

New Vehicle Delivers Safety in Flammable and Toxic Environments

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Advances in oilfield technologies and processes have made sour-gasfield development a reality. These fields offer vast oil and gas production opportunities, but the presence of hydrogen sulfide toxic gas creates unique challenges for operators. When this flammable gas is released to the surface, it can create an atmosphere with an increased risk of explosion.

Traditional combustion vehicles are not allowed inside these areas, so, in order to transport personnel and equipment, the industry started relying on electric vehicles. However, even before reaching flammable levels, the air in these environments most likely is already toxic to people. Therefore, a solution for this scenario must tackle both flammability and toxicity issues, making safety innovation vital to the sustainable exploration of these resources.



United Safety launches the Air Qruise Electro-Ex with Al Hosn Gas at the 2014 Abu Dhabi International Petroleum Exhibition and Conference.

With that in mind, United Safety launched the Air Qruise Electro-Ex in association with Al Hosn Gas at the 2014 Abu Dhabi International Petroleum Exhibition and Conference.

The Air Qruise Electro-Ex is an ATEX-certified, explosion-proof, battery-powered vehicle. It combines explosion-proof mobility with state-of-the-art gas detection electronics, a highly compact air-supply system, and rapid-deployment breathing masks. This unique combination ensures that personnel are immediately alerted to a gas leak while being supplied with breathing air and transported out of the toxic release site. Additionally, there are improvements in efficiency and productivity, such as optional self-contained-breathing-apparatus jump seats that allow personnel to ride fully equipped, resulting in quicker, safer, and more efficient transport designed for these extreme environments.

“Al Hosn Gas is committed to becoming the world’s leading company in developing sour-gas resources. Given the complexity of the Shah gas field, we are actively seeking innovative and creative solutions for possible safety gaps as an added layer of protection for our workforce,” said Saif Ahmed Al Ghafli, chief executive officer for Al Hosn Gas.

“The Air Qruise Electro-Ex answers a direct need of operators in sour fields, and the fact that Al Hosn Gas quickly adopted the technology shows that there are in fact players in the industry that are willing to go the extra mile in order to keep their people safe,” said Elie Daher, executive vice president at United Safety.



The Air Qruise Electro-Ex vehicle.

[Read more about the Air Qruise Electro-Ex here.](#)