

NURİ BERK BÜYÜKER

Kadir Has University, Industrial Engineering, BSc, 2017 Bringing our energy needs under a correct economic model and becoming prosumers as individuals are the most important challenges of our future.

ARDA ÇANAKÇIOĞLU

İstanbul Aydın University, Mechanical Engineering, BSc, 2017 I have always had a strong desire to be innovative and create value in our society through breakthroughs that help humanity. KHAS is a hub for diligent, innovative, dedicated students, and I feel fortunate to be a member of the CESD community.



ELİF GÜNEY

Boğaziçi University, Political Science and International

Relations, BA, 2017 Friedrich Naumann Stiftung, Program Officer

Since energy is a multidisciplinary area, it's a unique opportunity to experience different perspectives with this program.

GÖZDE NUR KARAGÖZ

Adnan Menderes University, International Trade, BA, 2017 ESD is an interdisciplinary program with professional academicians where you can meet people from different cultures. It is a great opportunity for those who want to improve their knowledge on energy.





BURAK ŞUŞOĞLU

Kadir Has University, International Trade and Finance, BA, 2017 Energy has shaped the world in the last centuries and no doubt it will shape the future. This is a comprehensive program which covers world history and promising energy policies and their applications for the future.

MUSA ENES USLU

the consequences of what we do.

Marmara University, Political Science and International Relations, BA, 2017 The ESD program not only increased my academic knowledge of the

issue of energy, but also helped us change our lives and understand



MELİKE EKEN

Bilkent University, International Relations, BA, 2016 Kadir Has University's Energy and Sustainable Development Program stands out by assisting its students to embrace an interdisciplinary approach to energy issues. I am so glad to have studied at this leading master's program in Turkey.

ELIF EZER

Istanbul Kültür University, Civil Engineering, BSc, 2016 Optimal Project Management, Cost Control and Planning Engineer The Energy and Sustainable Development master program in Kadir Has University is unique for its interdisciplinary curriculum and having really one of the best specialists in their fields.



HAZAL MENGİ DİNÇER Istanbul Kültür University, International Relations, BA, 2015 KHAS CESD, Administrative Assistant

The Energy and Sustainable Development Master's Program is a properchoice for my interest in examining energy policies of states and exploring energy's impact on human life.

NEHİR GÜNDÜZ Kadir Has University, International Relations, BA, 2015 Türkiye İş Bankası, Officer

The program offers a great opportunity to study in interdisciplinary fields such as geopolitics, economics and engineering. Kadir Has University enables its students to specialize in such a complex field of energy and sustainable development.



KELECHI ABRAHAM OMYEMAUCHE

Ananbra State University, Mechanical Engineering, BSc, 2015 The Energy and Sustainable Development Program is a great place for those who want to gain knowledge on the importance of sustainable energy in the world.

MESUT CAN YILMAZ

Istanbul Aydın University, International Trade, BA. 2015 Yasa Shipping, Purchasing Department Officer

The Energy and Sustainable Development master program in Kadir Has University is unique for its interdisciplinary curriculum and having really one of the best specialists in their fields.



KADIR HAS UNIVERSITY ENERGY AND SUSTAINABLE DEVELOPMENT **MASTER'S PROGRAM**



EMAN ABUSAADA

Islamic University of Gaza (IUG), Civil Engineering, BSc, 2013 I was searching for a full program in terms of sustainable energy courses. I have found this in Kadir Has University as it offers a wide range of unique courses in energy technology and sustainable development.

BATUHAN ALKAN Kadir Has University, Industrial Engineering, BSc, 2013 TRANSPET, Logistics Specialist

I work for an oil trade and transport company, and strongly believe that this master's program will change many things in my life in a positive way.





VILDAN DEMIRKIRAN Izmir University of Economics, International Relations and

I preferred the ESD program because it is part of School of Graduate Studies and I'm coming from a bachelor degree in international relations. I'm very satisfied with the ESD program.

Uludağ University, Environmental Engineering, BSc, 2007 TÜV Rheinland, Business Development Manager

Besides the academic areas, the program focuses on industry and the energy sectors, which make it an excellent choice for those



Ankara University, Labour Economy and Industrial Relations, BA' 2006 / DenizLeasing, Project Finance Department This program is a unique resource to reflect both the historical background of the subject and shed light on the future. We have the opportunity to learn a great deal of information for our careers and our intellectual and academic enrichment.

