SEDIVER



COMPANY OVERVIEW

Experts & Pioneers

The world leader

in transmission insulation technology

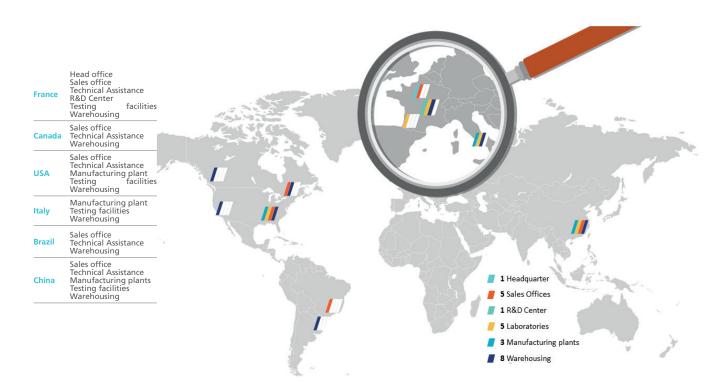
With 70 years of experience on worldwide power networks and a permanent investment in R&D, Sediver has gained a true expertise in research, design, manufacturing and testing of insulators up to very high voltages as well as for railway catenary systems.

Sediver ensures **the highest reliability and performance** of transmission systems throughout the service time of the line, under all environmental conditions.

Sediver is your natural partner for all insulation applications.

Global presence & local proximity

Extensive customer service
800 employees worldwide
+150 countries
3 manufacturing plants
1 Central R&D & 5 testing laboratories



Research & Development, a continuous investment

Always on the lookout for the latest technological improvements, Sediver heavily invests in Research & Development and has pioneered some of the major innovations of the industry, with 600 patents to its name.

The Sediver Research Center located in Saint-Yorre, France boasts state-of-the-art equipment that allows its multidisciplinary world-class experts to perform **complete research programs** as well as tests on complete strings for systems up to 800 kV.

Through its unique technical expertise, gained from 70 years of R&D combined with its field experience of 600+ millions of insulators in service, Sediver is constantly increasing the reliability of its products.

Sediver is a key partner for innovation, through its proficiency in **developing and providing top quality innovative solutions.**

A complete technical solution

Sediver® toughened glass insulation technology

Built on the **highest quality requirements** Sediver's exclusive technology benefits from the latest technological advances and relies on engineering know-how, distinctive manufacturing processes, in-house designed equipment, stringent quality systems and production controls that ensure highest purity of the glass produced.

It result in optimum operating performance and lowest life cycle cost.

Moreover, at Sediver®, we see no reason why electrical insulators can't provide grid operators with new IoT services! So, we decided to integrate sensors into our insulators. Our Sediver® Smart'R Suite delivers real-time monitoring and predictive maintenance that keeps our customers informed of the pollution affecting their lines at all times.

HVAC

Broad range of products from Medium up to Ultra High Voltage (UHV)

- 70+ years of global experience
- 600+ million insulators up to 1,000 kV
- From 70 kN up to 840 kN



HVDC

Sediver® High Resistivity Toughened Glass insulators (HRTG)

- 50+ years of global experience
- 11+ million insulators
- Up to 800 kV

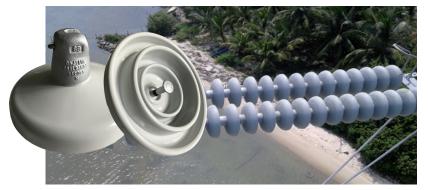


Extreme pollution

Sedicoat insulators RTV Silicone coated glass insulators

20+ years of proven performance

- 4.5+ million insulators
- Up to 500 kV HVAC & ±800 kV HVDC



Sediver® Smart'R Suite

Connected insulators that enable predictive and preventive maintenance.

Prevent incidents and limit unscheduled outages

- Plan ahead and streamline maintenance operations
- Reduce total cost of ownership



By your side

throughout your installation's lifecycle

Sediver's team of experts provides world-class consultancy that covers every stage of the line insulation process: selecting the best solutions, optimizing insulator string configuration, providing accurate diagnostic of lines in service.

