

DEMONSTRATIONS IN SPAIN



The demonstration inspections and data analysis were conducted as part of the EU H2020 FTI Project “Polytest” dissemination activities.

The main objective was to conduct an on-site demonstration of the PolyTest inspection system for Gas Natural (in Spain), to:

- Present the PolyTest system capabilities on welds in HDPE pipes.
- Promote the technology for the inspection of butt fusion and electrofusion joints in HDPE piping as a project
- Demonstrate the PolyTest system to potential clients on either live pipeline on-site installation projects or existing pipe infrastructures.

The PolyTest procedure for EF joints in PE100 pipe was utilized for the demonstration, with optimization conducted in the trench and the data collected subsequently analyzed for volumetric defects.



PolyTest system positioned on electrofusion weld.

For these structures, consisting of diameters 100 mm and smaller, there may be a need to scale down the system, including the number of elements in the probes used for EF scanning, to provide better access to small elbow joints, with potentially small element widths to give a smaller step increment across the array where the EF fitting heater coil wire diameter and spacing may be smaller than the element width of the larger 128e probes.

The demonstration generated great interest and showed that the PolyTest system is a versatile, site-deployable inspection tool for EF welds in HDPE piping, covering a wide range of diameters and positions.