences, Şişecam has welcomed a total of 40 interns at the Glassware, Flat Glass, and Auto Glass plants in Kırklareli; the Camiş Glass Packaging Plant in Tuzla; the R&D Center; and the Mersin Regional Lab.

INFORMATION TECHNOLOGIES SESSIONS FOR EMPLOYEES' KIDS IN BURSA

Targeting the children of Şişecam employees, the project began with the IT teams' support. As part of the pilot program, company representatives got together with the high school-aged kids of employees at two Sisecam plants in Bursa. At the event, IT managers and teams discussed their own experiences and how they decided to pursue this field, as well as giving advice to the young attendees. Following this enjoyable and inspiring session at the plant, the second phase of the project was held online with employees' university-aged kids.

CALL FOR APPLICATIONS FOR THE SEVENTH SEMESTER OF THE FIRST STEP SUMMER INTERNSHIP PROGRAM

Şişecam is currently accepting applications for the First Step Summer Internship Program, which welcomed 3,250 interns in the past six years. Geared toward third- and fourthyear university students, the program allocated part of its yearly quota to students who survived the earthquakes. The program is accepting applications via LinkedIn until April 16.

17

MARCH 8TH INTERNATIONAL WOMEN'S DAY EVENTS

\$İ\$ECAM HELD AN AID CAMPAIGN FOR EARTHQUAKE SURVIVORS.

Şişecam banded together for the earthquake region during March 8th International Women's Day. An aid campaign was organized by the Şimdi! (Now!) teams for survivors of the Kahramanmaraş-based earthquakes. Aimed at meeting women's basic hygiene requirements, the campaign helped provide relief in the earthquake region. As part of the March 8th campaign, all aid collected at Şişecam's plants was sent to the campaign headquarters at the Mersin Soda Ash Plant. Meanwhile, the global Now! teams held a pared-back version of their annual event at all production plants. Şişecam continues to support employment for women in line with its principles of diversity-inclusivity and equal opportunity.







.....



ŞİŞECAM EMPLOYEES TOOK PART IN WINTER RUN ISTANBUL

MEMBERS OF THE ŞİŞECAM FAMILY IMPRESSED WITH THEIR RANKINGS.

Held in various metropolises around the world each year, this year's Winter Run took place in Istanbul for the first time. The Şişecam Sports and Social Activities Club also took part in the 10-kilometer race, with Gözdenur Kılıç, Nagihan Atabey, and İnci Çelikbaş achieving high placements in the women's category. Meanwhile, Cumhur Karakuş, Ender Çavaş, and Ümit Benlice were the three Şişecam employees with the highest rankings in the men's category.



.

LAST MONTH AT THE ŞİŞECAM ÇAYIROVA SPORTS CLUB

THE ŞİŞECAM ÇAYIROVA SPORTS CLUB'S ROWING AND CANOE TEAMS COMPLETED ANOTHER SUCCESSFUL MONTH.

Organized by the Turkish Rowing Federation The "Büyükler" Turkish Cup Rowing Competition and the National Team Selections were held in Lake Köyceğiz from March 14 to 16. In the "Büyükler" Turkish Cup competition, Şişecam Çayırova Sports Club athlete Zeynep Beken came in third place in the Women's Lightweight 1x category.

The Şişecam Çayırova Sports Club also took part in the Durgunsu Canoe Olympic and National Team Candidate Selection Competition, which appears on the Turkish Canoe Federation's 2023 events calendar and which took place in Köyceğiz on March 18 and 19. With a total of two trainers and seven athletes in attendance, Şişecam Çayırova Sports Club athletes received the second- and third-place rankings in the 1000-meter and 500-meter competitions. This significant accomplishment was followed by a review of the athletes' performance, after which the athletes Selin Sevin, Naci Oğuzhan Baydemir, and Ergun Vatan were invited to join the National Team Candidate Camp in Köyceğiz. Congratulations to all our athletes!

19



ŞİŞECAM MAGAZINE



WE TOOK A LOOK AT THE INCREDIBLE ELECTRIC VEHICLES EAGERLY AWAITED BY CAR ENTHUSIASTS.

Many of the biggest players in the auto industry have long been investing in electric vehicles. There is plenty of buzz surrounding the electric vehicles currently on the market. In the future, we will see brand-new vehicles that make a world of difference through both their technology and design. Held in Las Vegas in January, the Consumer Electronics Show (CES) was dominated by electric vehicles. Experts state that users' interest in electric cars far exceeds expectations, which is reflected in the sales. For instance, the number of electric cars sold in the US during the first half of 2022 rose by nearly 50%. Given their reduced environmental impact when compared to internal combustion engines-as well as rising gas prices-electric vehicles appear more and more attractive to users each day. Without further ado, let's take a look at the electric vehicles by auto giants which are expected to hit the market in the near future.

