



YOKOSUKA Area

- ◆ Nuclear Risk Research Center,
Risk Assessment Research Team
- ◆ Energy Transformation Research Laboratory
- ◆ Grid Innovation Research Laboratory
- ◆ Yokosuka Operation and Service Center



Light for Tomorrow.

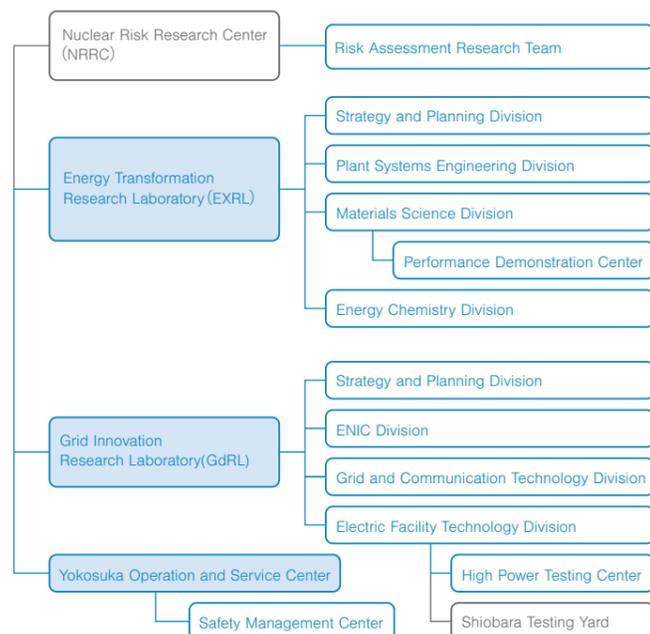
The Yokosuka Area is a base for energy industrial technology research.



The Yokosuka Area is located on the west coast (Sagami Bay) of the Miura peninsula. There are R&D facilities on an extensive area of approximately 260,000 square meters, with approximately 400 employees including researchers on electrical engineering, information and communication engineering, mechanical engineering, chemistry, materials science, and nuclear power engineering engaged in a wide range of R&D work from basic studies to practical applications. There was the High Voltage Research Institute (Incorporated foundation) at this site before 1977. After succeeding the business of the High Voltage Power Laboratory (1977), tests and research on high power and high voltage related to power transmission and distribution facilities have been conducted here. Departments related to nuclear power, thermal power and Electric power system have sequentially moved from the Komae Area, currently, Energy Transformation Research Laboratory(EXRL), Grid Innovation Research Laboratory(GdRL), in addition to Risk Assessment Research Team of Nuclear Risk Research Center(NRRC) and Yokosuka Operation and Service Center, which deals with office works, safety and supports research laboratories, are located here in the Yokosuka Area as a "base for energy industry technology".



Organization of the Yokosuka Area



West Area

- W14 Research Building IV**
 - Wireless Power Transfer
 - Power Semiconductor Fabrication / Evaluation Equipment
- W15 Research Building V**
 - Stress Corrosion Cracking Testing Facility for Environment of High Temperature Water
- W16 Research Building VI**
 - High-Voltage Hall
- W17 Research Building VII**
 - Spherical Aberration Corrected Transmission Electron Microscope : Cs-corrected TEM
 - Structural Material Strength Evaluation Test Equipment
 - Secondary Battery Performance Evaluation Testing Equipment
 - New Functional Devices Research Facilities

- W18 Research Building VIII**
 - IoT Laboratory
 - Thermal Cycling Test Apparatus of Thermal Barrier Coating (TBC)
 - Non-Destructive Inspection Equipment
 - Communication Media Experimental Facility
 - Water Electrolysis (PEMWE・AWE)
- W22 Short-circuit Test Building**
 - High Power Test Facilities
- W30 Coal Combustion Test Facility I**
 - Coal Combustion Test Facility
- W32 Coal Gasification Test Facility**
- W35 Thermal Power Feedwater Treatment Test Equipment**
- ★ **Coastal Exposure Test Station**

East Area

- E21 Component Creep Test Control Building**
 - Component Creep Test Facility
- E22 High-voltage Insulation Test Building**
- E28 Long Length XLPE Cable Deterioration Test Building**
 - Long Length XLPE Cable Deterioration Test Facility
- E29 Power Plant Thermal-hydraulic Test Building**
 - Pipe Wall Thinning Test Facilities
 - Fluid Leakage Experiment for The Influence on Personnel and Surrounding Equipment by Pipe Failure
 - Three-dimensional Thermal Hydraulics Test Facility with High-Energy X-ray CT System
- E30 Materials Analysis and Characterization Building**
 - Atom Probe Tomograph
 - Spherical Aberration Corrected Transmission Electron Microscope : Cs-corrected TEM

South Area

- S21 Advanced Fuel Utilization Test Building**
 - Biomass Carbonized Fuel Production Test Facility
 - Liquefied Ammonia-based Solvent Extraction Apparatus
- S22 Heat Pump Test Building III**
 - Research and Development Facility for Industrial and Commercial Heat Pumps
 - Air Heat Exchanger Test Facility for Heat Pumps (Frost-Free Heat Pumps Research Facility)
- S23 Coal Combustion Test Building II**
 - Single-Burner Combustion Test Furnace
- S24 Advanced Distribution Grid Test Building**

