

What is Nuclear Power?

Nuclear power is **carbon-free energy**.



Nuclear is the largest source of carbon-free electricity in the United States!

Data Source: U.S. Energy Information Administration/Nuclear Energy Institute

Contact us

For more information please contact your local Baker Hughes representative, or visit:

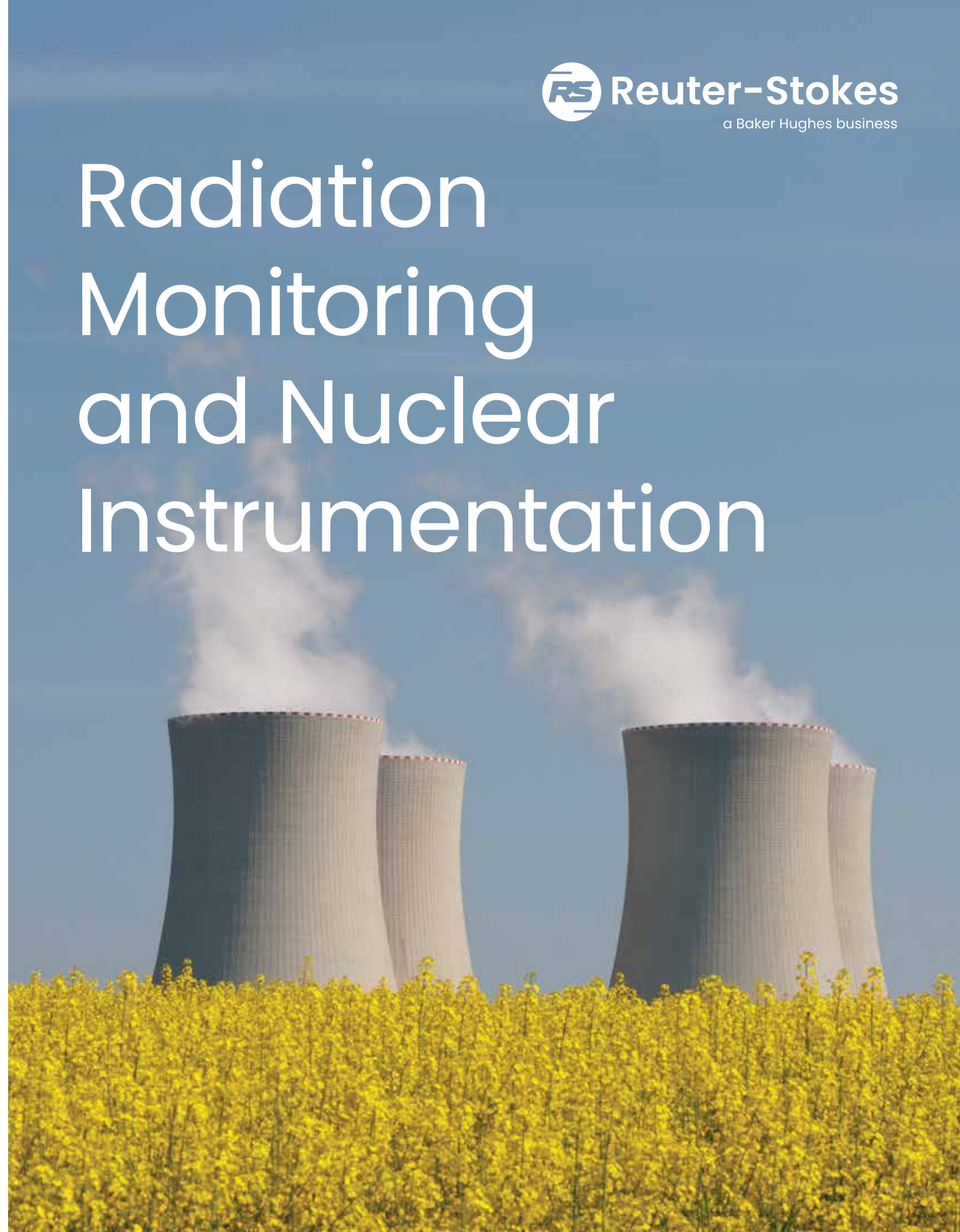
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Baker Hughes 

