



Renewable Energy System Management

Executive Certificate Program



K4S AT A GLANCE

Vision: K4S (Knowledge4Sharing) is a non-profit, charitable academy for Sustainable Development, covering all Sustainable Development Goals (SDGs) and their related thematic issues. It brings together brilliant minds and key players from the different business sectors internationally under one mission - to share the experience and knowledge that was gained in world leading industries and universities.

Mission: Our aim is to support people around the globe who are lacking necessary funds to allow themselves to receive appropriate high level education. We are creating for them the opportunity to be prepared for the world of tomorrow, by offering world class education.

Value: Participants will be asked to donate a symbolic amount of money (up to 20 Euros) during the registration process and all donations will go to charity. At the end of each program all the participants will decide together where to transfer money (e.g. homeless baby shelters, people with hard diseases, aid to families with dependent children, etc.). When a transaction is completed proof of payment is provided to the participants for transparency.

Each and every program is designed by worldwide experts according to international standards and proven best practice, providing executive and comprehensive knowledge about each and every subject provided within the scope of the program.

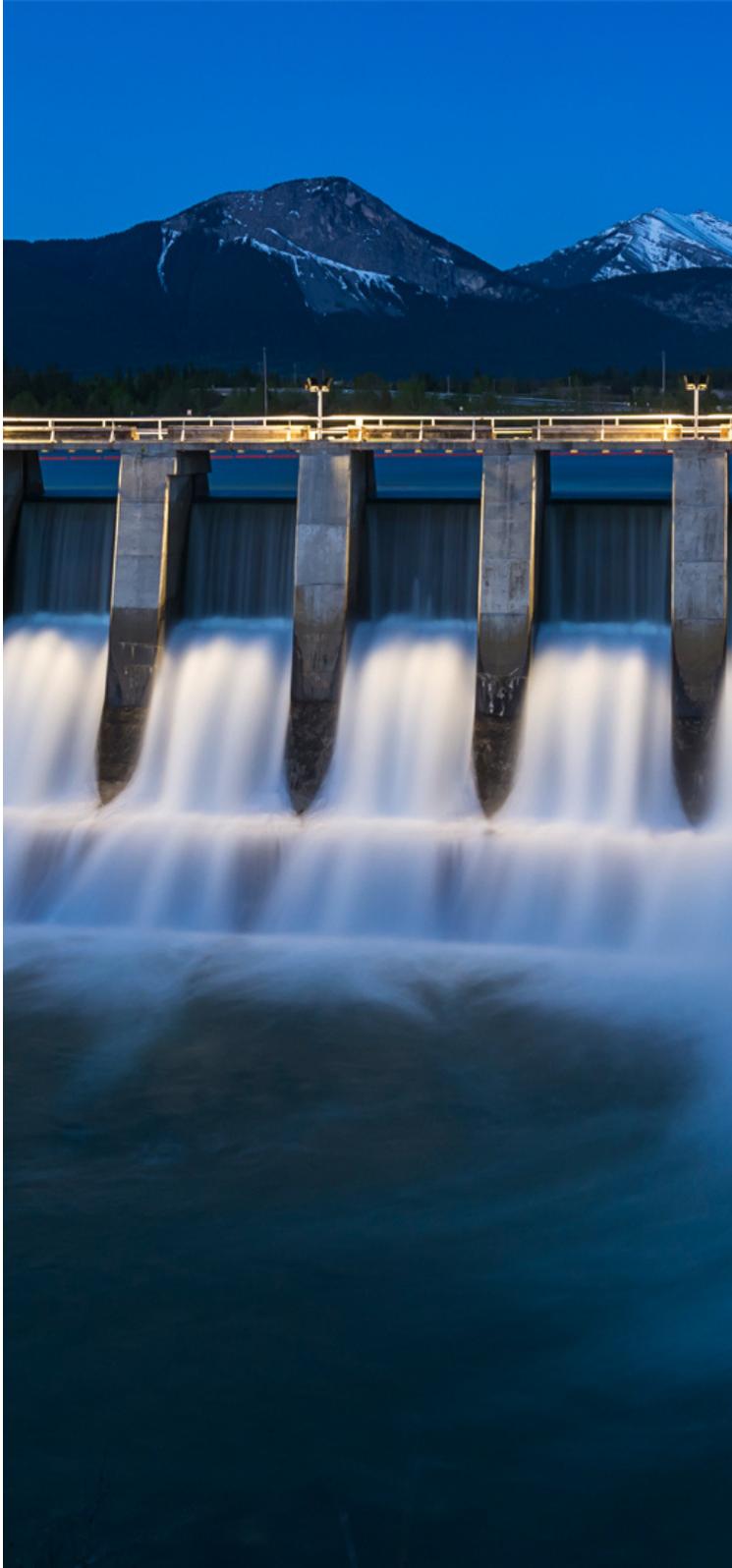
K4S is supported and acknowledged by international organizations, governments, academia and industry representatives.



