The 8 Most Architecturally Significant

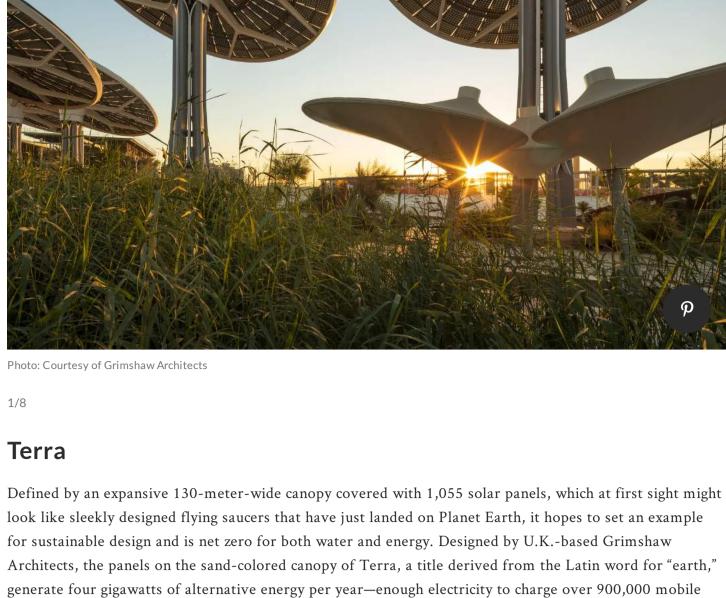
ARCHITECTURE

Pavilions of Expo 2020 From palm-treed solar panels to structures featuring performances of light, these pavilions are the ones to watch during this universal exposition, which opens to the world on October 1

By Rebecca Anne Proctor May 24, 2021

Surpassing the myriad of challenges posed by the coronavirus, at long last the greatly anticipated Expo 2020, the universal exposition hosted by Dubai, in the United Arab

Emirates, is slated to open to the public on October 1, 2021—just under one year later than its originally scheduled opening date of October 20, 2020. Expo 2020—the most recent world Expo was hosted by Milan in 2015—is dedicated to the theme of "Connecting Minds, Creating the Future," emphasizing the importance of generating sustainable solutions to the globe's current slew of environmental woes. Expo 2020 proposes cross-cultural collaboration as a means to tackle the world's problems and move into the next stage of existence where technology, sustainability, craft, and cultural heritage hold hands. To that end, Dubai's Expo has divided the event into the subthemes of Opportunity, Mobility and Sustainability—key drivers, it believes, of the future of global progress.



phones. Terra, which was made for the hefty price tag of \$272 million, is designed to produce as much

energy as its takes in. The panels, which could also be viewed as metaphorical futuristic palm trees, rise up from the desert sands throughout Expo 2020's extensive area, which cover 438 hectares (1,082 acres).

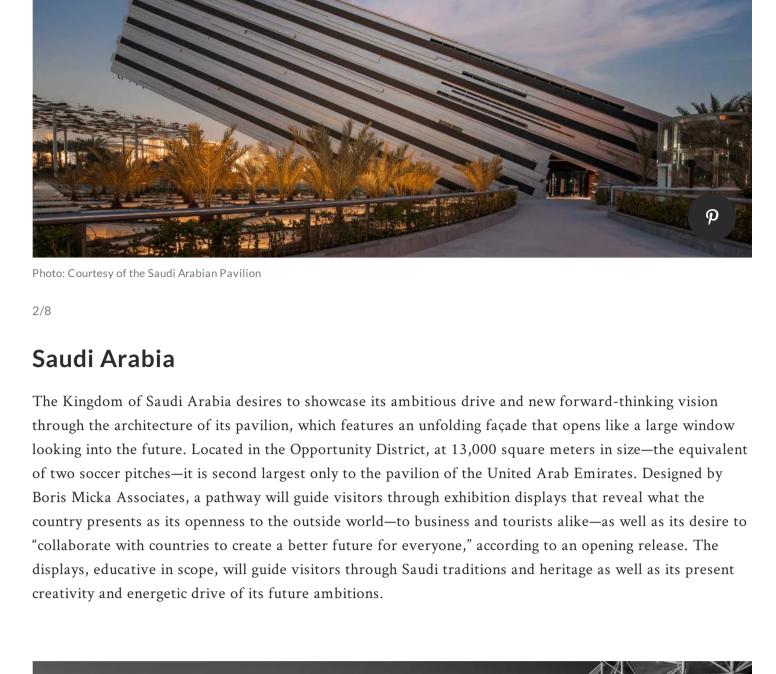


Photo: Courtesy of ENOC

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ENOC

and Reimagine, showcasing what energy promises in the future. The pavilion's construction supports the sustainable message it relays. It includes the installation of a

Arab Emirates. According to ENOC, the use of the steel construction will allow for the material to be reused and returned to its original state when the Expo finishes in 2022.