DELOREAN ALPHA5

This is an incredible electric car that can make you feel like the star of your own sci-fi movie. Noted for its design above all else, the DeLorean Alpha5 resembles a spaceship. As a brand that found worldwide fandom thanks to the "Back to the Future" movies, DeLorean's Alpha5-showcased at this year's CES-is as futuristic as a car gets. With gull-wing doors that resemble the legendary DMC-12 model in the movies, this awe-inspiring car can reach a speed of approximately 141 km in nearly 4.35 seconds. So, with only 9,351 of these cars planned for production, how can you buy a DeLorean Alpha5? First, you have to join the Alphas Club (at a cost) via DeLorean's website, where you can follow the instructions and purchase your production slot on the DeLorean Exchange. The reason why only 9,351 Alpha5s will be manufactured is because this was the number of DeLorean cars manufactured in the past. In DeLorean's return to the industry after a hiatus of close to 40 years, this EV venture is







exciting not just for "Back to the Future" fans but for all car enthusiasts in general. Those who reserve a production slot for the DeLorean Alpha5 now can expect to take delivery of their vehicle next year.

BMW iX1

The brand-new all-electric BMW iX1 is an eye-catching vehicle thanks to its versatile and functional design. The iX1 can reach a range of up to 120 km after only 10 minutes of recharging, and is also notable for recharging up to 80% of its range within 29 minutes at public high-speed charging stations. As you learn more about the impressive charging capabilities, you may be wondering where you can charge your car, but don't worry: the number of charging stations built in collaboration with BMW is growing by the day. You may have encountered some of these charging stations at various shopping malls and parking lots. During delivery, BMW also provides the necessary equipment to charge your car at home. Offering a more intuitive experience with fewer buttons, the BMW iX1 also comes with a curved display to help you relax in the driver's seat. Noted for its majestic design, the BMW iX1 is expected to be offered for sale in Turkey in the first quarter of the year.

MINI CONCEPT ACEMAN

A brand that's amassed a global

fan base of its own thanks to its unique design, MINI debuted its MINI Concept Aceman model, which we will likely start seeing on the road in 2024. Combining classic and sporty design elements with craftsmanship, this model also stands out for its focus on sustainability. The car's upholstery surfaces and textiles are made out of recycled materials. Another fantastic detail is that the car's beautiful turquoise color can appear brighter or darker, depending on the angle of light.





The car's three experience modes allow drivers to use the screens in brand-new ways. Noted for its functionality as well as its strong design, the MINI Concept Aceman also signals the brand's design aesthetic for the future. MINI plans to switch entirely to electric vehicle production by 2030.

JEEP AVENGER

Avenger is the first all-electric vehicle by Jeep. Suitable for both out-of-town trips and city use, this model stands out right away thanks to the contrast between the body color and the black roof. Praised for its compact design, the Jeep Avenger features comfortable black seats with yellow accent as well as multi-color ambient light to help you express yourself through color. What's more, you only need to charge your vehicle for three minutes to reach a range of up to 30 km, so you can charge it to last you all day during a short coffee break. The SUV also comes with a charging set. The compact design of this 100% electric

vehicle is already a hit with those who like to drive a Jeep in the city, and comes with ample storage space to make life a lot easier. The vehicle is expected to be offered for sale in Turkey this year.

ROLLS-ROYCE SPECTRE

The number one brand in the luxury car market, Rolls-Royce recently unveiled its all-electric model, Spectre. Expected to be made available toward the end of 2023, the vehicle's design reflects the elegance we've come to expect from Rolls-Royce. Marketed as the world's first ultra-luxury electric super coupé, the Rolls-Royce Spectre has already been met with plenty of interest worldwide, thus defeating the misconception that electric vehicles aren't popular in the luxury segment. Rolls-Royce plans to offer an ell-electric fleet of vehicles by 2030, and the Spectre is a strong step in that direction, combining craftsmanship with electric vehicle technology.





ORAL GOKTAŞ AND SEVINCE BAYRAK

THE DUO REPRESENTING TURKEY AT THE VENICE BIENNALE OF ARCHITECTURE:

İSTANBUL KÜLTÜR SANAT VAKFI

FROM MAY 20 THROUGH NOVEMBER 26, 2023, THE TURKISH PAVILION AT THE VENICE BIENNALE'S 18TH INTERNATIONAL ARCHITECTURE EXHIBITION WILL HOST "GHOST STORIES: THE CARRIER BAG THEORY OF ARCHITECTURE," CURATED BY SEVINCE BAYRAK AND ORAL GÖKTAŞ. WE SPOKE WITH SO? STUDIO FOUNDERS GÖKTAŞ AND BAYRAK ABOUT THE DETAILS OF THE EXHIBITION HELD WITH THE COORDINATION OF THE ISTANBUL FOUNDATION FOR CULTURE AND ARTS (IKSV).



Can we briefly get to know you first? Prior to your current position, what have you done in your architecture career so far? What were some of the turning points in your education and career?

We graduated from Istanbul Technical University's Faculty of Architecture in 2005. Like many teams looking to start a new business in the tumultuous atmosphere of our country to date, SO? has also had a non-linear journey. The idea for the Venice Biennale exhibition emerged prior to IKSV's open call, when we transformed the former swimming pool at the Istanbul Planning Agency's (IPA) Campus. In defining the project, we were inspired by Ursula K. Le Guin's Carrier Bag Theory. But the idea of turning it into an exhibition came about during our podcast discussion with Melis Cankara on "Hayalde hata olur mu?" ("Could dreams be mistaken?"), which was published by Arredamento Architecture and Manifold. We spoke with Melis about our mistakes and how we never tried to fit the seemingly disparate works we've done so far into a singular narrative. We started to think about whether there was a theory that could unite the projects we've done, even though they seem completely unrelated to one another. This discussion was the turning point for us to start writing the Carrier Bag Theory of Architecture.