This is a never-before-seen phenomenon,
this is a true sustainable revolution,
this is K4S - Knowledge for Sharing,
Charity and a Better Future.

WWW.K4S.ACADEMY

K4S@K4S.ACADEMY



Energy is at the heart of the solution to the climate challenge.

Climate Change is the biggest challenge of the 21st century, which is affecting every country on every continent. It is disrupting national economies and affecting lives. Weather patterns are changing, sea levels are rising, and weather events are becoming more extreme.

Saving lives and livelihoods requires urgent action to address both the pandemic and the climate emergency. Realizing crisis moment and putting forward adaptation and mitigation options is crucial.

Our current reliance on fossil fuels is unsustainable and harmful to the planet, which is why we have to change the way we produce and consume energy. Implementing new energy solutions as fast as possible is essential to counter climate change, one of the biggest threats to our own survival.

The only way is to accelerate the energy transition process by unlocking resilient cultures and societies and ensuring universal access to affordable and clean energy to all.

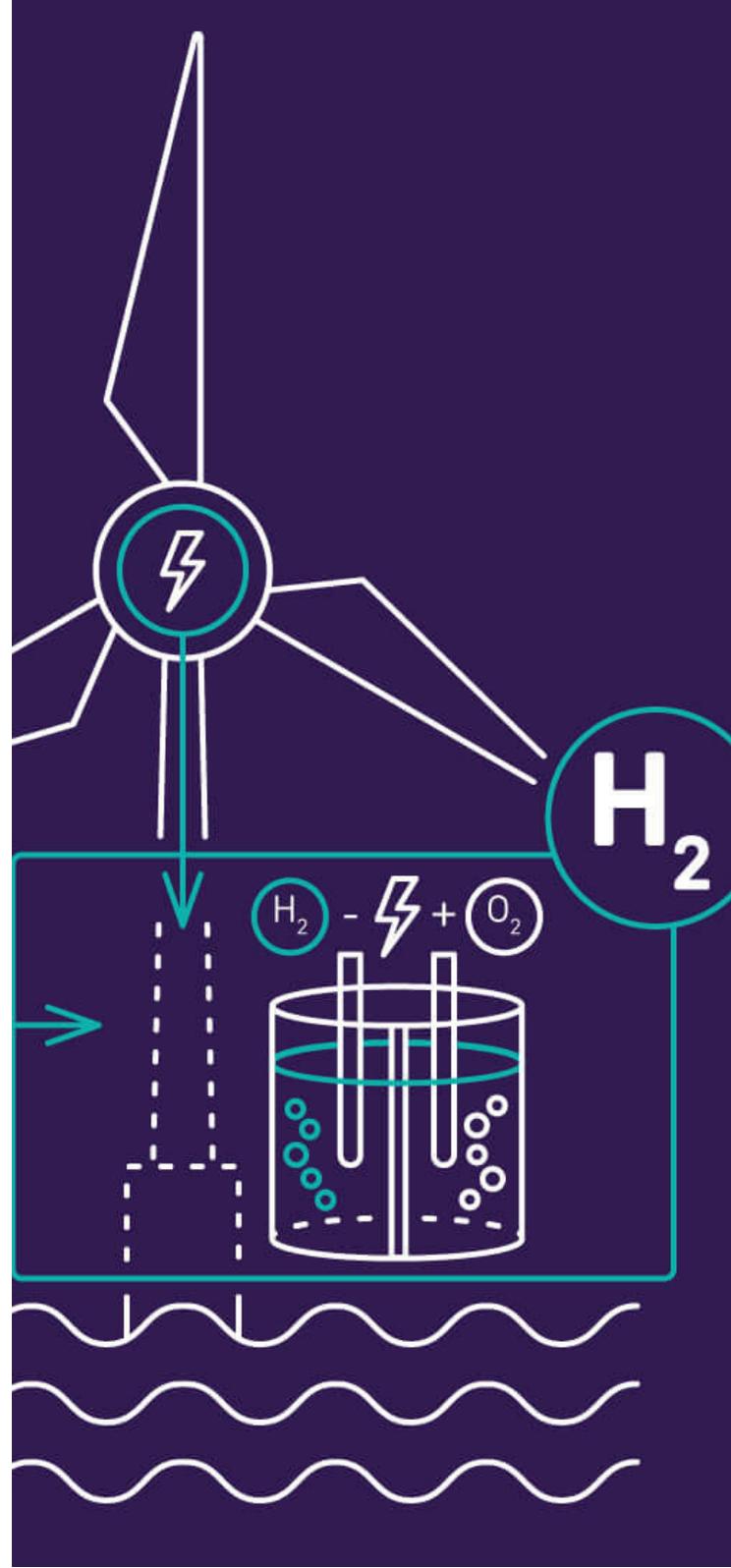
The Executive program in Renewable Energy System Management focuses on the business, technical and economical aspects of the respective renewable energy systems. After successful completion of the program you will become a highly valuable asset to the whole energy industry with appropriate skills and necessary knowledge to make a positive impact on climate change, energy transition and sustainable development.