Line construction project: Our premium support from the field to our lab

- On the field assessment
- Research and tests within our international laboratories network
- Tailor-made products with dedicated quality program

Project planning: Our top priority, your satisfaction

- Premium customer & sales services
- Agility of our production lines & warehouses all over the world
- Highest responsiveness in any case

Installation: Still with you on the field

- 3+ field interventions per month
- Strong & safe products easy to install
- Worldwide teams to support implementation of our products

Operation: Count on us for any assessment on the field

- Perform any type of assessment on glass, composite, and porcelain insulators
- Conduct field or lab assessment thanks to our worldwide network
- Support engineers to solve technical issues related to the lines operating conditions

Maintenance: The power of glass

- Toughened glass insulators' strings can be used to replace any aging insulators' strings
- Sediver Technical team supports our customers to reconfigure the string design and suggest the appropriate hardware

Enf-of-life: What goes around comes around

■ After performing over 70+ years, glass insulators are 100% recyclable and recoverable

Training & joint research programs: To go further with you

- Training courses on the latest regulatory and technical developments
- Joint research programs to solve specific line insulation design or performance issues

Sharing knowledge: Because it is in our DNA

■ Sharing with the international technical community through technical publications.

















At Sediver, we are committed to broadening access to energy while reducing environmental impacts



We are aligning our strategy and existing initiatives with the UN Global Compact Ten Principles & taking strategic actions to further contribute to the achievement of Sustainable Development Goals (SDGs)

In accordance to the UN SDGs, Sediver takes engagements & strategic actions for all of our sites and including our stakeholders: 3, 5, 7, 8, 9, 12, 13 16.

We have organized our strategy around four axes and we work on those topics for the years to come

Sharing strong ethics and economic growth with all our stakeholders

- Responsible Governance
- Ethics, Compliance & Human rights
- Support to local communities
- Data security & privacy

Providing a safe and inclusive workplace for all employees

- Health and Safety
- Employees' well-being
- Employee's development and engagement
- Diversity and inclusion

Make our end-to-end processes more environment-friendly

- Fight & adaptation to climate change
- Biodiversity
- Water management
- Circular economy
- Sustainable & responsible supply chain (incl sustainable sourcing)

Helping the energy industry use less, longer

- Contribution to a reliable & sustainable energy transition
- Product environmental performance
- Customer service & satisfaction
- Knowledge sharing & innovation