Your project "Ghost Stories: The Carrier Bag Theory of Architecture" will be on display at the Turkish Pavilion of the Venice Biennale of Architecture from May 20 until November 26. Could you give us some details about the project and its conceptual framework? What can visitors to the Turkish Pavilion expect to find?

The aim of the project is not to obtain finished products but to draw attention to an existing problem and discuss alternative solutions. Transforming buildings instead of demolishing them is an approach that was brought to the global architecture agenda by Lacaton & Vassal, who received the Pritzker Prize in 2021. What's different from our approach is that, instead of demolishing, they recommend adding structures to transform collective housing units, which were built in the 1950s and '60s and are still in use. We, on the other hand, want to uncover the massive inventory of abandoned buildings in Turkey. We believe demolishing these buildings or leaving them to their own fate is not a solution,

and we want to treat them as a Laboratory of the Future. Actually, the exhibition has a duality in its essence as well as its name: "Ghost Stories" is for visitors who aren't architects or who will spend a short amount of time in the pavilion, while "The Carrier Bag Theory of Architecture" is more for architects or those who can devote more time to the pavilion. The first section includes the collective archive we formed as a result of our open call for "Ghost Stories." The second section will be a colorful one where we turn this extremely real and dark reality into a reservoir of hope for the future of our cities.

How did the idea for this project come about? What phases did you go through, from ideation and finalization to getting the opportunity to participate in the Biennale?

The open call for the Biennale has a format that is a bit uncustomary for the architecture community: in the first stage, you have to submit a well-prepared curatorial text and supporting images, rather than a well-drawn design. For a group of people who are accustomed to expressing themselves through drawing, it is a bit challenging to write. It also isn't easy to find something to latch onto in an

.....





architecture scene that's detached from Turkey's busy agenda. At our office, we've been thinking and creating concrete projects for the transformation of existing buildings for guite some time. That's why we decided to base our application on this existing know-how and experience. The seeds of The Carrier Bag Theory of Architecture were sown with the text Sevince wrote for a previous project where we transformed an existing structure. The Biennale application served as a catalyst for this seed to arow.

Your "Ghost Stories: The Carrier Bag Theory of Architecture" project draws inspiration from Ursula K. Le Guin's Carrier Bag Theory of Fiction. Could you briefly describe this theory for those who don't know? In what way did this theory inspire you, and how did it shape the project?

The Carrier Bag Theory of Architecture is a title we

recommended as inspired by Ursula K. Le Guin, who adapted Elizabeth Fisher's Carrier Bag Theory of Evolution to fiction writing. Fisher suggests that, contrary to popular belief, humankind's first cultural tool may not have been a sharp, pointed object but a carrier bag, instead. Le Guin, on the other hand, says it's worth telling the stories of those gathering oats for their carrier bags instead of the mammoth-hunting scenes that have decorated cave walls since ancient times. We took these two texts to heart and suggested that we should question the images we've inherited as architects while making room for new images, even if they may not appear as powerful and beautiful as the ones before. In doing so. we wanted to express what's necessary for life to continue, even if it may appear ordinary and mundane when compared to

stories of heroism. We wanted

to take on this idea through neglected, ugly, abandoned buildings that could not be the protagonist of any architecturerelated story, as we believe this topic is an urgent matter for our cities.

The theme of the Venice Biennale's 18th International Architecture Exhibition is "The Laboratory of the Future." Could you tell us a bit about this theme? How does "Ghost Theory: The Carrier Bag Theory of Architecture" fit in with this theme?

Turkey is a true laboratory in terms of its diverse inventory of unused, abandoned buildings. From vacant airports to vacation resorts, schools, hospitals, collective housing units, offices, hotels, public buildings... There are similar issues and plenty of discussion surrounding them in other places throughout the world, and in Turkey we thought it might be very educational

to discuss the topic from the diversity angle, as these buildings can truly be "the laboratories of the future." In defining what a laboratory means. Lesley Lokko, the Curator of the Venice Biennale's 18th International Architecture Exhibition, gets to the root of the term, defining it not as a setting for scientific research but in relation to Richard Sennett's concept of a "workshop." Our recommendation is to view these idle structures as workshops where new programs and architecture projects can be developed.

As part of the project, you held an open call inviting people all over Turkey to document abandoned or vacant buildings. What sort of feedback did you receive? Was there a lot of interest in the open call? Which cities participated the most? We are receiving a great variety of responses to the open call,



both in terms of cities and typologies. There are idle structures in just about every city, and we are also hearing the stories circulating around town about the reasons why these they are idle. In fact, these stories are what make each of them interesting.

How will you use the photographs and videos submitted for the open call within the exhibition? Will you include all of them? Are you using these documents as is. or are you editing them? One of the purposes behind our open call for "Ghost Stories" was to document both the number of idle buildings and the variety of functions they could serve. Even though it's impossible to feature all of the photographs and videos submitted for the open call in the exhibition, we believe that the collective archive we've

formed of idle buildings from all over Turkey-ranging from hotels and hospitals to restaurants and schools-can help form a stronger public opinion for the reutilization of these buildings. The social media account for the project continues to serve as a platform to share this archive.

