The Energy Industry’s Next Disruption
Texas oil and gas bounced back big during the past decade. Now what?

story by W. MICHAEL COX AND RICHARD ALM

The United States began this century<br>bracing itself for a gloomy future of energy scarcity, high oil and natural gas prices, and greater dependence on foreign suppliers. The country ended the first two decades on the verge of energy self-sufficiency, with domestic production at record levels and prices heading downward. Texas played a starring role in the energy transformation that got its start on the western fringes of the Dallas-Fort Worth area. George Mitchell, CEO of a Houston natural-gas company, had been experimenting with hydraulic fracturing or fracking, to unleash gas trapped in shale formations. In the 1990s, Mitchell Energy adapted fracking to oil. Crude began to flow from fields once thought to be in intractable decline. The oil and gas industry snapped out of its doldrums and entered a decade-long boom.

Texas crude-oil production had steadily declined from 3.5 million barrels a day in 1991 to a low point just under 1.1 million barrels daily between 2003 and 2009. As fracking technology improved and spread, the state’s output rebounded sharply, exceeding 3.5 million barrels a day in every year since 2017. With Texas in the lead, the United States passed Russia in 2012 and Saudi Arabia in 2013 on its way to becoming the world’s No. 1 oil producer by a wide margin. The state’s share of U.S. oil production had fallen to an all-time low of 19.3 percent in 2003; by 2018, it had rebounded to nearly 41 percent, just shy of the all-time high of 46 percent in 1944.

The oil and natural gas comeback unfolded as a quintessential capitalist success story, with visionary entrepreneurs taking risks with new technologies and disrupting the status quo, reaping fortunes while confounding the naysayers. The next energy disruptions are more likely to arise from policy than from technology or markets. The energy industry can no longer count on being allowed to produce as much oil as market prices might justify.

Oil and natural gas have enriched Texas for a century. In recent years, the state’s economy has diversified and grown less dependent on energy, but it still does better when the energy industry is humming. A policy-led eclipse of fossil fuels will present a new kind of challenge for the Texas landscape, but it will shrink. The future lies in an evermore diverse Texas economy, open to newcomers and new ideas—but that has been the state’s path to prosperity for decades.

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The new technology was a game-changer, as energy companies honed the process to make it more economically viable. Natural gas production soared to record heights. Drillers then adapted fracking to oil. Crude began to flow from fields once thought to be in intractable decline. The oil and gas industry snapped out of its doldrums and entered a decade-long boom.

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The next energy disruptions are more likely to arise from policies than from technology or markets. Oil and natural gas have enriched Texas for a century. The oil and gas industry will, of course, use its riches and political clout to fend off government restrictions on fossil fuels. The effort may pay off here and there, but the building consensus on climate change will be hard to overcome in a world where oil companies are portrayed as evil. Alternative fuels are becoming more affordable, and capitalism itself is viewed with suspicion.

So what’s Texas to do as the world turns against oil and gas? The best option will be to stay the course and trust the state’s economist, model low taxes and smaller government. The sweeping diversification after the oil bust of the 1980s came about because the private sector had the freedom to deploy its business sense and capital to find new opportunities. Some of them have been in alternative energy. In recent decades, Texas has emerged as a leader among states in producing solar and wind energy.

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