



Be the Turning
Point for a More
Sustainable Future

NET  THON
Exhibition



Dhahran Expo
September 12-14, 2023

NET^{zero}THON
Exhibition

NET^{zero}THON

“As one of the leaders of the energy sector in the world we strive to enable, inspire and create opportunities to develop innovative solutions to enhance our efforts to reduce our greenhouse gas emissions. As the world drives towards a more sustainable net-zero future, ingenious ideas and digital solutions will be needed. With this exhibition we are sending a message with the hope that it ignites a spark of creativity that inspires you to join our efforts in continuing to reduce GHG emissions, to reach a future that we are proud of creating.”



Khaled A. Al-Buraik

Senior Vice President, Southern Area Oil Operations
Saudi Aramco

NetOthon: Be the turning point for a more sustainable future

What is NetOthon?

NetOthon is a one of a kind event that aligns perfectly with our country's vision to revolutionize digitalization and reach net-zero goals. We are bringing together the best minds from industry and academia to solve one of the most pressing challenges of our time: achieving an orderly energy transition to meet the world's growing energy demand while reducing GHG emissions.

NetOthon aims to harness the power of innovation, technology, and collaboration to create solutions that provide the benefits of oil and gas for future generations, while reducing emissions.

NETO^{zero}THON



“Digitalization is a key enabler for our ambition to achieve net zero Scope 1 and Scope 2 GHG emissions across wholly-owned operated assets by 2050. At Saudi Aramco, we are leveraging the power of digital technologies to transform our operations, optimize our resources, and enhance our efficiency. NetOthon is our platform to showcase our digital solutions and innovations that can help us and our partners reduce our environmental impact and improve our sustainability. NetOthon is also a catalyst for fostering a culture of collaboration and learning among our employees, customers, suppliers, community and stakeholders. By joining NetOthon, you will be part of a digital community that is driven by a common vision of a more sustainable future.”

Nabil A. Al-Nuaim

Senior Vice President, Digital & Information Technology
Saudi Aramco



Aramco supports the aims of the 2015 Paris Agreement to limit the global temperature increase in this century to 2 degrees Celsius above pre-industrial levels, while pursuing efforts to limit the increase even further to 1.5 degrees above pre-industrial levels, and the goal of the Kingdom of Saudi Arabia to achieve net zero GHG emissions in its economy by 2060.

Our corporate strategy is based on producing hydrocarbons that have one of the lowest upstream production costs and carbon intensities in the world, and supporting a global orderly energy transition towards a lower GHG emission future, through investing in technologies, and offering lower carbon products, and using nature based solutions.

That is why Aramco launched NetOthon, an ambitious initiative to cultivate digital-based solutions across multiple business sectors while working towards net-zero ambition.



The NetOthon exhibition will feature:

01 Technical Workshops

A live demonstration of digital solutions and technologies that can optimize resources, enhance efficiency, and reduce emissions from our operations Please avoid referencing the value chain.

02 Immersive Experiences

Immersive experiences to educate the public on net-zero challenges, showing the impacts of different aspects of life on your carbon footprint, and inspire action and innovation.

03 Digital Solutions

Discover the transformative potential of digitalization in achieving net-zero ambitions. Uncover cutting-edge technologies streamlining processes, enhancing efficiency, and driving us closer to a lower GHG emissions Use either GHG emissions of carbon emissions.world.

The NetOthon exhibition will also offer you a unique opportunity to:

Learn from experts and peers who have extensive knowledge and experience in net-zero emissions and sustainability.

Network with other like-minded people who share your vision of a lower carbon emissions future.