We normally don't care about abandoned or vacant buildings, passing them by without a thought. How are these buildings important for architecture?

Even though architecture is a tool of an industry and economic system that constantly tries to make room for itself by demolishing and rebuilding, it is also a discipline that has powerful tools to recommend alternative solutions and scenarios for the system. In other words, it contains the solution to a problem in which it plays a big role.

How can vacant or abandoned buildings be transformed and reintegrated to city life?

Cities-particularly those with a high population density-are in need of buildings to serve various public functions such as education, recreation, culture, etc. Using existing buildings to meet these needs instead of constructing new ones is a more economical approach that limits resource waste, thus reducing its impact on the planet. Instead of demolishing an existing building and disposing of the rubble in nature just to pour the same volume-or more-of concrete on the same foundation but in a different form, transforming existing buildings can change the fate of idle structures. On the other hand, we experienced devastating back-to-back earthquakes right in the middle of our project. Using the idle but sturdy inventory of buildings to temporarily house the thousands of earthquake survivors in need of housing is another option that should be considered.

What stage is your project at right now? How is your work going?

In keeping with its binary setup, the project involved a dual-stage research process, with a research and design team that grew day by day. Right now, we are at a stage where the data we obtained from our research-focused phase is becoming more conclusive, and we're working on the details of the exhibition.

What other projects are you currently taking on at the SO? studio, which you co-founded? What are some of your proudest achievements as SO?? At the office, we have actually

been working on concrete versions of the no-demo transformation projects we are exploring in the Biennale. Some of our completed transformation projects on existing structures include the Beylikdüzü Arts and Cultural Center as well as the Pool and Hangar spaces of the IPA Campus in Florya. Ongoing projects include the Istanbul Metropolitan Municipality (IMM) building in Sarachane as well as residential projects in Bodrum. In terms of citywide projects, we are collaborating with the IMM to transform the idle area near the Sishane metro exit. where there are remnants of the Genoese walls-we will open up the area for public use. We also have a few projects on the drawing board to transform abandoned and unregistered structures such as parking lots. warehouses, and production plants.

You previously designed the "Sky Spotting Stop" for Istanbul Modern. Your installation, "Lost Barrier," was shown in Rome. Your project for the 4th Istanbul Biennial, "Fold and Float," was shown at in MAXXI and at the Designmuseum Denmark. What are your plans for "Ghost Stories: The Carrier Bag Theory of Architecture" after it's shown in Venice? What are some of your aspirations or concrete plans for your career? For us, the most exciting part of the "Ghost Stories: The Carrier Bag Theory of Architecture" exhibition is that we'll be able to bring the discussion emerging at the Turkish Pavilion in Venice back to Turkey. Our open call for an archive of abandoned buildings is our first step toward this. Afterward, we plan to hold discussions about the different abandoned buildings in different cities, tackling the topic on a much wider and multidisciplinary platform.

27



MEET CARBON CAPTURE TECHNOLOGY



\$IŞECAM MAGAZINE



HAVE YOU HEARD ABOUT THE ROLE CARBON CAPTURE TECHNOLOGY COULD POTENTIALLY PLAY IN MITIGATING THE CLIMATE CRISIS? READ ON TO DISCOVER EVERYTHING YOU NEED TO KNOW ABOUT THIS EXCITING TECHNOLOGY AND THE WORLD'S FIRST CARBON CAPTURE PLANT ORCA, LAUNCHED BY CLIMEWORKS IN ICELAND.

The entire world has been dealing with extraordinarily hot weather well above seasonal averages for some time. To mitigate the devastating effects of this situation-which is a direct result of climate change-experts emphasize the importance of reaching net-zero in carbon emissions by 2050 every chance they get. While the question of what can be done beyond planting trees to reach net-zero has been a topic of discussion among both scientists and the public scientists for quite some time, brand-new technologies and ideas have emerged that seem poised to mark a new era. One such recently emerged advancement is carbon capture technology.

WHAT IS CARBON CAPTURE TECHNOLOGY?

Carbon capture and storage technologies have actually been used since the early 1970s in natural gas plants in Texas, United States. The reason why this technology recently came to the fore is because the Switzerlandbased company Climeworks recently commissioned the world's first and biggest carbon capture and storage plant named Orca in Iceland, billed as "the next step towards a climate-positive world." Before we dive into a detailed look at Orca, let's briefly touch upon the operation and benefits of carbon capture and storage technology. Often abbreviated as CCS, this technology could be summed up as a method of







reducing the amount of carbon emissions released into the atmosphere.

The main goal is to capture the carbon dioxide before it's released into the atmosphere and trap it within underground geological formations. A highly exciting technology due to its potential to slow down climate change, the process entails three key stages. First, the gases emitted by industrial activitiessay, by a power plant using fossil fuels-are captured. Then, with the help of a chemical absorber that contains a solvent, the carbon dioxide is separated from the rest of the gases. In the second stage, the isolated carbon dioxide is compressed and transported for storage via pipelines, roads, or ships. During the third and final stage, the carbon dioxide is stored somewhere far away from



the atmosphere, like within underground rock formations. In short, carbon capture technology allows us to prevent the carbon dioxide emitted by industrial facilities using fossil fuels from being emitted into the atmosphere.

