

Energy-rich Qatar faces fast-rising climate risks at home

November 27 2022, by Suman Naishadham



A fan in a Messi jersey runs at Al Gharafa Park in Doha, Qatar, Thursday, Nov. 24, 2022. Qatar unveiled a plan last October to cut its emissions by a quarter by 2030. Then, Russia invaded Ukraine and made the Persian Gulf nation's liquid natural gas only more sought after. Demand for fossil fuels has brought immense wealth to Qatar, but in the coming decades, it could also make one of the world's hottest places unlivable. Credit: AP Photo/Abbie Parr

At a suburban park near Doha, the capital city of Qatar, cool air from vents in the ground blasted joggers on a November day that reached almost 32 degrees Celsius (90 degrees Fahrenheit).

The small park with air-conditioned paths is an apt illustration of World Cup host Qatar's answers, so far, to the rising temperatures its people face. The wealthy Gulf Arab nation has been able to pay for extreme adaptive measures like this thanks to the natural gas it exports to the world.

A small peninsula that juts out into the Persian Gulf, Qatar sits in a region that, outside the Arctic, is warming faster than anywhere else on earth.

"It's already bad. And it's getting worse," said Jos Lelieveld, an atmospheric chemist at Germany's Max Planck Institute. Part of the reason is the warming waters of the Persian Gulf, a shallow, narrow sea that contributes to stifling humidity in Qatar during some months.

"It's a pretty difficult environment. It's quite hostile," said Karim Elgendy, an associate fellow at the London-based Chatham House think tank. Without its ability to pay for imported food, heavy air-conditioning and desalinated ocean water, he said, the contemporary country couldn't exist.

Already, Qatar has faced a significant rise in temperatures compared to pre-industrial times. Scientists and others concerned about climate change are trying to keep the Earth as a whole from warming by more than 2 degrees Celsius (3.6 degrees Fahrenheit) on average because research shows it will be profoundly disruptive, making many people homeless, inundating coastlines and destroying ecosystems.



Al Gharafa Park is viewed in Doha, Qatar, Thursday, Nov. 24, 2022. Qatar unveiled a plan last October to cut its emissions by a quarter by 2030. Then, Russia invaded Ukraine and made the Persian Gulf nation's liquid natural gas only more sought after. Demand for fossil fuels has brought immense wealth to Qatar, but in the coming decades, it could also make one of the world's hottest places unlivable. Credit: AP Photo/Abbie Parr

"Qatar has an enormous amount to lose in terms of the effects of climate change," said Mohammed Ayoub, a professor at the Environment and Energy Research Institute at Qatar's Hamad bin Khalifa University. It is one of the world's hottest countries and will experience even more heat extremes, floods, droughts and sand and [dust storms](#).

CLIMATE PLEDGES

If Qatar is one of the world's wealthiest nations per capita, it is also one of the most polluting per person. Around this country slightly smaller than the U.S. state of Connecticut, large SUVs are a common sight, filled with cheap gasoline. Air-conditioning blasts the insides of buildings year-round. Even the country's [drinking water is energy intensive](#), with nearly all of it coming from [desalination plants](#) that burn fossil fuel for the force needed to press [ocean water](#) through tiny filters to make it consumable.

In recent years, Qatar has inched forward making climate pledges. At the 2015 Paris climate talks, it did not commit to reducing emissions, but set a goal six years later to cut emissions 25% by 2030. One way would be to use [carbon capture](#) and storage at gas production facilities, a much-discussed technology that has yet to be deployed at scale.



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Recently, the country also connected a solar power plant to its electric grid that could power 10% of the nation's energy needs at full capacity.

In Doha, there is a new metro system, more green spaces and parks, and the upscale Msheireb district which was designed to take advantage of natural wind flows.

But it's not clear that Qatar can reach its reduction goal in seven years. At the recent U.N. climate conference in Egypt, Qatar's environment minister Sheikh Faleh bin Nasser bin Ahmed bin Ali Al Thani said the country was "working to translate these ambitions to facts."

The ministry of environment and [climate change](#) did not respond to multiple requests from The Associated Press for comment on its emissions reduction plan.

In the past, it has said that one key effort will be to diversify Qatar's economy.