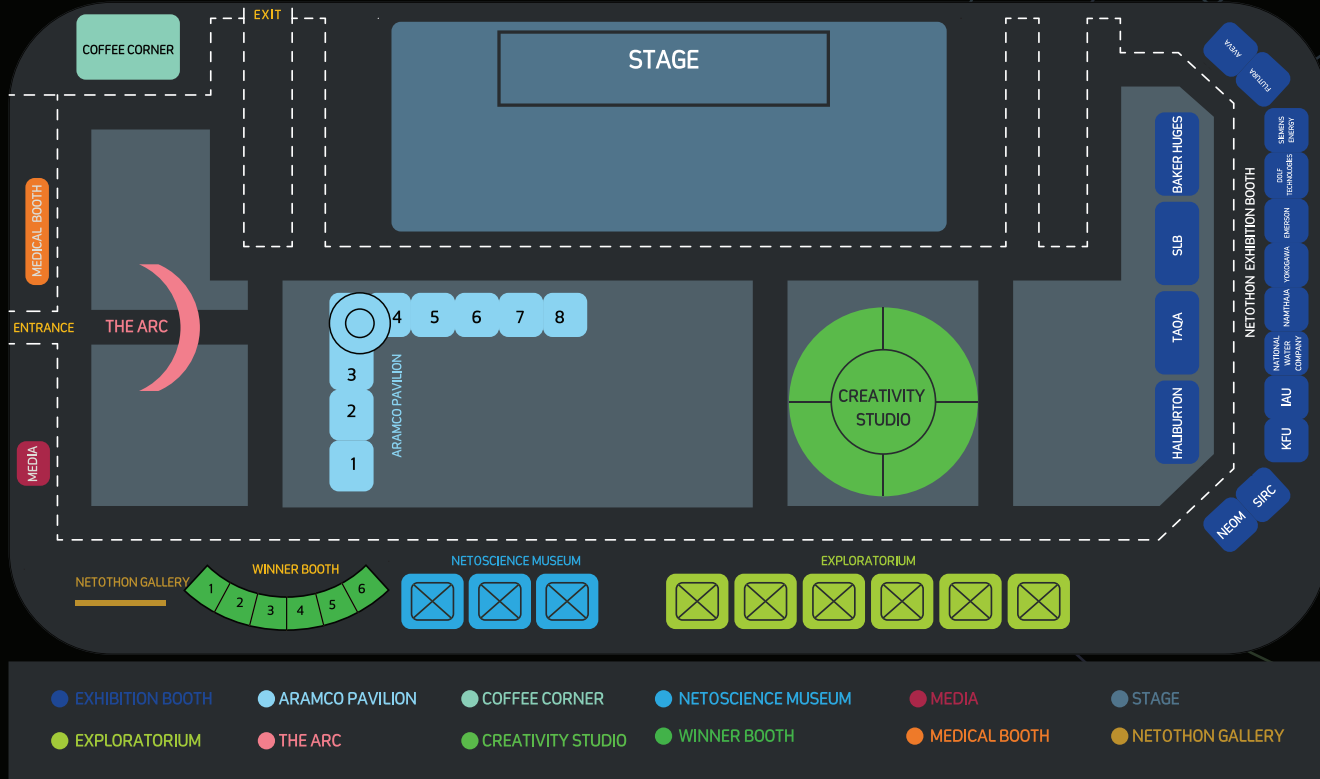
Propose your own creative solutions to achieve net-zero emissions and receive recognition.

The NetOthon exhibition is open to anyone who is interested in net-zero emissions and sustainability. Whether you are an individual or an organization, you can register for the NetOthon exhibition by visiting the official website of NetOthon.

Don't miss this chance to be part of a global movement that is making a positive difference for the planet and its people. Join us at the NetOthon exhibition and discover how you can be part of the solution!



Floor Plan



The ARC

Embark on an exhilarating journey of how and why Saudi Arabia embraced the ambition of achieving net zero emissions in its economy by 2060. Witness the historic moments that led to the Kingdom's decision, and explore the exciting projects that have been launched to achieve this goal.

Discover Saudi Aramco's critical role in developing and deploying technology solutions at speed and scale, to provide the benefits of oil and gas for future generations, while seeking to minimize GHG emissions. Through the ARC you will learn about decades of commitment to sustainable production through investments in technology, renewable energy sources, carbon capturing and biodiversity. And you will witness how Saudi Aramco's sustainability efforts create a positive impact on the world. Join us as we explore how Saudi Aramco is helping to shape a lower carbon emissions future.



Winners Booth

The NetOthon winners' area is a special section of the event where you can meet and interact with the champions of the NetOthon competition.

These are the teams that have impressed the judges with their innovative and impactful solutions for the Net Zero challenge. You can learn more about their projects, their inspirations, and their experiences in participating in the NetOthon. You can also see their prototypes, demos, and presentations in action.

The NetOthon winners' area is a showcase of some of the best young talent and creativity in the field. Don't miss this opportunity to connect with NetOthon winners and celebrate their achievements.



