



## Master of Science in Sustainable Energy

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A two-year graduate program with a focus on topics related to sustainable energy and the impact urbanization, transportation and manufacturing have on energy sustainability.



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The HBKU Sustainable Energy master's provides students with extensive knowledge in topics related to sustainable energy and the impact urbanization, transportation and manufacturing have on energy sustainability. The programs also looks at the implications and drivers of sustainable policymaking on society, the economy and the environment. A key component for both degrees is original, guided research in energy science and technologies that support sustainable development. The multidisciplinary approach to the curricula allows for engagement in cross-disciplinary science and builds fundamental knowledge that evolves with the developments within the energy field, equipping graduates with the tools needed to pursue a wide variety of career paths.

The master's program can be customized to focus on different aspects of sustainable energy such as renewable energy systems, conventional energy systems, energy and mobility, energy and urbanization, and energy and environment.

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### Program Focus

Skills to build a successful career in science, engineering and technology including: ethics, technical writing, research methods, data analytics, and advanced computing methods.

Fundamentals of energy engineering, sciences and technologies for sustainability.

Fossil fuel energy usage and environmental impact.

Engineering and scientific development of renewable “green” energy.

Energy storage, distribution and consumption efficiency.

Social and economic aspects of sustainability and energy.

## **Curriculum**

**A 34-credit full-time program, taught in English over two years that includes:**

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- **Core course:**

Sustainability Fundamentals and Tools

- **Core course:**

Research Methods and Ethics

- **Core course:**

Elected Math Core (2 choices)

- **Core course:**

Elected Computation Core (3 choices)

- **4 elective courses**

- **A 6-credit research thesis or an industrial/applied project**

- **2 graduate research seminars**

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## YOU MAY WANT TO CHECK



### Research

Research is integral to Hamad Bin Khalifa University's mission to help build human capacity in Qatar, playing a pivotal role in HBKU's academic programs across all its colleges.

- [Qatar Environment and Energy Research Institute \(QEERI\)](#)
- [Qatar Biomedical Research Institute \(QBR\)](#)