CENTER FOR ENERGY AND SUSTAINABLE DEVELOPMENT



🔄 twitter.com/Khasedutr





coal

trade

European Union, BA, 2013

TUNA ALPER SEZGÍN hoping to be professionals in energy business.









Center for Energy and Sustainable Development (CESD) Hazal Mengi Dincer hazal.mengi@khas.edu.tr

90 (212) 533 6532, Ext. 4944 School of Graduate Studies: sgs@khas.edu.tr

For International Applications: international@khas.edu.tr

Web Page:

https://sgs.khas.edu.tr/en/programs/master-degree-programmes/ energy-and-sustainable-development/about-the-program





SCHOOL OF **GRADUATE STUDIES**



Prof. Dr. Volkan Ş. Ediger Program Director

As a vital input of the economy, energy underpins the economic development of nations. Yet fossil fuels still constitute roughly 90 percent of the world energy system, a reality that is unsustainable in the long term due to resource scarcity, local environmental problems, and global climate change. At the same time, demand for natural gas, the world's cleanest fossil fuel, is growing due to its role



as a transition fuel on the path towards a low-carbon energy system, and geopolitical rivalry surrounding gas will continue to deepen among major gas producers and consumers. This rivalry will, in turn, accelerate the struggle for energy resources and cause global economic and political destabilization.

These challenges are harder to tackle in developing countries than in the industrialized world. As one of the world's most important emerging markets, the Turkish energy system can be used as an example to other developing countries. Turkey requires considerable supplies of energy to support its rapid economic development, but it cannot meet this demand from domestic sources and has to import roughly three quarters of its energy from abroad. This dependence on foreign sources threatens Turkey's energy security and, in the process, its national security. In the twenty-first century, no economy is sustainable under such high level of energy-import dependence.

In recent years, a number of graduate programs on energy have been launched in various countries, but these fall short of meeting the needs of the sector due to their contextual and structural features. Specifically, they generally focus on a certain aspect of energy, whether it be in geological engineering or policy, and therefore neglecting energy's interdisciplinary nature. The Energy and Sustainable Development (ESD) Thesis/Non-Thesis Master's Program was launched in the 2016-2017 academic year at Kadir Has University (KHAS) in Istanbul to address this gap. The program brings together several disciplines in social sciences, physical sciences and engineering to allow students to make connections across different fields and learn to adapt to this constantly evolving field. Students benefit not only from their classroom studies, but also through the program's coordination with the Center for Energy and Sustainable Development (CESD), which further encourages interdisciplinary research and practice.

The Energy and Sustainable Development Master's Program enables international students to specialize in various areas of energy. Students can choose from a wide range of departmental and non-departmental elective courses in addition to the compulsory courses in four main areas: energy science and engineering, energy finance and economics, management and policies of sustainable development, and energy security and geopolitics. In addition to the theoretical knowledge provided by the courses, students gain real-life experience through seminars given by experts in the field.

ADVISORY COMMITEE

Dr. Selahattin Anaç, Former General Manager, Turkish Coal Enterprises Değer Boden, Boden Law Office Prof. Dr. İskender Gökalp, Director of CNRS-ICARE, France Mete Göknel, Energy Analyst Prof. Dr. Baha Karan, Hacettepe Uni., Faculty of Economics and Administrative Sciences **Dr. volkan Özdemir.** Director of EPPEN Prof. Dr. İskender Gökalp, Director of CNRS-ICARE, France Necdet Pamir. Bilkent University Dr. Uygar Özesmi, Founder of Good4Trust Dr. Değer Saygın, Director of SHURA Dr. Okan Yardımcı, EMRA, Energy Expert

ACADEMIC STAFF



Prof. Dr. Mitat Çelikpala, Department of International Relations Prof. Dr. Meltem S. Ucal, Department of Economics Assoc. Prof. Dr. A. Deniz Yücekaya, Department of Industrial Engineering Assoc. Prof. Dr. Gökhan Kirkil, Department of Industrial Engineering Assoc. Prof. Dr. Cem Özen, Bioinformatics and Genetics Department Asst. Prof. Dr. Emre Çelebi, Department of Industrial Engineering Asst. Prof. Dr. Hamid Akın Ünver, Department of International Relations Asst. Prof. Dr. Oğuzhan Ceylan, Department of Management Information Systems Dr. Uygar Özesmi, Good4Trust, Part-time Instructor Dr. John Bowlus, Visiting Scientist, KHAS, Part-time Instructor Değer Boden, Lawyer, Part-time Instructor