During the program participants acquire a solid foundation in key renewable energy technologies, business concepts and will work on Innovative Energy Projects

Program Covers:

- Energy Analysis, Storage & Energy Efficiency.
- Energy Transition from the techno-economic and sociotechnical perspectives.
- Sustainable Development Goals and ESG principals.
- The latest trends for each of the main renewable power technologies (PV, Wind, Hydrogen, Offshore Energy, Hydropower, Geothermal, Solar Thermal Power) the renewable power generation costs, levelized cost of electricity (LCOE), and cumulative total renewable power installed capacities.
- Energy Calculations and main engineering considerations.
- Project management/Process development phases including Development period, Permitting process, Financing process, Tendering process, Construction period, Commissioning & Operational phases.
- Energy Markets, Regulation, Policy and Law. EU Green Deal Objectives, Fit for 55, EU Energy System Integration and Hydrogen Strategies.
- Overview of the EPC contract, O&M Agreement and PPA.
- Types of project finances, cost-benefit analysis, characteristics of corporate financing including but not limited: Risk Analysis, Cash Flow, CAPEX, OPEX, PV, NPV, Debt/Equity, WACC, Project and Equity IRR. Business Case Analysis.



- Private Equity and Venture Capital.

- ESIA, IFC Performance Standards, Sustainability Assessment Protocols.

- UNFCCC overview from Kyoto to COP26.

- Digitalization of Renewable Energy Assets, Blockchain, Smart Grids and Smart Cities.

- Energy Case Studies.

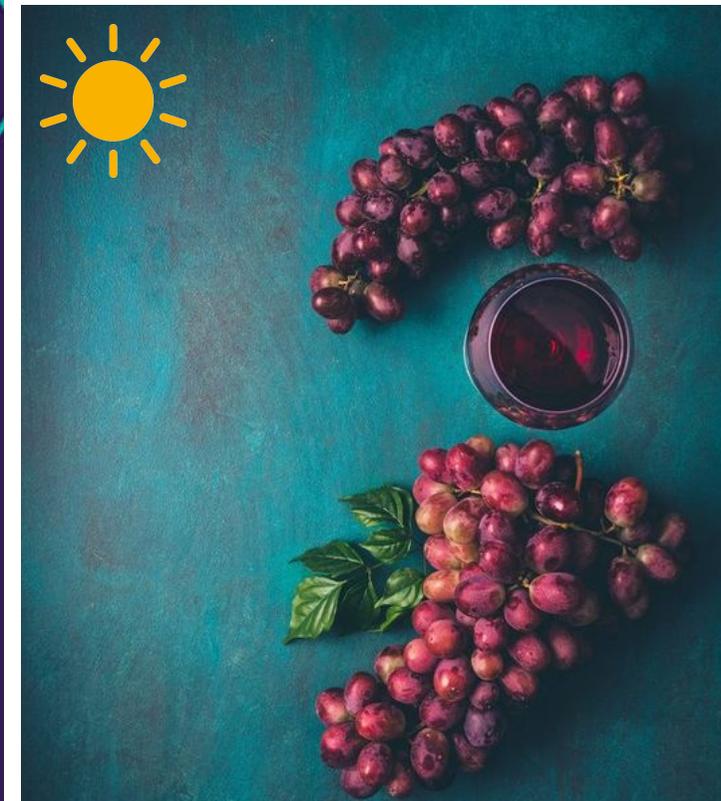
- Innovative Energy Projects Development.