THE WORLD'S FIRST CARBON CAPTURE AND STORAGE PLANT

Built right next to the Hellisheidi geothermal power plant in Iceland, Orca operates a little differently from the process we've just described. While CCS technology captures gases containing carbon dioxide immediately after they are emitted by industrial plants, Orca captures the carbon dioxide that's already in the air. This method is known as direct air capture (DAC). and at Orca, there are eight collector containers with a total annual carbon dioxide capture capacity of 4,000 tons. Orca supplies the heat and

electricity required for DAC from the geothermal power plant located nearby. Noted for its strategic location, the plant's design incorporates earth tones and natural materials to complement Iceland's unmatched nature. The Head of Technology at Climeworks, the company behind Orca, Nathalie Casas says, "Orca is Climeworks' biggest facility to date. This facility demonstrates that carbon dioxide removal on a large scale is both possible and necessary." Let's take a brief look at the capture technology used at Orca, which began operations in September 2021. Here, the process begins with large fans drawing air into a collector container, which is equipped with a filter that isolates the carbon dioxide. Once the filter is completely filled with carbon dioxide, the air flow from the outside is cut off, with temperature

inside the container reaching 100°C. Afterward, the carbon dioxide is ready to be captured and transported underground. The clean air inside the container (with the carbon dioxide removed), is released back into the atmosphere. The Orca team collaborated with Iceland-based Carbfix to transport the captured carbon dioxide underground. Once the transport is complete, the carbon dioxide reacts with basalt rock and is gradually absorbed.

THE ADVANTAGES OF ORCA'S TECHNOLOGY

It's not hard to imagine that carbon capture and storage technology is expensive. Meanwhile, there are experts who believe that CSS technology could encourage the use of fossil fuels. The DAC technology used at Orca comes with many advantages, the first being the ability to set up DAC plants anywhere. By contrast, CSS plants must be constructed near facilities that use fossil fuels. Additionally, the Orca plant takes up less land area as compared to other methods of mitigating the climate crisis, such as tree planting. For instance, in the same plot of land where an Orca plant could capture 4,000 tons of carbon dioxide per year, only 220 trees can be planted, which can absorb only 4.62 tons of carbon dioxide. In other words, we could say that an Orca plant using carbon capture technology is 1,000 times more effective than planting trees. Beyond all these advantages, the fact that several heavy industrial companies around the world have announced that they will use carbon capture technology to lower their environmental impact, as well as the positive outlook of countries such as Canada and the US on carbon capture technology, indicate that this innovation has a bright future.



Carbfix facilities that trap carbon dioxide underground





\$IŞECAM MAGAZINE

According to the International Energy Agency, it is estimated that the total solar power generation capacity in the world exceeds 179 terawatt hours.

MANY COUNTRIES ARE CURRENTLY WORKING AS HARD AS THEY CAN TO SWITCH TO CLEAN ENERGY. LET'S TAKE A CLOSER LOOK AT THE COUNTRIES AND INVESTMENTS THAT ARE PAVING THE WAY FOR SOLAR POWER GENERATION.

Noted for their ability to reduce carbon emissions and thus contribute to environmental protection, renewable energy sources are also preferred for their potential to reduce dependence on foreign energy sources. As a result, many countries are exploring ways to reduce their use of traditional sources of energy such as oil, natural gas, and coal in favor of renewable energy sources such as solar, wind, and hydro power. In addition to mitigating the effects of climate change, renewable energy could also help us overcome the global energy crisis. Join us as we take a look at the countries using solar power-one of the most popular sources of renewable energy-both efficiently and prevalently, serving as an example for the whole world.



The world leader in solar power generation, China has made remarkable investments in renewable energy. The country continues to make leaps in line with its goal of generating 33% of its electricity from renewable sources by 2025. When compared to other countries, China is far ahead in transitioning to clean energy. Any new initiative both serves as an example for other countries and demonstrates that it's possible to switch to renewable energy with the right investments. Currently holding the world's biggest renewable energy capacity, China supplies 400 gigawatts of it from solar power. Last year, China boosted its solar power capacity by 86 gigawatts, reflecting an increase of 62% as compared to 2021. This data reveals just how determined China is to fight climate change. In 2022, China invested more than USD 546 billion into projects that reduce carbon emissions. Naturally, these investments included the expansion of China's solar power capacity. One of the country's latest key initiatives in its transition to solar power is the launch of the country's largest solar photovoltaic base in the Tengger Desert. This project will reduce carbon emissions by nearly 4.66 million tons each year.



Tengger Desert, China.



Solar farm in Zhangbei.