North Area

- N21 Fuel Cell Test Building I**
 - Direct Biomass Fuel Cells Test Facility
- N22 Fuel Cell Test Building II**
 - Solid Oxide Fuel Cells (SOFC) / Solid Oxide Electrolysis Cells (SOEC) Test facility
- N25 Heat Pump Test Building II**
 - Evaluation Facility for Residential Heat Pumps

History

- 1977** Established the High Voltage Power Laboratory merged the High Voltage Research Institute (present; the High Power Testing Laboratory).
- 1979** Renamed the Takeyama Testing and Research Center.
- 1985** Renamed the Yokosuka Research Laboratory.
- 2001** Founded the High Power Testing Laboratory.
- 2005** Inaugurated the PD Center.
- 2014-2016** Departments related to nuclear power, thermal power and electric power system and Risk Assessment Research Team of Nuclear Risk Research Center moved to the Yokosuka Area from the Komae Area.
- 2021** Reorganized research system and established Energy Transformation Research Laboratory and Grid Innovation Research Laboratory.

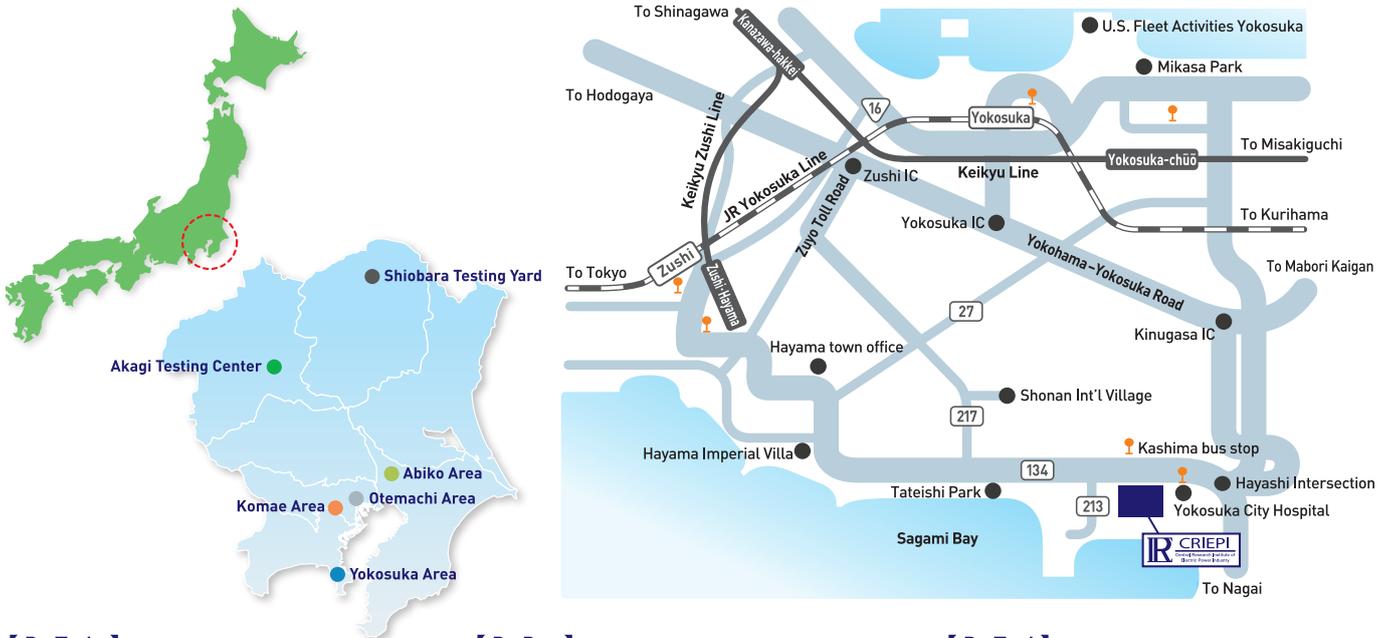
Personnel

(JFY2023)

Total 396

Nuclear Risk Research Center, Risk Assessment Research Team	15	Grid Innovation Research Laboratory	177
Energy Transformation Research Laboratory	182	Yokosuka Operation and Service Center	22

Access



【 By Train 】

You may take JR Yokosuka-Line from JR Tokyo Station for about 1 hour, and get off at "Zushi Station". You may also take Keikyu Line from Haneda Airport for about 70 minutes, and get off at "Zushi·Hayama Station". There are two ways to get to Yokosuka Area from "Zushi Station", or "Zushi·Hayama Station".

【 By Bus 】

At Zushi station, exit from the east entrance and find No.2 bus Station on your left hand side. At Zushi·Hayama Station, exit from the south entrance and find No.1 bus Station. Get on a bus at Zushi Station or Zushi·Hayama Station for "Yokosuka City Hospital" or "Nagai". Get off at "Kashima". It takes about 35 minutes. After getting off the bus, it takes 1 minutes by walk to the main building. Take a bus at Zushi Station or Zushi·Hayama Station for "CRIEPI". Get off at the CRIEPI main building. It takes about 35 minutes.

【 By Taxi 】

Exit from the east entrance of Zushi Station and take a taxi at the taxi stand. It takes about 30 minutes.

Central Research Institute of Electric Power Industry

<https://criepi.denken.or.jp/en/>

Contact: Yokosuka Operation and Service Center
 2-6-1 Nagasaka, Yokosuka-shi, Kanagawa, 240-0196, Japan
 Phone: +81-46-856-2121 Fax: +81-46-857-3072

For details, please visit our website.

