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Environmental
and
Sustainability
Benefits of
Trenchless

New battery
powered drill rig

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TITLE OF PAPER

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ABSTRACT: Global Climate for our and future generation is a big challenge for every manufacturer of independent powered equipments, especially, but not only, when these units are required to work in high people density urban areas adding emissions and pollution in terms of gas, noise, either to the inhabitants and to the workers.

Another aspect will be the capability to integrate the future equipment generation in the Industry 4.0 concept being able to deliver big data to different levels from the manufacturer to the equipment owner to the public survey supporting future improvements and planning.

E.G.T. and its partners, University of Florence, Messers Benassi, Messers Mesa are working to develop an independent drill rig unit battery powered without diesel engine support.

The new machine will be designed to be a proactive tool able to measure, and collect a large amount of data concerning performed activities and inspected soils. In order to satisfy these ambitious specifications without sacrificing the traditional robustness of machines that have to guarantee high level of reliability even in harsh conditional environment, EGT Srl will redefine and improve design, manufacturing and maintenance approaches. This effort which is presented in this work is the object of a multidisciplinary interaction with research and industrial partners that are harmonically integrated in the STIGE research program (Sviluppo di Trivelle Innovative per attività Geologiche con alimentazione Elettrica).

<https://www.ucsusa.org/clean-vehicles/vehicles-air-pollution-and-human-health/diesel-engines>