 **Reuter-Stokes**
a Baker Hughes business

Radiation Monitoring and Nuclear Instrumentation



Gamma and Neutron Measurement Solutions

Reuter-Stokes is an industry leader in radiation monitoring and nuclear instrumentation. With over 60 years of gamma and neutron measurement and monitoring experience, Reuter-Stokes has a full catalog of detectors that can be customized to suite many homeland security, research, and nuclear power generation applications.



Fission Chambers

With both fixed and moveable in-core and ex-core detectors, Reuter-Stokes' catalog of fission chambers specialize in reliable power level measurements in a wide variety of harsh environments. Advantages include extended lifetime as compared to B-10 and BF-3 detectors, and they are well suited for high gamma flux environments.



B-10 Detectors

Reuter-Stokes offers Boron-10 (B-10) lined detectors for a wide range of applications, such as proportional counters and compensated and uncompensated ion chambers. B-10 does not require Special Nuclear Material (SNM) logistics and is well suited for applications that require high sensitivity.

Area Radiation Monitoring

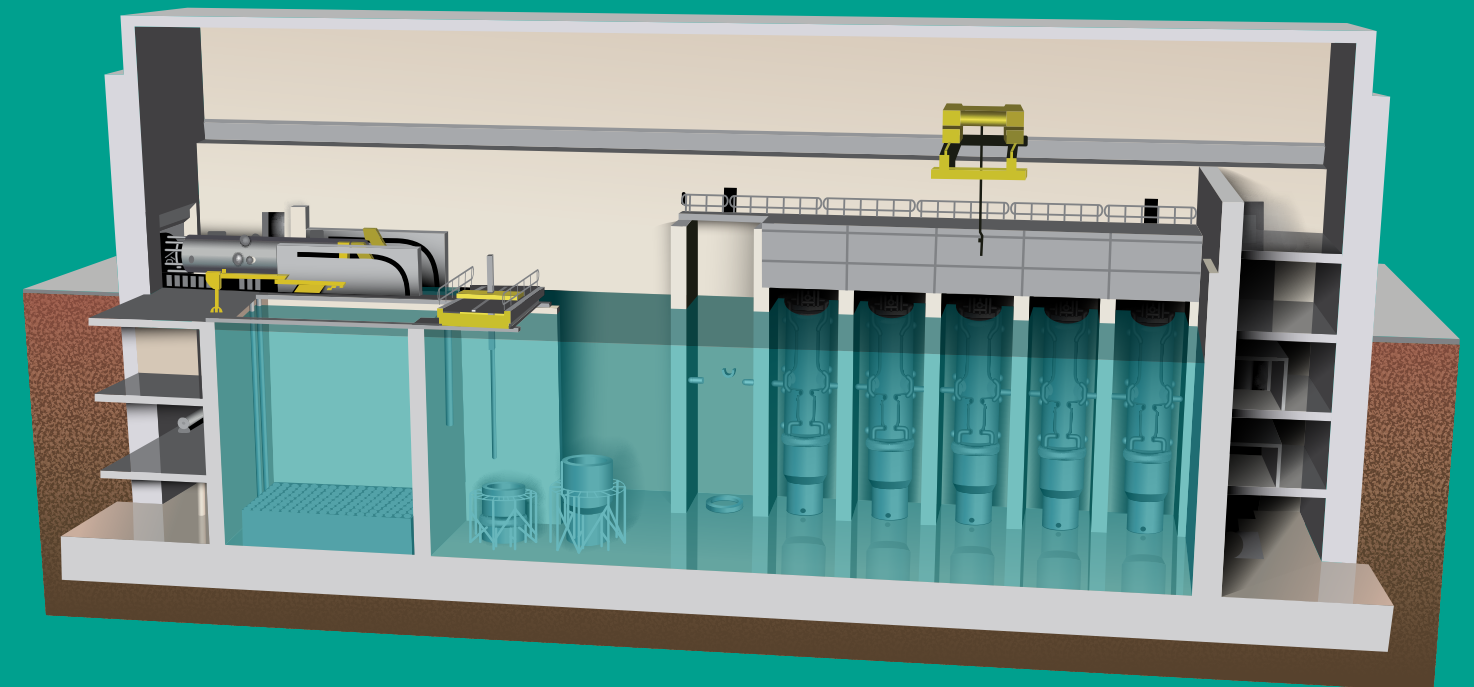
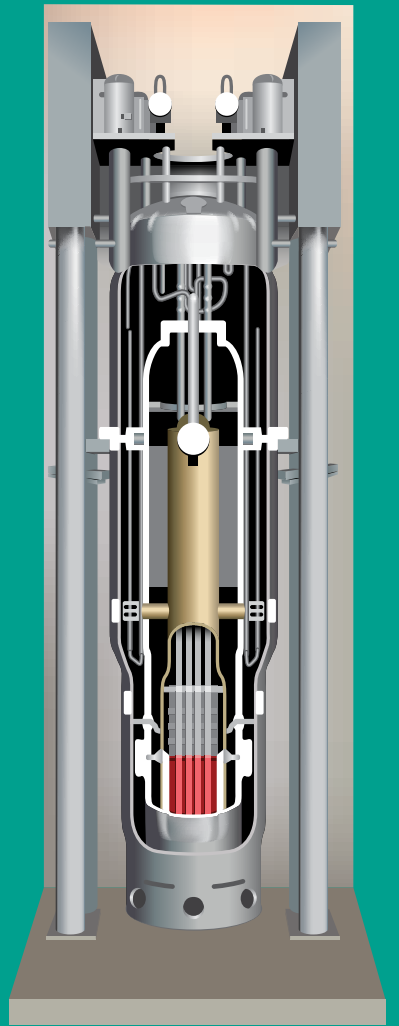
The RSDetection™ Environmental Monitor is a high-performance environmental radiation monitor used to measure gamma radiation in a wide range of applications. With applications ranging from perimeter monitoring to natural background measurements, the typical end users of for this product offering are environmental protection agencies, government agencies, nuclear facilities and universities or laboratories. The history of the RSDetection™ Environmental