33





UNITED STATES OF AMERICA

The United States is another country that has ambitious projects for switching to solar power, which is widely preferred as the cheapest source of electricity in the US. Thanks to a significant reduction in the costs associated with solar power systems, more individuals and organizations can benefit from clean energy nowadays. Solar power is currently more affordable, accessible, and prevalent than ever before in the US. The country's solar power capacity rose from only 0.34 gigawatts in 2008 to more than 90 gigawatts currently. As such, 3% of the country's electricity is supplied from solar

power. However, authorities caution that a great deal of progress must be made before solar power can be used to its full potential. One of the most exciting solar power plants in the US is the Solar Star in California. With a yearly energy production capacity of nearly 579 million watts, Solar Star can provide energy for up to 255,000 households, which is equivalent to taking 108,000 cars off the road.



Fukushima nuclear disaster in 2011, Japan focused on solar power projects, and in 2016 became the country with the second highest solar power capacity in the world. Given its dense population, Japan has limited space to devote to solar panels. In spite of this, the country successfully built brand-new facilities with a capacity of 8.7 gigawatts in 2020. One solution to the problem of space was to fill abandoned golf courses with solar panels. An inspiring example for the use of solar power in Japan is Chiba Ecological Energy, a farm where all crops are produced using solar power. Nearly 3,000 solar panels are used to produce energy, with the surplus energy sold back to the grid to help farm owners earn extra income. Japan also encourages companies to cover the rooftops of their buildings with solar panels. Even if there is little space left in the country to build solar power plants, it's not hard to imagine that investments in renewable energy will continue, with more creative solutions emerging over time.



EUROPEAN UNION COUNTRIES

Instead of looking at European countries' solar power capacities individually, let's take a general look at the European Union. The total capacity of solar power plants built throughout the EU in 2022 was 41.4 gigawatts. Germany was the country which made the biggest move during the





year, followed by Spain and Poland. Analyses suggest that Germany is one of the top-performing European countries in switching to clean energy. One significant indicator is that 41.1% of the country's electricity is generated from renewable sources, according to 2022 data. However, these advancements may not be enough for Germany to meet its 2030 goal of generating 80% of the country's electricity from renewable sources. This year, approximately 46% of Germany's electricity is expected to be generated from renewable sources. We should also mention one

of Spain's impressive steps toward solar power. Last year, the Spanish energy company Iberdrola commissioned Europe's largest photovoltaic plant in the Extremadura region. Constructed with an investment of more than 300 million euro, the plant's surplus energy will be used to meet the energy needs of the Spanish headquarters of large corporations across various industries. Meanwhile, in Poland, the construction of a 62-megawatt solar power plant ended in late 2022. One of the country's largest solar power facilities, the plant is expected to generate clean energy for more than 30,000 households.














Louis Vuitton, Artycapucine

ART BASEL

Initially organized in the 1970s by gallerists living in Basel, Switzerland, Art Basel has grown and improved over the years to become one of the world's biggest contemporary art fairs. Having moved beyond its hometown of Basel, the event currently welcomes art lovers and collectors in Miami, Hong Kong, and Paris, as well. A key player in the art scene as a global platform bridging galleries, artists, and collectors, Art Basel is often described as "the Olympics of the Art World." Hosting hundreds of galleries from all around the world each year, Art Basel fairs are also known to raise the profile of many participating artists. The fair transforms any host city into a fantastic center of attraction. This year, Art Basel will take place from June 15 to 18 in Basel and from December 7 to 9 in Miami Beach. The Paris edition, named Paris+ par Art Basel, will be held from October 19 to 22, 2023.

IT LOOKS LIKE 2023 ILL BE QUITE A BUSY YEAR. FOR THE ART WORLD. HERE, WE TAKE A LOOK AT THE AR<mark>T F</mark>AIRS TAKING PLACE ALL AROUND THE WORLD TO KEEP YOU IN-THE-KNOW.





THE ARMORY SHOW

One of the key events in New York's artistic and cultural scene since its inception in 1994, The Armory Show invites the world's leading international contemporary and modern art galleries to New York. A paradise of sorts for those who wish to keep up with current art world trends, The Armory Show also stands out for its curators' diligent approach and its corporate partnerships. The Presents section featured in this year's program is notable in that it features artist presentations by galleries which are a decade old at most. Three successful women from the business world serve as curators of three separate sections in The Armory Show, with Eva Respini taking on the role in the Platform section, Candice Hopkins in the Focus section, and Adrienne Edwards in the Curatorial Leadership Summit. One of the key events contributing to New York's status as a capital of culture, The Armory Show will take place from October 8 to 10.



.....









From media artist Anna Jermoalewa's exhibition.

.....

VIENNA CONTEMPORARY

Austria's leading international art fair Vienna Contemporary invites art lovers to Kursalon Vienna, one of the finest examples of Renaissance architecture that hosts various cultural and artistic events. Promises to serve as an event where visitors can explore contemporary art in depth through a selection of famous galleries and exciting new artists, Vienna Contemporary also stands out as a meeting point for Western and Eastern European contemporary art. On that note, the ZONE1 exhibition at this year's fair offers an intriguing selection of works by young Austrian artists. A must-visit destination for art lovers seeking exciting new discoveries, Vienna Contemporary will take place from September 7 to 10.





.....

.....