Team Name: ALGAE.AI

Project: Optimizing Algae's Carbon Capture Through Artificial Intelligence



Team Name: Carbon2Carat

Project: Convert Carbon into Customizable Synthetic Diamond Through 3D Printing



Team Name: Hydrocarbon Robotic Vacuum (HRV)

Project: Revolutionizing Oil Pit Recovery and Cleaning to minimize CO2 Emissions



Team Name: LZ-CSS

Project: Empowering Micro-Organisms as Sustainable Solution to Preserve Marine Life



Team Name: Carbon Emissions Absorption (CEA)

Project: Using Nano-Structure Compounds to Generate Power with Carbon Capture Techniques.



Team Name: ECO-Drone

Project: Revolutionizing Aerial Surveillance with Advanced Gas Leak Detection

NetOthon Gallery

The NetOthon gallery is an area where you can see all the ideas that were submitted during the NetOthon competition. This is a place where you can be inspired by young brilliant minds and appreciate the diversity and creativity of the participants, who came up with various solutions for the Net Zero challenge. You can browse through the different digital tracks, such as 3D printing, Artificial intelligence, AR/VR, and UAV/Robotics, and see how each team tackled the problem from different angles. The NetOthon gallery is a celebration of the intersection of community between professionals and college students and its potential to make a positive impact on the world.

Team 1

Abdulrahman B Alhabbash
Hamad Alsaleem
Nawaf F. Almohtresh
Fay M. Al-Salem
Adel M Alrashidi

Team 2

Ibrahim M Sowayigh
Aishah A Abubakrilmulla
Mohammed A Mukhtar
Abdulmohsen S Murait
Mohammed A Alameer

Team 3

Moaath A Mahmood
Abdulkarim F Wathnani
Ibrahim A Alsaad
Abdullah A Alzahrani
Mohammed H Aldossary

Team 4

Mohammad H Shami
Majed A Alageel
Turky Y Ibrahim
Nourah A Ali
Abdulaziz A Alwakeel

Team 5

Yazeed A Owaid
Abdulaziz B Sebbaa
Ahmed M Assiri
Ibrahim M Moutaz
Abdulrahman M Alomar

Team 6

Suliman F Omran
Bader AlSugair
Abdulmajeed Aldughailther
Ammar S Alsenani
Ibrahim A Jughaiman

Team 7

Suhaib S Alsaikhan
Ahmed H Alghamdi
Majed H Al Khalis
Khalid R Aljabr
Omar Aldubayan

Team 8

Musab M Alqahtani
Bassam M Alghamdi
Norah A Alkathlan

Team 9

Ahmed T Gazi
Ahmad M Otaibi
Abdulrahman Alrumaih
Arwa A Mubarak

Team 10

Yousif B Alhammadi
Obai N Shaikh
Aseel A Madani
Yazeed S Janbi

Team 11

Nada I Alruwaii
Mohammed A Albuaainain
Taef A Alkhales
Hussain N Alqassab
Hammad U Tahir

Team 12

Mohammed T Alsubaie
Musaad M Alosaimi
Bayan M Alrehaili
Suliman A Mousa
Maimunah M Harbi

Team 13

Batool Alobaid
Sultan N Qithami
Hadi N Qahtani

Team 14

Faisal Julaidan
Tareq M Azzouni
Sohaib B Zahran
Mohammad A Yagoub
Maryah A Alghamdi

Team 15

Mohammed H Alabddulqader
Mamdouh H Hadi
Abdullah O Alsaltan

Team 16

Reem M Aldahlawi
Saud A Almbdal
Motaz S Alshaikh
Ragad F Aldilaljan
Najd M Alotaibi

Team 17

AbdulMalik Sabti
Ahmed Almousa
Layla H Hamid
Rawabi A Alshamrani
Mohammed Iseed

Team 18

Rola Ghamdi
Dana Abahussain
Badr H Aldhalaan
Maryam Bahmaid

Team 19

Saud Y Alasiri
Rakan W Banna
Ahmed A Bakheet
Muneer A Marzouq
Ridha H Abbas

Team 20

Eman Alzyer
Razan Alasmari
Sara Bajjaba

Team 21

Abdulrahman Alharbi
Faisal K Almutlaq
Naif Alharbi

Team 22

Tami Faisal Alhajri
Mamdouh Khalaf Aldhafeeri
Omar Mohammed Alkhawater
Ali Abdullelah Aldhamen
Radwan Ali Albahrani

Team 23

Hneen Sultan Alshelaly
Layan Hassan Alshehri
Rodynah Alabdulhadi
Albndri Abdullah Alamri
Maha Jamaan Alghamdi