Monitor can be traced back to the very first commercially available pressurized ion chamber produced by Reuter-Stokes in 1965. Reuter-Stokes has since commercialized several upgraded versions of the pressured ion chamber technology leveraging the benefits of its sensitivity and stability in extreme environmental conditions along with longevity in applications that exceed over 20 years of service in the field. The most recent update to this type of technology was introduced to the market in 2013. Since launch of this iteration in 2013, Reuter-Stokes has sold over 1,100 units to areas all over the globe adding to over 2,000 units sold of previous versions.



Nuclear Instrumentation

Reuter-Stokes, a Baker Hughes business, provides critical components to the Nuclear Instrumentation System (NIS) for source, intermediate, and power range neutron detectors. This includes a large range of pre-engineered and customizable fission chambers and Boron-10 (B-10) ionization chambers and proportional counters. A leader in nuclear instrumentation, Reuter-Stokes offers more than 60 years' experience in the field, with thousands of gamma and neutron detectors deployed.

Reuter-Stokes also offers additional components to support Boiling Water Reactors (BWR) and Pressurized Water Reactors (PWR) including area radiation monitors, gamma thermometer, and dry tube assemblies. Reuter-Stokes detectors can be found in all operating BWR plants worldwide and numerous PWR plants. In addition, Reuter-Stokes is actively developing gamma and neutron monitoring solutions for small modular and advance reactors.



To discuss opportunities for custom solutions, contact us at rsweb@bakerhughes.com