Additionally:

- Winemaking & Solar Thermal Power.

- Food Production & Geothermal Energy.

- Sustainable Real Estate.



Program : 29 January, 2022 - 14 March, 2022



STEP 1: REQUEST A REGISTRATION FORM VIA THE FOLLOWING EMAIL: K4S@K4S.ACADEMY

STEP 2: SEND BACK FILLED FORM AND AFTER CAREFUL ASSESSMENT OF YOUR FILE YOU WILL RECEIVE A CONFIRMATION FROM OUR TEAM

STEP 3: AFTER RECEIVING A CONFIRMATION YOU WILL BE ASKED TO PAY REGISTRATION FEE AND YOU WILL START THE PROGRAM

NOTE: PLEASE SEE DETAILED SCHEDULE ON THE FOLLOWING WEBSITE: WWW.K4S.ACADEMY





Program Language: English

Method: eLearning

Program Duration: 5 + 2 Weeks

Lecture: 3 per Week

Each Lecture Duration: 2 Hours



Energy Program Team



DAVID OTARISHVILI
Founder K4S & Renewable Energy Program
Manager

Mr. Otarishvili is a Devoted Son, Husband, Father and Energy Executive. He is an expert of the renewable energy industry with a specialization in low-carbon hydrogen value chains. With international working experience mainly in the Netherlands, France, Iceland and Georgia he participated in the development, financing and execution of renewable energy projects with a value of more than 2 billion euros worldwide. He holds an M.Sc. degree in European Master of Sustainable Energy System Management (The Netherlands), and has been awarded a Holland Scholarship by Dutch Ministry of Education, Culture & Science. Beside that, he holds an international diploma for occupational Health, Safety and Environmental Management (UK) and Mastering Corporate PPA (UK). Mr. Otarishvili is a chairman of B&C Sea Hydrogen Alliance and manages the clean hydrogen business unit at the global engineering and management consulting company H2exagOn.



DR. IR. WIM VAN GEMERT
Guest Lecturer - Energy Transition

Dr. Ir. Wim van Gemert studied Chemical Engineering at the Technical University Eindhoven, The Netherlands, where he earned his PhD. Wim worked for TNO, the Dutch Organization for Applied Research and in the late eighties he joined Gasunie, a main European natural gas trading and transmission company. In many ways he has been involved in managing innovations, in a European context. Since 2006, Mr. Gemert was connected to the Center of Expertise for Energy of the Hanze University of Applied Science, Groningen, as a 'Leading Lecturer Energy Transition' and was one of the main person responsible for setting-up of Energy Transition Center "EnTranCe" by connecting a variety of partners from his personal network RenQi, an open innovation center for sustainable energy-infrastructure. Wim is a Founding Partner of ResKey International Organization for a Resilient Culture which is currently under development. For his brilliant achievements in the energy sector and sustainable development in general the commissioner of the King of the Netherlands in the province of Groningen, Dr. MJ van den Berg, awarded a Royal Honor to Dr. Ir. WJT van Gemert. Additionally for his contribution in the region of the North of The Netherlands Hanze University of Applied Sciences awarded Wim with the silver Hanze Coin of Merit.



STEFFEN WALVIUS
Guest Lecturer - Sustainable Development

Mr. Walvius is a sustainability specialist for commercial real estate. He's heading the sustainability consultancy business for Central and Eastern Europe at JLL, one of the world's largest real estate service companies. He has over ten years of experience in the construction, energy and real estate sectors. Steffen started a sustainability consultancy business a couple of years ago and has helped numerous real estate investors, developers, owners and managers adopt better environmental, social and governance (ESG) business practices and build green & healthy buildings. With a BSc in civil-structural engineering and an MSc in sustainable energy, he has a solid technical understanding, making him a good intermediate between corporate teams and stakeholders with boots on the ground. He is full of passion and wants to teach everything he knows to ensure we advance on sustainable development as fast as possible.



