Nuclear Energy

Our Position

Nuclear electricity generation has an important role to play in reducing greenhouse gas (GHG) emissions from the power sector worldwide, and government policies should recognize its zero-emission capability. Based on our experience working with operators and shared goal to dramatically lower greenhouse gas emissions in the power sector, we believe that governments should support the growth of nuclear power - both conventional generation and advanced reactors including small modular reactors - while establishing the necessary regulatory frameworks to promote safe operations, robust community engagement, and effective waste management.

Our Rationale

- Baker Hughes believes all sources of energy have the potential to contribute to an affordable, secure, low-carbon global energy system.
- Conventional nuclear electricity generation is a proven technology with a long track record of success. Nuclear electricity generation can deliver reliable, baseload zero-carbon electricity.
- Nuclear energy can be used to produce low-carbon hydrogen, a versatile energy carrier that has the potential to play a significant role in reducing emissions in hard-to-abate sectors such as steel, cement, and chemicals.
- Small modular reactors (SMR) potentially can be used in new applications due to their ability to be scaled according to a wide range of applications. The modular aspect allows SMRs to be faster and more easily integrated into existing power grids.
- The development of nuclear technology has led to innovations in areas such as materials science, reactor design, and waste management, further driving advances in clean energy technology and other applications. Continued government support for research and development can build on these accomplishments.
- The nuclear energy industry creates lasting, high-paying jobs for people from a wide range of fields and educational backgrounds, with a conventional plant employing hundreds for operations, to peak construction projects employing up to thousands.
- Challenges associated with waste disposal and safety concerns are being addressed through compliance of the rigorous standards and regulations by the industry. A predictable path to license new reactors is necessary in order to deploy advanced reactor designs that are simpler and inherently safer.

Our Actions

With a commitment to innovation and safety, Baker Hughes offers a range of products and services that can support safe and reliable operations of nuclear power plants and SMRs. These

include radiation detection and measurement, steam turbine and generation components, control valves, rotary and reciprocating valves, severe service control valves, pneumatic regulators and field instrumentation, digital solutions for predictive maintenance, asset monitoring, and control systems. With a focus on technology, safety, and sustainability, Baker Hughes is well-positioned to drive the growth of a wide range of reactors, including SMRs, and the broader transition to a low-carbon energy future.