Hydrogen: Much more than an opportunity

The mission is one of those delicate, challenging but not impossible for this, rather.

Hydrogen is the main element in the universe. Traditionally used as an input in oil refining, the production of ammonia and methanol and the manufacture of steel. Global demand for hydrogen is more than 70 million tons per year.

The demand for hydrogen, which has multiplied by more than three since the seventies, continues to increase, supplied almost entirely by fossil fuels, with 6% of global natural gas and 2% of global coal destined for the production of hydrogen.

Somethings else about Hydrogen

Almost all of the current hydrogen is produced from hydrocarbons such as natural gas and coal with consequent production of emission of about 830 million tons of carbon dioxide/ year.

There is now a non-polluting alternative, called green hydrogen.

This is the hydrogen obtained by the water electrolysis. Electricity is required for this process, so if the generation of a renewable source is used, this is without emissions in the process.

This is at same time a great opportunity to reduce CO2 emissions, and to maximize the potential of wind power turbines, solar power plants, and other renewables.

Under this prospective, hydrogen is much more than an opportunity, it is the future. With the world gradually moving further away from coal, finding cleaner forms of energy is simply a way to survive.

That hydrogen is the energy of the future is not a sentence taken and thrown there. Some days ago, in an editorial published by Financial Times, the executive director of the International Energy Agency, Fatih Birol, charted a precise course: hydrogen can be the lever for complete or near-carbonization of globalization. This is where many global players comes into play.

A deep and radical changes in the production and transport of energy in the form of hydrogen from renewable sources, is already started, and it's going to massively grow up in the next future.

In this mutating global scenario, M Pumps, always attentive to market evolutions and to the changes of application needs, already acquired years experiences in the hydrogen production applications, and it can count on a satisfactory strong references on the same.

With a wide product portfolio and capability of developing new design, to fulfil to the application requirements, and to ensure years of trouble & maintenance free operation, M Pumps is a reliable partner for every process application related to the hydrogen production.

From circulation through the electrolyzes of ultrapure water in saturation condition with dissolved oxygen / hydrogen, to the thermoregulation units for power inverters, from cooling units of solar power stations to the big wind turbines gear boxes lubrication and cooling.

Whenever there is a new technological challenge, M Pumps is there.

“Hydrogen is much more than an opportunity, it's the future

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