FRIEZE ART FAIR

One of the most noteworthy events on the global contemporary art calendar is undoubtedly the Frieze Art Fair, which is held in London, New York, Los Angeles, and Seoul. These international contemporary art fairs are best known for helping young artists and undiscovered galleries make a name for themselves. The Frieze brand operates across a wide spectrum. It all started with the launch of Frieze magazine in 1991. The first Frieze Art Fair was held in London in 2003, and the first Seoul edition was held last year. A huge platform for modern and contemporary art that brings together artists, galleries, collectors, and art lovers, Frieze also has an exhibition space, No.9 Cork Street, in London. This year, Frieze Art Fair will take place from October 11 to 15 in London, from May 17 to 21 in New York, and from September 6 to 9 in Seoul.



.....



THE EUROPEAN FINE ART FAIR (TEFAF)

Organized by the Netherlandsbased European Fine Art Foundation, TEFAF is another large-scale event that has its finger on the global art scene's pulse. The art fair is best known for fine arts, antiques, and design. Drawing hundreds of prestigious art dealers from nearly 20 countries, TEFAF events are definitely one of the best places to discover and purchase awe-inspiring works of art. In addition to works by masters and one-of-a-kind antique pieces, you'll also find works of contemporary art at the fair. This year, TEFAF Maastricht will take place between March 11 and 19. while TEFAF New York takes place between March 12 and 16.



Choupatte, Claude Lalanne.

TOKYO GENDAI

TOKYO'S NEW ART FAIR

.....

Tokyo is getting ready to host a brand-new art fair, Tokyo Gendai, in summer 2023. Expected to become the new meeting point for the international art world, the fair will host 80 galleries from all around the world. Set to take place from July 7 to 9, Tokyo Gendai will offer a full program that also includes studio visits and culturalartistic experiences.





THE AWE-INSPIRING TALENTS OF GENERATIVE

şişecam magazıne \setminus 43



GENERATIVE ARTIFICIAL INTELLIGENCE TECHNOLOGY IS ALL THE RAGE THESE DAYS. AFTER THE EMERGENCE OF MANY GROUNDBREAKING TECHNOLOGIES FROM DALL-E 2 TO CHATGPT, AI IS ONCE AGAIN ON EVERYONE'S MIND. LET'S TAKE A CLOSER LOOK AT THE FUTURE OF GENERATIVE AI TECHNOLOGY AS WELL AS SOME INTRIGUING VENTURES.

With the recent popularity of ChatGPT and the growing number of text-to-image software such as DALL-E, Stable Diffusion, and Midjourney, the concept of generative artificial intelligence is drawing more attention than ever before. A type of artificial intelligence (AI) technology, generative AI uses machinelearning algorithms to generate new and unique content in the form of image, video, text, and sound. To put it another way, generative AI can create brandnew content instead of analyzing existing data. Would you rather write code or prepare a caption for a social media post? With generative AI technologies, you

can do it all, and in a short amount of time. Experts state that the global generative AI market size is expected to reach USD 109.37 billion by 2030. Therefore, it wouldn't be wrong to say that the technology holds incredible potential, and will extend far beyond its use for entertainment. In other words, it looks like the growing worldwide prevalence of AI will fundamentally change workflows in different industries. Experts underscore that 2023 will see increased global integration of Al. Here, we've put together the current ventures that benefit from what could easily be called the technology of the future.







CHATGPT

Since ChatGPT has become the most talked-about technology in recent months, let's explore it in detail. Debuted by USbased AI research lab OpenAI last November, ChatGPT is essentially a chatbot that responds to user gueries. In other words, it is a type of AI that can chat with the user to generate content. According to OpenAI, ChatGPT-which is able to form a dialogue with the user-is a sister model to InstructGPT, a previously developed system that was trained to follow a set of instructions and deliver detailed responses. Currently still in its testing phase, ChatGPT is free to use at the moment, which enables the OpenAI team

to get feedback from a wider network of people to improve the system and make it safer. To start testing ChatGPT right away, all you have to do is visit chat. openai.com and create an OpenAl account. Of course, ChatGPT does have its shortcomings. The OpenAl team doesn't hesitate to warn users that, despite the precautions they've taken, the system can sometimes give false or misleading information, or share disturbing or biased content. According to the team, training the model to be more cautious may lead it to refuse to answer questions it otherwise could answer correctly. Although reasons such as these may disgualify ChatGPT as a reliable source of information, this

incredible AI tool has already found many uses around the world. For instance, a judge in Colombia used ChatGPT to rule in a trial, while Microsoft announced that it would utilize ChatGPT in automated e-mail replies. In January, it was announced that ChatGPT had reached 100 million users-as such, it wouldn't be an exaggeration to say that ChatGPT is rewriting the rules in the world of technology. We look forward to seeing how ChatGPT will continue to be used and how it will shape workflows in different industries.

MUSICLM

The brainchild of Google researchers, MusicLM is a brand-new AI tool that can turn text prompts into minutes-long

musical compositions. To put it simply, MusicLM is the musical version of OpenAI's DALL-E. MusicLM can even turn a whistle into a multi-instrumental piece. Google has already shared many samples with the public, with impressive tracks ranging from those generated through a few sentences of detailed description to those generated through two or three words. "Melodic techno," "Scottish folk song with traditional instruments," "time to meditate," and "electronic song played in a videogame" are only some of the text prompts used to generate music on MusicLM. Although Google has yet to offer MusicLM for public use due to concerns over copyright issues,





how this AI tool would alter the balances of the music world if it were to be released to the public is a topic of debate.

