COLOMBIA'S FLOATING PUMPS OFFER EXTREME RAIN SOLUTION

Extreme weather events are requiring countries to heavily invest in adaptation technologies, one of which is ETEC's latest pumping system

Evidence of climate change and global warming like the increase of the sea level, intensification of heavy rains, hurricanes, temperature changes, among others in both, local and global areas increase the need of environmental solutions that can cope with high water levels.

Companies and governments that strive to use forward-looking floodplain management practices to minimize flood and erosion damage for all residents, property and infrastructure are required worldwide.

Based on these consequences, it appears likely that global warming seems to be reclaiming what man has taken away from the earth.

Adopting proper irrigation management strategies can reduce the effects of hyper-hydration but emergency situations like the ones recently faced require an effective solution when it comes to drain water and avoid the permanence of it in a state of flood affecting the soil, the ground water and the crops.

Due to the increase of flooding cases around the world and the need for immediacy to control the flooding in a short time period and avoid all these consequences; ETEC S.A. a Colombian company, adjusted its patented engineering floating pump solution to help alleviate the effects of extreme flooding.

The majority of agricultural crops are negatively affected by the excess of water caused by rain or insufficient drainage. This hyper-hydration is devastating for the crops, causing production losses, ground water contamination, yields reduction and the concentration balance of carbon dioxide and soil oxygen.

Flooding conditions will not only affect crops and wild plants, but will kill the organisms in the soil that

ETEC develops solutions to ensure the efficient and proper handling of large water volumes required in aqueducts, agricultural and aquacultural farms, flood control and irrigation systems.

Haiti floods. UN Photo © Logan Abassi.

contribute to nutrient uptake to growing crops; besides the longer the water stands around the plants and crops, the more dehydration and the worse the damage is likely to be.

The floating pump in its different sizes (12", 24", 36", 42", 48" and 60") is the ultimate solution designed to assure the proper massive water evacuation. It can be installed and placed in operation, without the need to make civil constructions during a quick installation and start up time. It manages flows from 300 lt/seg up to 8000 lt/seg.

ETEC pumps can handle huge flows of water and are easily assembled in disaster situations. Photos: © ETEC.

ETEC´s designs and applications have been contracted by governments in North and South America and agricultural private companies around the world. These include national irrigation projects in the Middle East and South East Asia. Here, pumping water fast and efficiently is needed for conservation and the protection of houses. During the summer of 2010 Colombia suffered the most severe flooding of recent years.

The north and central part of the country were damaged by the continuous heavy rain and the increase of the river levels.

Similar circumstances were faced in Nebraska, USA, and Choné in Ecuador were facing the same situation. The solution was to efficiently and rapidly evacuate the water.

The easy mobilization of equipment due to its self-contained design, the large volume of water that they evacuate, it buoyancy and adaptability to the situation make this technology almost unique proposal worldwide.

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