Team 24

Abdullah Alenzi
Areej Albakri
Ayman Abualrahi
Ghada Alomari
Raghad Mughrbali

Team 25

Munirah Alhulaybi
Naba Alsalmam
Nouf Almulhim
Shuaa Alhumam
Yasmeen Almubarak

Team 26

Abdulaziz Al Dossary
Abdullah Alhumam
Elyas Almosa
Omar Aldossari

Team 27

Abu Baker Abdullah Almulla
Abdulrahman Alabdulazim
Nasser Almulhim
Mohammad Akef
Rama Samy

Team 28

Sarah Alzamami
Marym Aloudah
Sarah Alarfj
Kayan Alotaibi
Lina Alismail

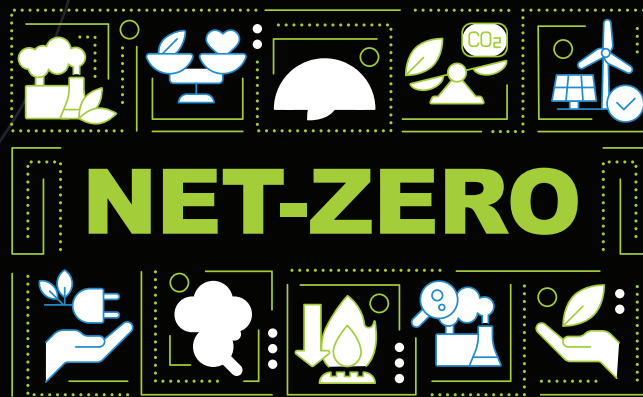
The Net0 Science Museum

Embark on a transformative journey through our immersive exhibition, meticulously curated for adults from diverse backgrounds and profession, eager to unravel the intricacies of the net-zero concept, environmental sustainability.

Step into a dynamic realm where cutting-edge technology converges with environmental consciousness. Wander through a life-sized urban panorama, revealing the hidden impact of our daily choices on carbon emissions.

Navigate a digital labyrinth, confronting the challenges and solutions surrounding renewable energy, circular economies.

Leave equipped with not only a comprehensive understanding of net-zero ambition but also with actionable insights to tailor into their respective fields.

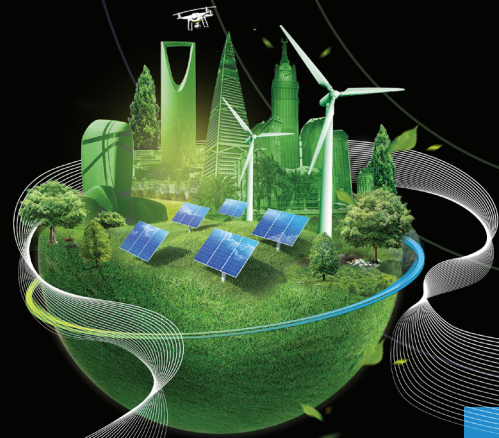


The Exploratorium

Step into a world of wonder and discovery at our impressive and interactive exhibition designed to captivate young minds and unravel the mysteries of the net-zero concept and environmental sustainability.

Tailored for kids of all ages, this interactive journey brings complex ideas to life in a way that is both engaging and educational. Imagine walking through a vibrant forest, where each tree tells a story of carbon capture. Engage in hands-on experiments that showcase renewable energy sources like solar and wind power.

Kids will walk away with a profound understanding of their role in shaping a sustainable future. These experiences plant the seeds of environmental stewardship early on, fostering a generation that's equipped to make a positive impact on our planet.