The pavilion of the ENOC Group, the official integrated energy partner of Expo 2020 Dubai, takes its inspiration from the circular forms of oil storage tanks. Made using 700 tons of steel in an effort to

minimize waste, environmental impact, and promote sustainability, the structure has five unique structures, which include four "houses" each representative of a different theme: Discovery, offering an explanation of what energy is; Harness, narrating what energy enables; Collaborate, explaining what energy needs to exist,

mixed-mode functional design for HVAC systems that minimizes its energy consumption by 20.1% lower than the ASHRAE 90.1% benchmark code assessment for commercial building energy codes in the United

Photo: Courtesy of Foster + Partners/Suneesh Sudhakaran

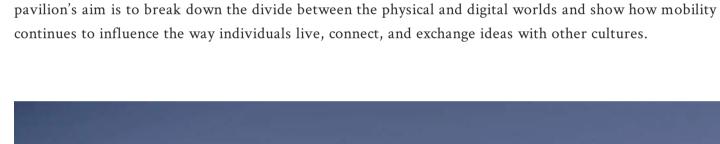
The emotive design of the Foster + Partners-designed Alif — The Mobility Pavilion features an impressive

showcases a range of both photovoltaic and solar hot panels. One of Expo's three signature structures based

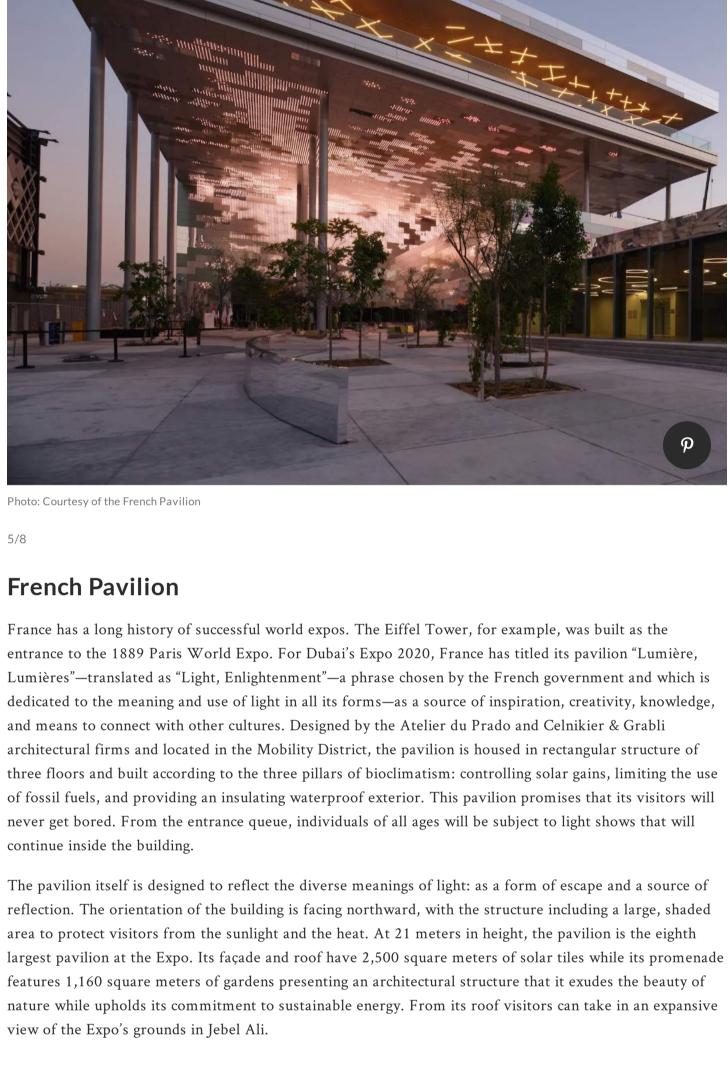
330-meter track where visitors can behold firsthand new cutting-edge mobility devices put into action. The