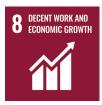
















Trusted for more than 7 decades

150+ countries served by Sediver

• Abu Dhabi ADWEA/ADCO • Albania KESH • Algeria SONELGAZ-GRTE/KAHRIF/KAHRAKIB • Angola EDEL • Argentina BENITO ROGGIO/CARTELLONE/INTESAR/TRANSENER/TECHINT • Austria APE/EVN/VERBUND/APG • Australia POWERLINK/ TRANSGRID/ELECTRANET/ENERGEX/ERGON/SP AUSNET • Belgium Elia/SNCB • Benin SBEE • Bolivia ENDE • Bosnia & Herzegovina EPBIH • Bostwana BPC • Brazil ABENGOA/ALUPAR/ALUSA/ARGO/CHESF/CEMIG/COBRA/CTEEP/CYMI/ ELECNOR/ELETROBRAS/ELETRONORTE/ELETROSUL/ENGEVIX/FURNAS/IE-MADEIRA • Bulgaria ESO • Burkina Faso SONABEL • Burundi EGL • Cameroon SONEL • Canada ATCO/ALTALINK/BC HYDRO/HYDRO ONE/HYDRO QUEBEC/ MANITOBA HYDRO/NALCOR ENERGY/NEWFOUNDLAND HYDRO/NB POWER/NS POWER/SASKPOWER • Cape Verde ELECTRA • Central African Republic ENERCA • Chad STEE • Chile ABENGOA/B.BOSCH/ELECTRICAS DE MEDELLIN/ENGIE/ KIPREOS/SIGDO KOPPERS/TECHINT/TRANSELEC SA • China China Electric Power Equipment and Technology (CET)/China Energy Engineering Corporation (CEEC)/CSG/Power China/SEPCO/SGCC/SINOTEC/TBEA • Congo SNE • Congo (DRC) SNEL • Colombia ISA/ELECTRICAS DE MEDELLIN/ENLAZA • Costa Rica I.C.E. • Croatia HEP/HOPS • Czech Republic CEPS/CEZ • Cyprus ELECTRICITY AUTHORITY • Denmark • Djibouti DJIBELEC • Dubai DEWA/MEW • Equador CELEC-TRANSELECTRIC • Egypt EETC • Estonia ELERING • Ethiopia EEPTC • Finland SLO-IVO • France ENEDIS/RTE/SNCF/RATP • Gabon SEEG • Germany AMPRION/EnBW/TENNET/50Hertz-Elia • Ghana VRA/ECG • Greece IPTO/HEDNO/TERNA • Guatemala ETCEE/ DEOCSA/DEORSA • Guinea ENELGUI • Honduras ENEE • Hong Kong CLP • Hungary MVM • Iceland LANDSNET • India L&T/PGCIL • Indonesia PLN • Iran BREC/GREC/HREC/FREC/KWPA/SABREC • Iraq MOE ETP/KRG • Ireland ESB • Italy TERNA • Ivory Coast SOPIE/CIE • Japan TEPCO/TOHOKU/KEPCO • Jordan NEPCO • Kenya KLPC/KETRACO • Laos EDL • Lebanon EDL • Lesotho LEC • Liberia LEC • Libya GECOL • Lithuania LITGRID • Luxembourg CREOS/CFL • Macedonia MEPSO • Madagascar JIRAMA • Malaysia TNB • Mali EDM/SOGEM • Mauritius CEB • Mauritania SOMELEC • Mexico ACCIONA/CFE/CYMI/ENTIA • Moldovia MOLDELECTRICA • Montenegro CSE • Morocco ONE • Mozambique EDM/HCB • Myanmar MEPE • Namibia NAMPOWER • Netherland TENNET • New Hebrides UNELCO • New Zealand TRANSPOWER • Nicaragua ENEL • Niger NIGELEC • Nigeria PHCN • Norway STATNETT • Oman PDO • Pakistan PEPCO • Panama ETESA/MC HOLDING • Paraguay ANDE/CIE/CONCRETMIX/ETESA/RIEDER • Peru ABENGOA/CONSORCIO TRANSMANTARO/ENGIE/COPEMI/ELECTRICAS DE MEDELLIN/RED DE ENERGÍA DEL PERU/MINERA ANTAMINA/STATKRAFT • Poland PSE • Portugal REN/EdP • Qatar KAHRAMAA • Romania TRANSELECTRICA • Rwanda ELECTROGAZ • El Salvador CEK/DELSUR/CLESA/DEASEM/EEO • Saudi Arabia HYUNDAI/NATIONAL GRID SA/NCC/SCECO • Serbia EMS • Senegal SENELEC • Slovak Republic SEPS • Slovenia ELES • Spain COBRA/REE/IBERDROLA/ELECNOR/ENDESA/GN FENOSA • Sri Lanka CEB • South Africa ESKOM • South Korea KEPCO • Sudan NEC • Sweden SSPB/SVK • Syria PEEGT • Tanzania TANESCO • Thailand EGAT • Togo CEET/CEB • Tunisia STEG • Turkey TEAS • Uganda UEB • Ukraine UKRENERGO • United Kingdom NGT/SP/SSE • USA AEP/AMEREN/ATC/AUSTIN ENERGY/AVANGRID/BARNARD CONSTRUCTION/BLACK & VEATCH/BPA/BURNS & MCDONNELL/CENTRAL ELECTRIC/CONED/DOMINION ENERGY/DUKE ENERGY/EC SOURCES SERVICES/ENTERGY/EVERGY/EVERSOURCE/EXELON/FIRSTENERGY/ FLORIDA POWER AND LIGHT/IDAHO POWER/KIEWIT CORPORATION/LADWP/LCRA/LS POWER/MID AMERICA ENERGY/MINNESOTA POWER/MYR GROUP INC/NATIONAL GRID/ NORTH WESTERN ENERGY/NPPD/NYPA/ONCOR/PACIFICORP/PATTERN ENERGY/PG&E/PPL/PSE&G/QISG/SDG&E/SHOW-ME POWER/SOUTHERN COMPANY/TRI-STATE/TVA/VELCO/WAPA/WETT/XCEL ENERGY • Uruquay INGENER/SACEEM/TECHINT/ TEYMA/UTE • Venezuela CORPOELEC • Vietnam NPPMB/CPPMB/SPPMB • Yemen PEC • Zambia ZESCO • Zimbabwe ZESA