IRAPUA SANTOS RIBEIRO

Guest Lecturer - Concentrated Solar Thermal Power

Mr. Ribeiro is a Mechanical Engineer with a Master in Renewable Energy and an MBA in Project Management. He has more than 10 years of experience in various industries such as mining, steel and railways, where he developed and implemented projects in the areas of production capacity expansion, business continuity and plant renewal. He devoted his last five years to the solar industry, where he specialized in concentrating technologies. Since 2018, he has been responsible for business development, sales and marketing strategies at Industrial Solar GmbH.



JON ZAYAS CASTRO

Guest Lecturer - Wind Energy

Mr. Zayas Castro is an Industrial Mechanical Engineer who studied at the University of The Basque Country (Spain) and carried out his final thesis at the Solar Lab of the University of Applied Sciences of Emden/Leer (Germany). Moreover, he studied a M. Sc. in Renewable Energy hold by the Hanze University of Applied Sciences of Groningen (The Netherlands) and EUREC, where he was then specialized in Wind Energy at the National Technical University of Athens (NTUA, Greece). During the last years of his career, he has been working with top leading wind turbine manufacturers such as Goldwind in Beijing (China) and Siemens Gamesa in Madrid (Spain) and has also been developing RE projects in the north of Spain with Capital Energy building up a portfolio of more than 1 GW. Currently, he is working with the international RE producer Statkraft materializing a wind portfolio of 1.4 GW in the Iberian Peninsula.



ELLIOT MORGAN

Guest Lecturer - Solar PV

Mr. Morgan holds a Bachelor's of Mechatronic Engineering from the University of New South Wales (UNSW) and a Master's of Science in Renewable Energy (Photovoltaics) from Hanze University of Applied Sciences. With experience in both the software and renewable energy industries, Elliot has spent the last 4 years working in a project managerial and design capacity in the Caribbean and the Netherlands, and has deployed projects in Latin America, Africa, Europe and Asia. Elliot currently works as an Asset Manager at Sunrock BV in Amsterdam, the Netherlands.



IKHATIA SHAVERDASHVILI
Guest Lecturer - IT and Energy

Ms. Khatia Shaverdashvili holds a bachelor's degree in International Relations from Caucasus University, Georgia and is a master student of energy policy studies at Masaryk University, Czech Republic. Her energy sector experience includes BP South Caucasus Pipeline Expansion Project and Namakhvani Hydropower Project. Later, this experience became a turning point for her to pursue education in the energy field. While exploring energy policy at Masaryk University, Khatia started working for IBM. Currently, she is working at the company as IT change Manager for a multinational energy company - one of the biggest clients of IBM. Khatia 's areas of interest are the role and benefits of technology in the energy sector.



CINTA PEERDEMAN
Guest Lecturer - Geothermal Energy

Mrs. Peerdeman holds a Bachelor's degree in Science, Business, and Innovation, and a Master's degree in Sustainable Energy Systems Management (SESyM), plus a Master's degree in Sustainable Food Systems (Master in Gastronomy - World Food Cultures and Mobility) from the University of Gastronomic Sciences.

One of the graduation internships she did was in Tuscany, Italy, at a brewery that uses geothermal energy as its primary energy source. Here she researched the sustainability of beer produced with geothermal energy and how the environmental sustainability could be improved without compromising the quality of the beer and the economic viability of the brewery. For another graduation internship, she went to Indonesia where she studied the opportunities and implications of sustainable tourism on coffee farms in East-Java.

In 2018, she started her own company and since then she is working as a freelancer on a wide variety of sustainability projects, such as on wind energy in southern Italy, LCA on cycling apparel, and the combination of geothermal energy and food production. Her focus is always on people and making a positive impact on people's lives through sustainability projects. Cinta is currently based in Rome.