Experiences at a glance.. join us to discover more

Futuristic Immersive Experience



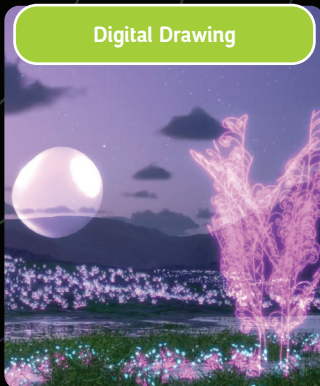
Mangrove Immersive Experience



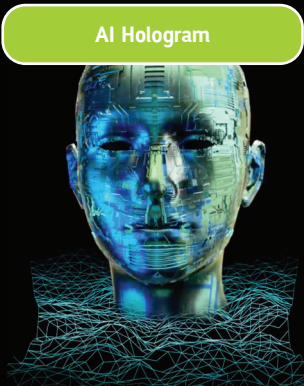
Kids LEGO



Digital Drawing



AI Hologram



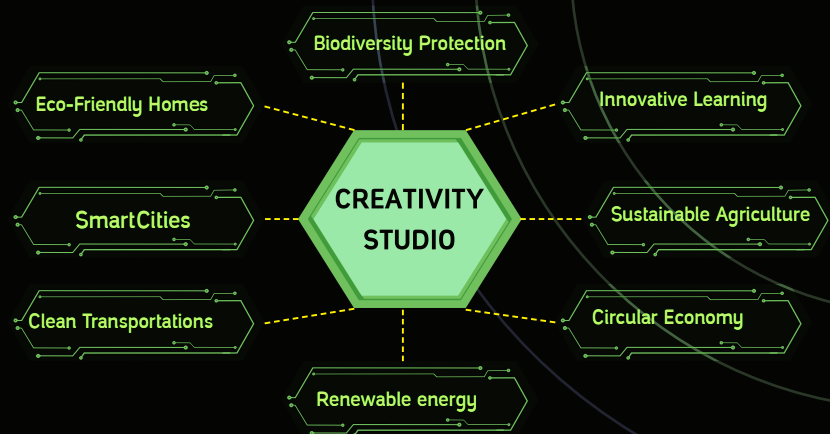
Interactive Experience



Creativity Studio

Welcome to our Creativity Studio, the heart of inspiration and innovation within our exhibition. This dynamic space is designed to spark the imagination of visitors and empower them to envision a more sustainable future. Step into an environment teeming with creative energy, where diverse minds collide to ignite ingenious ideas.

Ignite your imagination within our Creativity Studio's eight creativity topics, each a gateway to innovative possibilities. From sustainable architecture and renewable energy solutions to smart cities and biodiversity protection, these focused topics provide the canvas for your visionary ideas. This space encourages participants to propose inventive concepts that drive us closer to a more sustainable future.



The Stage

Date	Time	Title	Presenter
September 12, Day 1	1:30-1:45 p.m.	NetO Academy Introduction	Haifa Zahrani (Aramco)
	1:45-2:15 p.m.	Intellectual Property Management (Arabic)	Meshary Alayed- (Taqa)
	2:15-2:45 p.m.	KSA Geothermal Opportunities & Path to Net Zero	Wasayef B. Alshammery (Aramco)
	2:45-3:15 p.m.	Smart City Solutions	Meshael Alsayed- (ENWA-NEOM)
	3:15-3:45 p.m.	ENWA Distributed Energy Resources & Energy Efficiency Innovation Lab	
September 13, Day 2	9-11:30 a.m.	Robotics Academy	Shatha K. Alnaji (Aramco)
	1- 1:30 p.m.	Leading the Way for a Sustainable Future.	Robin Machado (Siemens Energy)
	1:30-2 p.m.	Clean Energy Certification for Market.	Feras Rowaihy (KAUST)
	2-2:30 p.m.	Navigating Towards Net Zero: Importance of CCS.	Juan Quijano (SLB)
	2:30-3 p.m.	Accelerating a Sustainable Net Zero Future Powered by Technology and Innovation	Duane Sherret- (Halliburton)
	3-3:30 p.m.	Shifting Efforts Towards Net Zero.	
	3:30-4 p.m.	Life Cycle Emissions Quantification Tool	Sara Dakheel - Naem Minhas (BakerHuges)
September 14, Day 3	9-11:30a.m.	Robotics Academy	Amjaad S. Al-Qahtani (Aramco)
	1 - 1:30 p.m.	The Archie Initiative.	Janka O'Brien & Ahmed Ghamdi (Emerson & Aramco)
	1:30-2 p.m.	Emerson & Gas Storage Department - NetOthon Step into a Transformative Journey Towards Net Zero	
	2- 2:30 p.m.	CO2 Transparency Digital Twin Overview.	Saud F Altemyatt (Aramco)
	2:30-3 p.m.	Sustainability in the Tele-Communication	Shahad I. Alarenan (STC)
	3-3:30 p.m.	Achieving Net Zero with AI and Optimization Integration	Abdullah Al-Montasheri (AVEVA)

Partners



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Follow the below link to register in the event and be part of driving a change

[NETOTHON | Registration](#)

NETOTHON

Location

Dhahran Expo

Website

www.NetOthon.com

Date

September 12-14, 2023

Contact us

help@netOthon.com

Time

9:00 AM – 6:00 PM

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