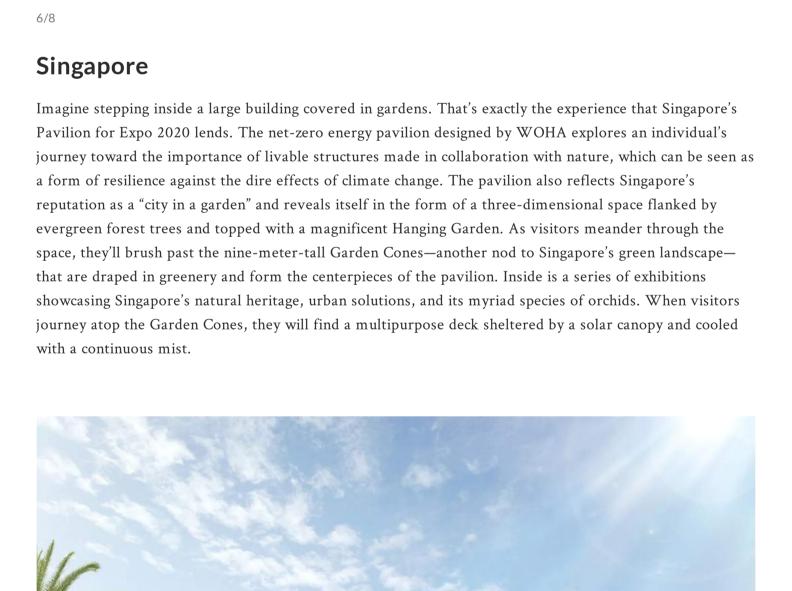
on the subthemes of mobility, sustainability, and opportunity, inside the building is a fairground of sorts with demonstration areas where visitors can discover the "historical giants of mobility" whose innovative technology helped to lead the world to the technological advancements of today. Of note is the open-air

façade of a series of stainless-steel fins that wrap around the building like a blanket. The roof also



Alif — The Mobility Pavilion





A breathtaking structure that beams light from its immersive high-tech three-dimensional façade, the Japan Pavilion reflects a combination of traditional arabesque and Asanoha patterns—Japanese traditional Origami shapes symbolizing the respect shown to others through the Japanese art of Origata gift wrapping. Located

in the Opportunity District, designed by Yuko Nagayama/NTT Facilities and constructed by Obayashi

against intense sunlight in the Middle East for several centuries. The pavilion also provides a natural

also nods also to the intricacy of mashrabiya, an architectural element characteristic of traditional

Middle East, the building pays reverence to Arabic design and culture. In many ways its impressive façade

architecture in the Islamic art, defined by meticulous latticework and which has offered effective protection

cooling system that incorporates traditional Arabic and Japanese techniques, featuring an expanse of water

in front of the Pavilion that cools the surroundings and reflects back on its three-dimensional façade. Inside a restaurant will encompass both Japanese and Arabic references.

Photo: Courtesy of the Japanese Pavilion

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Japan

Rendering courtesy of the Singapore Pavilion

Photo: Courtesy of Iranian Pavilion Iran Inspired by One Thousand and One Nights, the famed collection of Middle Eastern folk tales compiled during the Islamic Golden Age and also a seminal piece of literature in Persian culture, Iran's pavilion, designed by Iranian architectural firm Shift Process Practice, consists of several spatial pockets in a field instead of a monolithic building, each functioning as an agent to provide a part of Iran's contemporary history. Each structural pocket consists of a blue box that is then wrapped in a curtain of bronze-colored beads—a metaphor telling of the contrast between the heavens and the earth. Rather than a solid structure, Iran's pavilion is a rhizomatic network of connections offering different narratives of contemporary Iranian history. Yet the narrative is ambiguous, in some ways like the tumultuous history of the country itself. It is contingent upon the specific path the visitor decides to take that will reflect its own version of Iran's modern-day history. Reflective of the country's unfolding narrative is the work of Iranian artist Aref

Montazeri that will be on view in one of the boxes. His work, which uses the medium of mirrors and

CLEVER

By Lauren Joseph

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Rattan, Cane, and Wicker

Decor That Doesn't Scream...

Expo 2020 in Dubai runs from 1st October 2021 until 31 March 2022

architecture

distorts their reflection through his sculptural forms, is currently on view in Leila Heller Gallery in Dubai.

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