



**37TH INTERNATIONAL
NO - DIG
FLORENCE 2019**

Fortezza da Basso • FLORENCE (Italy)

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Utilities and low environmental impact pipe lining technologies

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Our Federation

448 Companies associated

Percentage of the population served

80% Water sector

55% Environment sector

30% Gas sector

15% Electric sector

Production value

€ 38 BLN

Utilities served

13.6 MLN water users

7.4 MLN gas meters

5.5 MLN Electricity PoDs

	<u>WATER</u>	<u>ENVIRONMENT</u>	<u>ELECTRICITY</u>	<u>GAS</u>	<u>VARIOUS</u>
<u>Management firms</u>	<u>148</u>	<u>155</u>	<u>55</u>	<u>68</u>	<u>45</u>
<u>Engineering or asset management firms</u>	<u>3</u>	<u>1</u>	<u>0</u>	<u>2</u>	<u>2</u>
<u>Single or multi-city special firms</u>	<u>5</u>	<u>2</u>	<u>5</u>	<u>1</u>	<u>3</u>
<u>Electricity cooperatives</u>	<u>0</u>	<u>0</u>	<u>9</u>	<u>0</u>	<u>0</u>
<u>Municipalities</u>	<u>0</u>	<u>1</u>	<u>6</u>	<u>0</u>	<u>8</u>
<u>State, parastatal, regional & other bodies</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>Corresponding members</u>	<u>10</u>	<u>6</u>	<u>10</u>	<u>14</u>	<u>0</u>
PARTIAL TOTAL	<u>167</u>	<u>165</u>	<u>85</u>	<u>85</u>	<u>58</u>

The imperative of environmental sustainability in the activities of utility firms is one of the principles defined by Utilitalia in its

Development Pact

presented to the national political audience.



Managing the **energy and environmental transition to a green economy** – circular economy, waste reduction and waste enhancement



Developing an **efficient infrastructure system** – using the best technologies available in the environmental field



Social and environmental sustainability – reducing the environmental impact of services provided to a minimum.

These are some of the directions in which utility firms are committed to dedicating their actions.

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Trenchless technologies are some of the activities that can have a positive effect on reducing the environmental impact of work processes connected to managing energy and water networks.

A cost-benefit analysis carried out by an associated company found at least 4 kinds of advantages deriving from the use of no-dig technologies when laying lines:

- Investment cost;
- Worksite duration;
- Materials used;
- CO2 emissions.

Even though the advantages of no-dig methods are undeniable, it is essential to strengthen collaboration and coordination between public services firms/underground network management firms and companies in the technological services sector.

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Greater attention to the environmental/social impact of laying pipes under public land and the simultaneous rapid growth of electronic and high-speed communications has made a “*lex specialis*” necessary to simplify the administrative processes required to build new infrastructure in synergy with that which is already in place.

SINFI is an innovative tool in the process of simplifying pipe laying work.

We need to invest more to improve SINFI and make it more representative of the totality of existing underground infrastructure assets.

Direct and effective but also lengthy consultations will continue to be needed between trenchless firms and the firms managing technological networks.

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An example of this kind of collaboration is the work carried out to produce guidelines for laying fibre optic cables in the presence of gas networks.

ANCI and IATT, along with Utilitalia, Anigas and Assogas, drew up a joint document that exemplifies good practice in the kind of collaboration needed between the parties.

Shared, streamlined procedures, with definite timeframes, can ensure the success of no-dig activities and demonstrate how fundamental they are in the process of laying service lines, because they guarantee security, public safety and the integrity of pre-existing network infrastructure.

GUIDELINES FOR LAYING FIBER OPTIC CABLES IN THE PRESENCE OF GAS NETWORKS



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The Guidelines are applied in cases of interference between gas pipelines and work activities to construct or maintain telecommunications networks that involve excavation works using:

- **Traditional open excavations**
- **Trenchless technologies**
- **Controlled Horizontal Directional Drilling**

All the parties involved in the construction process – network management firms, service operators, companies and subcontractors – are committed to adopting the agreed procedure.

ANCI is committed to informing all associated metropolitan cities, municipalities and unions of municipalities of these guidelines and to promoting greater awareness of them. The ultimate goal is to ensure all levels of public administration are fully informed so that authorizations can be issued.

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The progressive establishment of new digital technologies and new industrial processes points the way to the development goals of the entire national social and economic system.

The availability of infrastructure that is potentially suitable for hosting fibre optic communications networks and devices for the expansion of the most advanced communications systems means public services operators are natural counterparts in the technological dynamic of telecommunications.

Utilitalia has offered and continues to offer its total readiness to assist in the spread of high-speed communications networks, identifying the minimum uniform criteria for technical relationships between utility firms and the operators involved.

Utilitalia has signed non-exclusive MoUs that can help in expanding fibre optics using the infrastructure of gas utilities that are already in place and it is ready and willing to assist in future developments in telecommunications technologies.

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Thank you for your attention

Wishing you a productive conference