L. Umut Feyzioğlu, Project Finance Manager, Türkiye İş Bankası, Part-time Instructor

CURRICULUM

The Energy and Sustainable Development Master's Program, which was designed by taking the interdisciplinary nature of energy field into consideration, enables students to specialize in one of the four major tracks, including economy and markets, policy and geopolitics, sustainability and environment, and engineering and efficiency. The most important advantage of the program, which is open to students with bachelor degrees from different disciplines, is the opportunity provided to acquire expertise in energy and sustainable development, whose importance is continuously increasing. The program is designed to be conducted completely in English to increase the competitiveness of students in the careers they will pursue whether in Turkey or abroad. The program has the thesis and non-thesis options to fulfil the varying needs of the students.

The Energy and Sustainable Development Master's Program inculcates an interdisciplinary approach to the study of energy and sustainable development, whose importance in global affairs will only continue to grow. It enables students to specialize in one of the four major tracks - (1) economy and markets, (2) policy and geopolitics, (3) sustainability and environment, or (4) engineering and efficiency while taking advantage of a host of elective courses. It is open to students with bachelor degrees from different disciplines and is conducted completely in English to increase the competitiveness of students in their subsequent careers, whether they choose to pursue them in Turkey or abroad.

For the thesis track, students are required to complete 120 ECTS course credits and complete their master's thesis in accordance with the procedures indicated in the university's regulations and directives. Students earn 60 out of their 120 credits from compulsory and elective courses and 60 from the thesis. On the other hand, for the non-thesis track, students are required to complete 90 ECTS course credits, 75 of which from compulsory and elective courses and 15 from graduation project.

Departmental Elective Courses

ESD 510 Energy Science and Engineering ESD 511 Advanced Renewable Energy Technologies ESD 512 Energy Modelling, Simulation, and Optimization ESD 513 Computational Tools in Energy Science and Engineering ESD 514 Advanced Wind Energy ESD 520 Energy Markets and Economy ESD 521 Energy Project Development and Financing ESD 522 Energy Exchange Markets ESD 523 Turkish Energy System ESD 524 Energy Project Management and Law ESD 525 Econometric Modelling for Energy Policy Evaluation ESD 530 Sustainable Energy Policies and Management ESD 531 Energy Efficiency Management ESD 532 Sustainable Energy and Society ESD 533 Carbon Economy and Markets ESD 540 Energy Security and Geopolitics ESD 541 Energy Security of Turkey ESD 542 Energy Transportation and Logistics ESD 543 Oil and Gas Pipelines ESD 544 International Energy Policies ESD 550 Special Energy Topics

Departmental Compulsory Courses

GSS 501 Research Methods GSS 580 Graduation Project GSS 598 Seminar GSS 599 Thesis

Non-Departmental Elective Courses

- IE 502 Engineering Project Management IE 503 Engineering Optimization and Applications IE 506 Financial Management MIS 513 Project Management IR 545 Energy Politics
- IR 546 Eurasian Security and Geopolitics
- IR 548 Middle Eastern Politics IR 645 Energy Politics
- IR 646 Geopolitics of Eurasia
- EC 522 Political Economy of Development
- EC 526 International Economy
- EC 531 Applied Econometrics
- EC 540 Public Finance EC 625 Economy of Growth
- CE 514 Data Mining
- FE 525 Financial Modelling

SCHOLARSHIP AND TUITION FEES

KHAS has an extensive scholarship program to support well-gualified national and international students in their studies at KHAS. Tuition waiver scholarships are available for all qualified applicants up to 100%. The details are explained on the following websites: https://sqs.khas.edu.tr/ https://international.khas.edu.tr/tuition-fees

APPLICATION REQUIREMENTS

Criteria and requirements for graduate programs at Kadir Has University are stated comprehensively at: https://sqs.khas.edu.tr/ https://international.khas.edu.tr/application-requirements