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The oil and gas industry has taken the right steps in the right direction. There is a lot of emphasis on a green shift and reducing carbon emissions by all the major oil companies, which is very promising. However, the scale and the investment needed to bring the industry to a point where it can practically capture and decrease emissions to the levels needed is a long way off.

Saudi Arabia has one of the largest green hydrogen projects, which was launched in NEOM. Even at that scale, we are only looking at generating about up to 500,000 tons of hydrogen per year. Studies conducted at KAUST show that if we want to decarbonize the power industry, which uses gas turbines, we will need about 10mn tons of hydrogen by 2030 to eliminate about 150mn tons of CO₂. There is a huge gap between 500,000 tons and 10mn tons that we need to work on.

Purple Haze

The scale and cost of green technologies currently available are quite high. And in most cases, we are not sure about their readiness levels, the investments required, and the aftereffects. There is a lot of effort from all the oil companies and we must commend that. However, the scale needs to be a lot more than what we have today. A lot of demonstrations and a lot of investments are needed to make a real change. ■

**Paraphrased comments*

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