DESIGNERBOT

Developed by Beautiful.ai, DesignerBot is an AI tool that could potentially make life easier for those who frequently have to prepare presentations using programs like PowerPoint. Described by its developers as the future of presentation software, DesignerBot creates presentations using AI from start to finish. All you need is a topic or an idea, and DesignerBot will do the rest for you. You can use text prompts such as "design a pitch deck for a mobile app that sells concert tickets" or "create

a marketing plan for a social media rollout," then DesignerBot will quickly put together the presentation for you-thus promising to save teams a great deal of time in their business. Of course, you don't have to use the presentation generated by DesignerBot as is; you can edit the slides however you wish. In addition to creating presentations from scratch, DesignerBot also allows you to improve your content with Al-generated images. When you provide a text prompt, DesignerBot can generate a unique image you can add to your slide. This allows you to create much more visually impressive slides without having to scour the internet for images or create one on your own.







book Maps of Time: An Introduction to Big History

DAVID CHRISTIAN TÜRKIYE IŞ BANKASI CULTURAL PUBLICATIONS

The man who coined the term Big History-which refers to an academic discipline that offers a combined narrative for the history of the universe, the planet, and humankind-David Christian takes the reader on a head-spinning journey in this compelling book which offers a wealth of information. Considered to be the foundational text of Big History, "Maps of Time" breaks all the rules, uniting natural history and human history into a single, grand, cohesive narrative.





.....



musical Jekyll & Hyde

MAY 30

ANTALYA OPEN-AIR THEATER, ANTALYA

Want to see a fantastic Broadway adaptation? Featuring Hayko Cepkin and Elçin Sangu in the leading roles, the Jekyll & Hyde musical is ready for the Antalya audience! Staged with the accompaniment of a grand orchestra, the musical focuses on the struggle between good and evil. Based on Robert Louis Stevenson's classic thriller novel, this bigbudget production is directed by Taner Tunçay.

•



exhibition Edge of Chaos

UNTIL AUGUST 17 BORUSAN CONTEMPORARY, ISTANBUL

For close to 20 years, the London-based collective United Visual Artists (UVA) has been investigating the nature of perception and cognition, inviting us to contemplate the universality and subjectivity of experience. Unfolding as intricate performances of form and movement, the works in "Edge of Chaos" take us on a journey from the cosmic to the mundane.





.....



festival Sónar Istanbul

APRIL 28-30 ZORLU PERFORMING ARTS CENTER, ISTANBUL

Sónar Istanbul is back once again to offer its unique blend of music, creativity, and technology. Some of the artists featured in the festival include the queen of electronic music, Maya Jane Coles; the Belfast-born/London-based legendary duo BICEP; the creator of multifaceted electronic music with hopeful tones, David August; and many others.



exhibition

Seyir Defteri Beril Anılanmert

21 MAYIS'A KADAR İŞ SANAT ANKARA ART GALLERY, ANKARA

Farklı tekniklerdeki seramik formlarıyla tanınan seramik sanatçısı Beril Anılanmert'in 'Seyir Defteri' sergisinde geçmişte yaptığı çalışmaların yanı sıra son zamanlarda ürettiği eserler de yer alıyor. Sergide seramik formların yanı sıra pentür karakterindeki karolar ve enstalasyonlar sanatseverlerle buluşuyor. Sergiyi, her pazar 14.00'te rehberli turla gezmek mümkün. Rehberli turlara rezervasyon gerekiyor.







Concert Get the Blessing

APRIL 30 ZORLU PERFORMING ARTS CENTER, ISTANBUL

Istanbul is celebrating International Jazz Day with a concert by Get the Blessing! Performing a flawless blend of jazz and rock, the Bristol quartet features Jim Barr on the bass guitar, Clive Deamer on drums, Jake McMurchie on the saxophone, and Pete Judge on the trumpet. The band will add its fresh spin on free jazz at Zorlu PSM, starting at 21.30.

ŞİŞECAM'S GLOBAL PRODUCTION CAPACITY

OPERATING IN THE BUSINESS SEGMENTS OF FLAT GLASS, GLASSWARE, GLASS PACKAGING, AUTO GLASS, AND CHEMICALS, \$ISECAM TOUCHES EVERY ASPECT OF LIFE IN MORE THAN 150 COUNTRIES.











ŞİŞECAM FLAT GLASS

Ranks **5th** in the world and **2nd** in Europe with

3 million tons total production

LJ ŞİŞECAM GLASS PACKAGING

Ranks **5th** in the world and in Europe with

2,4 million tons total production



Ranks 2nd in the world in soda ash production The world's leading producer of basic chromium sulfate with 4,9 million tons soda ash production 62,000 tons glass fiber production 4,4 million tons industrial raw material production

ŞİŞECAM GLASSWARE

Ranks 2nd in the world and in Europe with 364,000 tons total production



ŞİŞECAM AUTOMOTIVE

Ranks 8th in the world and 4th in Europe with 22,1 million units auto glass and

8,1 million units encapsulated glass produced

GLASS IS CULTURE