TINEKE VAN DER MEIJ
Guest Lecturer - Hydrogen

Mrs. van der Meij studied Physics and Astronomy, followed by a PHD in Experimental Physics, both at University Utrecht. From 1990 till 2018 she worked at NV Nederlandse Gasunie (Dutch gas infrastructure company) in 10 different functions: from flame research to procurement, account management transport services, regulation, operational audit, safety, finance and strategy& innovation.

In 2018 she started her own business EnergyGardenNL as a free lance consultant, adviser, project manager and guest lecturer in renewable energy topics. Current activities are predominantly hydrogen related, with assignments at Hanze University of Applied Sciences and New Energy Coalition. She enjoys to work on the interface of innovation, research and education and is based in Groningen, The Netherlands.



RORY VAN WEERDENBURG
Guest Lecturer - Offshore Energy

Mr. van Weerdenburg is a specialist in offshore energy, having worked in offshore oil and gas and marine renewables energy for 14 years. Rory currently works as a Project Development Manager at Aker Offshore Wind, an offshore wind developer focused on assets in deep waters and specialized on floating energy systems. Prior to joining Aker, Rory worked for several ocean energy companies, helping design and test new wave energy converter concepts and developing pre-commercial projects.

After graduating with a Bachelor of Mechatronic Engineering from the University of Queensland, Rory began his career working nearly a decade in subsea project execution for Australia's largest independent oil and gas company. In 2016, Rory relocated to Europe to complete his MSc in Renewable Energy (Grid Connection) and transition his career to renewable energy.



ANA LEJAVA
Guest Lecturer - Energy Efficiency

Born and raised in Tbilisi, Georgia, Ana is a Research Analyst at the Tbilisi-based renewable energy and energy-efficiency company, Enovus. She has a BA in Political Science and is currently pursuing graduate studies at Georgetown University's Walsh School of Foreign Service, focusing on Eurasian, Russian, and East European Affairs. Ana's research is focused on Global Human Development and exploring how renewable energy, CSR, and ESG activities can further support sustainable economic development in the Eurasian region. Previously, she has worked for the Permanent Mission of Georgia to the United Nations, participating in the drafting of the 2020 Sustainable Development Agenda at the UNGA, and has served as a Young Ambassador of Georgia to the United States, using public and cultural diplomacy to strengthen ties between the two countries. Ana is an author of the Dzegvi Solar Energy campaign and an avid supporter of Green and Sustainable philanthropy efforts.



IRAKLI SAMKHARADZE
Guest Lecturer - Energy Market Analysis
(Regulation, Policy, Law)

Dr. Irakli Samkharadze is an Associate Professor in International Law and the Head of European Integration Research Centre at Georgian National University. He holds the LL.M. degree in International and European Public Law from Erasmus University Rotterdam, the Netherlands and he has previously worked as an International Scholar at KU Leuven's Institute for Energy and Environmental Law in Belgium and DAAD Research Fellow at Friedrich-Schiller University of Jena, Germany. His particular research interests cover EU energy law and climate change, legal harmonization in non-EU countries and decarbonization solutions including hydrogen. He currently works as a Southeast European regional coordinator of GIZ Connective Cities programme and he has proven experience in cross-border project management, advisory and consultancy services in Georgia and abroad. Being connected and deeply embedded in the international community of sustainability, climate and energy, he frequently speaks at international and national conferences and regularly contributes to conventional and online publications.



K4S - Knowledge for Sharing,
Charity and a Better Future.

"At K4S world leading experts gathered with a common vision - Qualitative education is a key to a sustainable future! Talented people with totally new resilient mindsets are needed to have a positive impact on Climate Change by creating resilient societies, cultures and resilient, sustainable economies. But unfortunately, the majority of people lack the necessary funds to receive a high level education and gain appropriate skills. To solve this problem Sustainable Development Academy K4S was founded and by sharing world class, future oriented knowledge, our main mission is to create equal opportunity for everyone.

Besides gaining necessary knowledge during the program participants will work on the innovative energy projects to address existing challenges on the energy markets all around the world.

Similar educational programs cost varies between 10,000 and 15,000 Euros on the international markets, while in our case participants will be asked to donate a symbolic amount of money (up to 20 Euros) during the registration process and all donations will go to charity. Besides unlocking access for everyone to the world class knowledge, our aim is to create additional value by addressing pandemic emergency and financially support people who need it most."

- David Otarishvili, Founder K4S