

On-site Diagnosis of Electrical Equipment

Commissioning, diagnostic and maintenance tests on large generators, motors, cables and power transformers at hydro, thermal and nuclear power plants, combined-cycles, wind and solar farms and other industrial plants.



- More than 20 years experience in on-site tests
- More than 60 power plants
- Tests in Spain, Portugal, Morocco, Italy, Romania
- Fully equipped mobile laboratory

AIMED AT

- Utilities
- Power plants
- Manufacturers of electrical equipment
- Industrial plants
- Maintenance companies

SERVICES

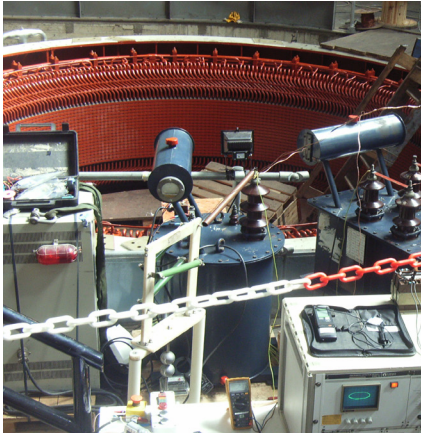
- Off-line diagnostics
- On-line diagnostics
- Maintenance
- Commissioning
- Functional tests

TEST OBJECTS

- Hydro generators
- Turbine generators
- MV motors
- Power transformers
- Instrument transformers
- Generators at wind turbines

TESTS

- Insulation resistance and PI
- Electrical resistance
- Tan Delta & capacitance
- Partial discharges, TVA
- AC & DC Hipot
- Stator Core EL CID
- Measurements of RTDs and TCs
- Transformation ratio
- No load and short-circuit
- Sudden short-circuit



HYDRAULIC PLANTS

- Albarellos (1998, 2009)
- Alcántara (1996)
- Arbón (1997)
- Arties (2005)
- Belesar (1998)
- Burguillo (2010)
- Camporredondo (1994)
- Castrelo (1998, 2007)
- Cimanes (1996)
- Conchas (1998)
- Doiras (2004)
- Peares (1998)
- Pontenovo (2005)
- Portodemouros (1998, 2003)
- Puente Nuevo (2010)
- Regueiro (1998)
- Requejada (1994)
- Sástago (1997, 1998)
- Silvón (2005)
- Sosis (2000)
- Tambre (1996)
- Xerta (2009)



THERMAL PLANTS

- Anllares (1996, 2003)
- As Pontes (2008)
- BBE (2002)
- Candelaria (1996)
- Castellón (1993)
- Compostilla (1992, 1997)
- Cristóbal Colón (1996, 2002, 2005)
- Ibiza (2004)
- Jinámar (2002)
- Laayoune (Morocco, 1992)
- Litoral de Almería (1994, 2000-04, 2009)
- Los Barrios (1995-96, 1998, 2003, 2008, 2010)
- Narcea (1995)
- Pasajes (1991)
- Pego (Portugal, 1996)
- Puertollano (2002)
- Santurce (1992, 1997)
- Soto de Ribera (1993, 2005, 2008)
- Teruel (1995, 1997)
- Velilla (1993)



NUCLEAR PLANTS

- Ascó (2007)
- Cernavoda (Romania, 2008, 2010)
- Cofrentes (1993-94, 1999, 2000, 2005, 2007, 2009)
- Garoña (1992, 1994, 2001, 2003-05, 2007, 2009)

COMBINED CYCLES

- Aceca (2009, 2010)
- Arcos de la Frontera (2009)
- Arrúbal (2007, 2009)
- Boroa (2008)
- Ibiza (2007)
- Plana del Vent (2008)
- Sabón (2007, 2008, 2010)
- Santurtzi (2009)
- Son Reus (2007)

Contact Info:

Aitor Kortajarena
aitor.kortajarena@tecnalia.com

TECNALIA is a private applied research centre with the necessary human resources to generate technological knowledge. A combination of technology, tenacity, efficiency, courage and imagination.

TECNALIA has over 1.500 expert staff working together towards a common goal: generating business opportunities through applied research.

TECNALIA

Parque Científico y Tecnológico de Bizkaia
C/ Geldo, Edificio 700
E-48160 Derio - Bizkaia (Spain)
T 902 760 000*
T +34 946 430 850 (International calls)
www.tecnalia.com