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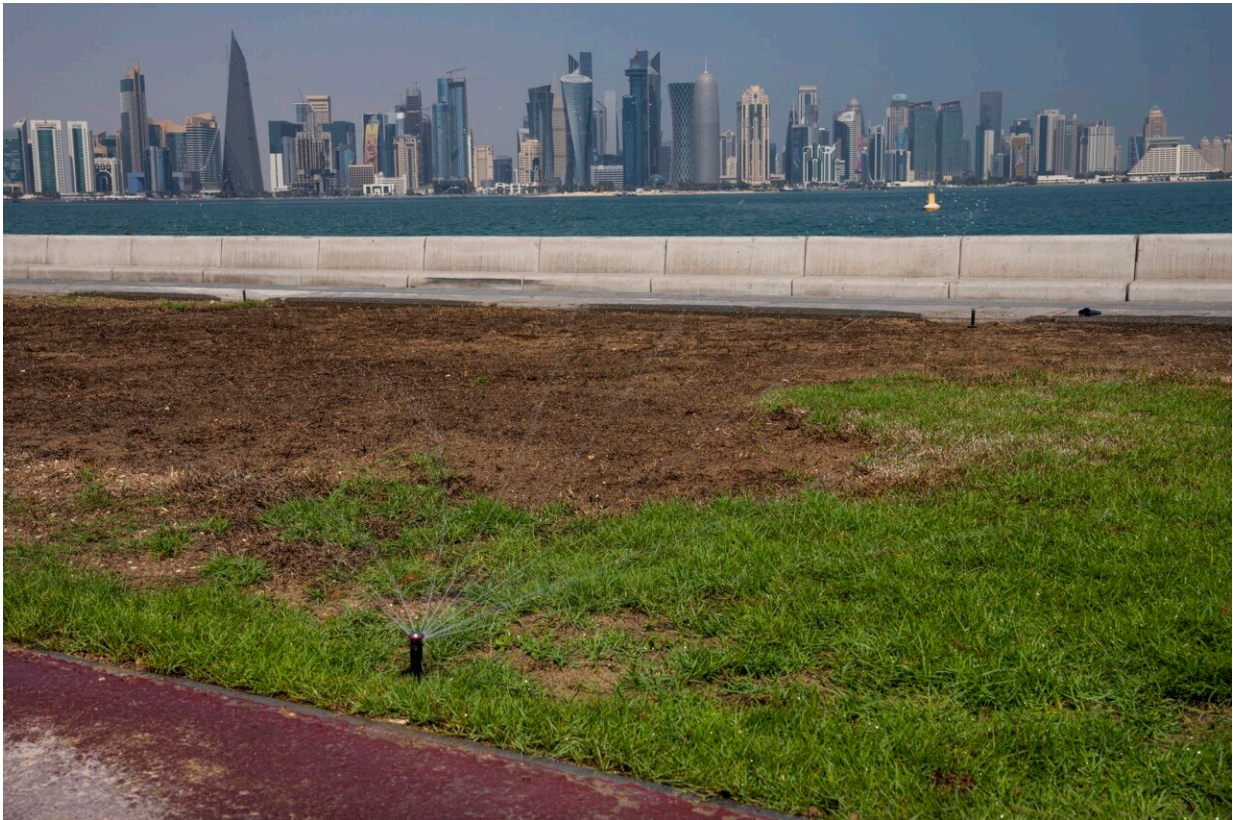
Many observers say hosting the World Cup is part of branching out from oil and gas to become an entertainment and events destination. But to hold the event, Qatar built enormous amounts of infrastructure over a 12-year period—with a massive carbon footprint, despite its claims otherwise.

"They can't diversify without spending money," said Elgendy. "And that

money will come from oil and gas. It's a bit of a conundrum."

GLOBAL DEMAND FOR GAS

Qatari officials and some academics argue that exporting liquefied natural gas to the world can help the transition to clean energy because the fossil fuel is less polluting than oil and coal. That view is increasingly unsupported by science as the extent of leaks from natural gas infrastructure becomes clear. Leaking natural gas is far more harmful for the climate than carbon dioxide, ton for ton.



A water sprinkler on the corniche, overlooking the skyline of Doha, Qatar, Wednesday, Oct. 19, 2022. Qatar unveiled a plan last October to cut its emissions by a quarter by 2030. Then, Russia invaded Ukraine and made the Persian Gulf nation's liquid natural gas only more sought after. Demand for

fossil fuels has brought immense wealth to Qatar, but in the coming decades, it could also make one of the world's hottest places unlivable. Credit: AP Photo/Nariman El-Mofty, File



With Doha skyline in the background, a man prepares to casts his fishing pole at the Corniche waterfront promenade in Doha, Qatar, Nov. 11, 2022. Qatar unveiled a plan last October to cut its emissions by a quarter by 2030. Then, Russia invaded Ukraine and made the Persian Gulf nation's liquid natural gas only more sought after. Demand for fossil fuels has brought immense wealth to Qatar, but in the coming decades, it could also make one of the world's hottest places unlivable. Credit: AP Photo/Hassan Ammar, File



Cars drive at a highway as the sun sets in Doha, Qatar, Monday, Nov. 14, 2022. Qatar unveiled a plan last October to cut its emissions by a quarter by 2030. Then, Russia invaded Ukraine and made the Persian Gulf nation's liquid natural gas only more sought after. Demand for fossil fuels has brought immense wealth to Qatar, but in the coming decades, it could also make one of the world's hottest places unlivable. Credit: AP Photo/Hassan Ammar

Earlier this year, state-owned gas giant Qatar Energy joined an industry-led pledge to reduce nearly all [methane emissions](#) from operations by 2030. Methane is the the principal constituent of natural gas.

But a real turn away from [fossil fuels](#) has yet to begin here.

After Russia's invasion of Ukraine, Europe's race to replace gas from

that country left Qatar—among the world's top natural gas producers and exporters—in pole position to benefit.

Qatar inked new deals with several [energy companies](#), including a recent 27-year agreement to provide liquefied [natural gas](#) to Chinese oil and gas company Sinopec.

"Since the war in Ukraine, everyone is talking to the Qataris now to see if they can get that gas," Elgendy said.

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Citation: Energy-rich Qatar faces fast-rising climate risks at home (2022, November 27) retrieved 26 June 2024 from <https://phys.org/news/2022-11-energy-rich-qatar-fast-rising-climate-home.html>

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