

EUROPE

GLOBAL PERSPECTIVES ON ENERGY AND THE ENVIRONMENT

STUDY ABROAD SPRING 2023



Join us for an instructive experience as we tour countries in Europe that are globally leading the way in the adoption of renewable energy. We will visit Northern Italy, where we will tour a waste incineration plant that generates electricity, a solar PV cell fabrication facility, a geothermal power plant, and other companies focused on energy production and storage. We will visit the Alps to see up close the large glacial retreat that has occurred due to climate change. We will also visit Florence and experience the remarkable cultural sites that are there. In Spain, we will two large scale tour concentrating solar plants that generate electrical power and spend time in the culturally rich city of Seville. In Denmark where more than 50% of the country's electrical demand is generated from wind energy we will see wind turbine farms, climb to the nacelle of a wind turbine, and we will tour multiple turbine fabrication plants; including where the largest wind turbine blades in the world are designed and prototyped. 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 several local energy-related sites, including coal, hydroelectric, and natural gas powered plants. 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 2023. 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 1 May – 22 May 2023 (3-4 days locally and approximately two weeks in Europe).

HOUSING

We will visit Italy, Spain, Denmark, 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

Students will register in the following course during spring term 2023:

ME En 423 —Global Perspectives on Energy and the Environment (3 credit hours)

Students will also register for a 1 credit hour seminar course the second block of winter semester.

COST

\$6,200–6,600 (\$1,200 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).

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.

Does not include personal expenses and other meals.

TRAVEL

Flights which are covered by the program cost will be arranged by the program directors through a BYU Travel agent.

Students may not purchase their own flights. BYU Travel | 280 HRCB | (801) 422-6293 | travel@byu.edu

PREPARATION

Prerequisites:

ME 321 —Thermodynamics or equivalent with instructor approval

Students must meet all country- and program-specific COVID and health requirements for travel.

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/scholarships). Students majoring in Fulton College of Engineering will receive \$1200 in support from the Weidman Center.

APPLICATION PROCESS

Complete the online application at kennedy.byu.edu/isp-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. The first payment is due upon acceptance.

Deadline: 30 November 2022

FACULTY

Dan Maynes - maynes@byu.edu, (801) 422-3843

Brent Webb – webb@byu.edu, (801) 422-6543

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 May 1st. We will then depart for Europe about May 5th. We will return from Europe about May 22nd. 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 the end of May.

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.