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# REPORT

Roxtec in trans-  
mission substation  
380 - 150 KV



Terna is a major energy transmission grid operator and the primary owner of the national high-voltage electricity transmission grid in Italy. The most important

thing for Terna is to ensure safety, quality and cost effectiveness over time. This is why they have chosen Roxtec to seal the cables at their substation in Mon-

talto Di Castro, north of Rome. With Roxtec they get a sealing solution that provides safety and long term reliability.

**Roxtec team reports on site**  
From Terna's substation in Montalto Di Castro, Italy

**We Seal Your World™**



*Roxtec seals the cables that enter the control boxes at the substation.*

## Roxtec for operational reliability

Roxtec provides safety, quality and long term reliability at Terna's transmission substation in Montalto Di Castro.

Terna is responsible for the transmission and dispatching of energy throughout Italy, and for the safe management of the balance between electricity supply and demand. Terna also manages grid planning and development.

Terna was looking for a quality solution that could prevent water and rodents from damaging the electrical equipment at their substation in Montalto Di Castro, north of Rome.

Roxtec was installed at the substation one year ago, and the result is a great success. "With Roxtec we can be sure the seal is tight", according to maintenance specialists at Terna.

### **Speed and reliability**

What is the most important thing for Terna when it comes to cable seals? Terna representatives say: "We need a quick and easy sealing system that guarantees operational reliability. This is why we have chosen to use



Roxtec at the substation in Montalto Di Castro".

### **Changes are easily done**

One of the things Terna appreciates about Roxtec is the simplicity and flexibility: "It is easy to install and the adaptability is a big benefit that is important to us. From time to time we need to change cables or do upgrades. With the spare capacity and flexibility of Roxtec this is an easy job".



*Cable transits into the auxiliary service room sealed with Roxtec.*



“ With Roxtec we can be sure the seal is tight!



*Roxtec seals cables in a manhole outside of the control room. Spare capacity has been added with extra seals for future cables.*

### Unique adaptability

Multidiameter™, the Roxtec technology based on sealing modules with removable layers, makes it easy to adjust to different sizes of cables. “With only three different sizes of Roxtec modules, we can seal all the various cables that enter the control room, the control box and the auxiliary service room at the substation. This is a big benefit for us at Terna”.

### Easy maintenance

Terna wanted a solution that requires little adjustment and maintenance: “Before the use of Roxtec we frequently needed to check that the installation was ok. With Roxtec we can trust it is ok”.

### BENEFITS

- Easy to re-open
- Easy to route new cables
- Easy to track cables
- Easy to restore the safety condition after installation
- No cost for pesticide control



# Facts

<b>Project type</b>	Sealing of control and instrumentation cables in a transmission substation.
<b>Customer</b>	Terna S.p.A, the Italian TSO (Transmission System Operator).
<b>Applications</b>	Roxtec is used to seal cables into the main control room, auxiliary service room and all the control boxes at the substation.
<b>Requirements</b>	Water tightness and rodent protection. Spare capacity for future cables.
<b>Roxtec products</b>	Roxtec B-frame 8x3 and 2x3 with RM modules.
<b>Reasons for choosing Roxtec</b>	<ul style="list-style-type: none"> <li>Easy and fast installation</li> <li>Easy to upgrade with more cables</li> <li>Protection against water and rodents</li> <li>Multidiameter™</li> <li>A clean solution with easy maintenance</li> <li>Standardized kit-solution</li> <li>Local support</li> <li>Installation training</li> </ul>

## Roxtec power industry references

ABB, Areva, China Grid,  
China Southern Grid,  
Enel, Eon, Iberdrola, RWE,  
Siemens, Terna, Vattenfall



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