

The Sediver R&D department was created in the early 1950's and established in Saint Yorre, France. The current Research Centre has over 2500 m² of offices and laboratories and regroups electrical, mechanical and material science facilities, as well as a large documentation centre. This facility is supplemented by the C.E.B. laboratory which is specialized in full string testing with a testing hall of 1200 m² and 26 m height. The C.E.B is certified to test to all relevant insulator standards (IEC, ANSI, BSI etc.) and has the capability to test fully equipped strings up to 800 kV HVAC for electrical tests, pollution tests, mechanical tests as well as having an ionic migration chamber for 300 insulator units.

Further to these 2 testing facilities, Sediver benefits from five other facilities located in our manufacturing plants worldwide.

Overview of main testing equipment per location

Laboratory location	Mechanical testing equipment		Endurance testing equipment		Electrical testing equipment		Pollution testing chamber	HVDC testing equipment
	Tensile	Bending	Thermo mechanical	Vibration	Impulse generator	Test transformers		
France	✓	✓	✓	✓	✓	✓	Salt Fog up to 150 kV Clean Fog up to 250 kV	✓
Italy	✓	✓	✓		✓	✓	Salt Fog up to 40 kV	✓
Brazil	✓	✓	✓		✓	✓		
China	✓	✓	✓		✓	✓		



Sediver Product Engineering

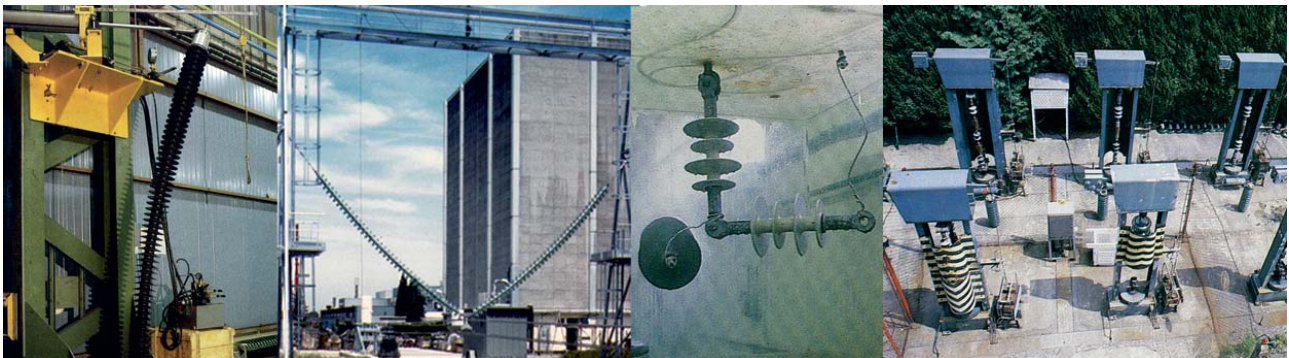
The department takes full advantage of a large variety of state-of-the-art testing equipment and facilities to assist them in developing insulators with excellent long term behaviour and performance.



- Investigate materials and their behaviour in service: vital to ensure a high level of performance and reliability of toughened glass insulators, composite insulators and surge arresters.
- Perform mechanical tests: essential to designing insulators with excellent long term behaviour under extreme service conditions.
- Evaluate the electrical performance of insulators: fundamental to assess the performance of any type of insulator string configuration.
- Determine the pollution performance of insulators and strings: critical for the choice of the right insulator for each customer's specific environmental conditions.

Sediver technical support

A team of skilled engineers operating in our Product Engineering Department are dedicated to providing solutions to customers in the field of high-voltage insulation and protection. Their know-how is based on 60 years of experience, testing and research carried out in state-of-the-art laboratories using cutting edge technology in the fields of material science, mechanical and HV testing including pollution testing and 3D electrical and mechanical simulations.



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