EUROPE GLOBAL PERSPECTIVES ON ENERGY AND THE ENVIRONMENT
STUDY ABROAD SPRING 2022

Join us for an instructive experience as we tour countries in Europe that are globally leading the way in the adoption of renewable energy. In Italy, we will tour a waste incineration plant that generates electricity and a pumped hydro storage facility used to store energy when demand is low. We will also visit the Rome temple, and a solar PV fabrication facility, and the Vatican (which is powered entirely by solar PV energy). In Spain, we will tour concentrating solar plants that generate electrical power. In Denmark where 49% of the country’s electrical demand is generated from wind energy, we will see wind turbine farms, climbing to the nacelle of a 750 kW wind turbine, and we will tour multiple turbine fabrication plants. In Iceland, we will visit hydroelectric power stations and geothermal co-generation plants that provide residential heating to the entire country’s population while also generating steam for electricity production. In each country, we will hear from local technical experts highlighting how renewable energy fits into the country’s energy portfolio. We will also be exposed to the culturally rich heritage and unique geography of each country, visiting sites of interest and sampling traditional local cuisine.

A seminar series 2nd block of Winter Semester will expose students to world energy reserves, environmental considerations related to energy production and use, the importance of government energy policy, and total economic analysis of energy-producing methods. Prior to departing for Europe, we will also visit local energy-related sites. The course will provide three credits of engineering technical elective toward graduation. The course is open to all majors, but preference will be given to engineering students who have taken the introductory Thermodynamics course.

DATES
Spring Term 2022. On-campus instruction will take place 2nd block of Winter Semester, and all local site visits and international travel will take place for 17-19 days between 27 April – 18 May 2022 (3-4 days locally and approximately two weeks in Europe).
HOUSING
We will visit Italy, Spain, Denmark, and Iceland, and possibly Sweden, focusing in each country on a different aspect of renewable energy. We will stay in hotels along the way, traveling from the hotels to energy-related sites.

COURSES
Prerequisites:
ME 321 (Thermodynamics) or equivalent preferred, or instructor approval

Students will register Spring Term 2022 for 3 credit hours of ME En 495R – Special Topics in Mechanical Engineering (Global Perspectives on Energy and the Environment). Students will also register for a 1 credit hour seminar course the second block of winter semester.

COST
$5,600–$6,000 ($1,000 scholarship will be given by the Weidman Center for Global Leadership to student participants majoring in a program within the Ira A. Fulton College of Engineering).

The total cost includes Latter-day Saint undergraduate tuition for 3 credit hours spring term, airfare from SLC airport to/from Europe, air travel between the European destinations, in-country transportation, lodging, breakfast in most hotels, a cultural dinner in each country, and international health insurance coverage. All airline reservations will be made for the group by the program directors.

Not included:
Personal expenses, other meals.

PREPARATION
All participants are required to show proof of complete COVID-19 vaccination by the time the program Prep class begins.

FUNDING SOURCES
Regular BYU tuition scholarships, Pell Grants, and Federal Insured Student Loans may be applied to Study Abroad programs, provided the university requirements of the financial assistance are met. Students who submit the financial aid section of the ISP application, and who have a current FAFSA form on file at the Financial Aid Office (A-41 ASB), will be considered for a Study Abroad scholarship. Academic departments and colleges may assist with scholarships and grants. Private grants and scholarships outside of BYU may also assist (see kennedy.byu.edu/isp/financial-aid/). Students majoring in Fulton College of Engineering will receive $1000 in support from the Weidman Center.

APPLICATION PROCESS
Complete the online application at kennedy.byu.edu/apply.
A non-refundable $35 application fee is required. Applicants will be interviewed once the application is complete and will be notified via e-mail of their acceptance into the program. Please refer to the 2022 Payment Information document for payment schedule (see https://kennedy.byu.edu/isp-forms/ISPpayments2022.pdf).

Deadline: 28 December 2022

FACULTY
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SCHEDULE AND TIME COMMITMENT
The course will meet for a seminar on campus one evening per week 2nd block of Winter Semester, and will make local energy site visits for three to four days beginning April 25th. We will then depart for Europe about May 1. We will return from Europe about May 18th. Departure and return dates are somewhat flexible based on coordination requirements with company and energy sites that we will visit. All course assignments will be completed and submitted by May 23.

INTERESTED STUDENTS SHOULD CONTACT
International Study Programs
(801) 422-3686 | isp@byu.edu | kennedy.byu.edu/isp

PROGRAM ADJUSTMENTS
International Study Programs (ISP) reserves the right to cancel this program, revise its offerings, or make any adjustments to the preliminary cost. If it becomes necessary for ISP to cancel a program, all program payments made to BYU ISP will be refunded to the student’s BYU financial account. ISP is the only office authorized to cancel any of its programs.