





NNIREL

Meet the Educational Team

Jón Bernódusson is a marine engineer who studied at the University of Rostock and TU Berlin. He has three decades of professional experience in design, research and development. Among his current duties is leading a program at the Icelandic Maritime Administration to investigate the possibility of producing biofuel locally for the Icelandic fleet.

Maria Gudjonsdottir is a mechanical engineer with degrees from the University of Iceland and Technische Universität München in Germany. She has years of experience in the design of geothermal power plants (mainly for Reykjavik Energy on the Nesjavellir and Hellisheidi plants), and is now a researcher at Reykjavik.

Sigurður Þórðarson has almost 50 years of experience as a profressional engineer and educator, particularly in the field of hydropower development. He has degrees in biology and civil engineering from the University of Iceland and Denmarks Technical University, respectively. He has worked in a number of renewable energy projects in Iceland, both in the field of hydropower and geothermal energy.







Steinunn S. Jakobsdóttir graduated from University of Copenhagen in 1985 with a degree in Geophysics. Her prime interest has been within seismology and monitoring of hazardous events, such as earthquakes and volcanic eruptions. She has a long experience in running and developing a highly automated seismic system at the Icelandic Meteorological Office (see: http://vedur.is). Lately she has been involved in planning geothermal projects, but is now studying seismicity and crustal structure with emphasis on earthquake prediction research.



Ágúst Valfells has degrees in mechanical and nuclear engineering from the University of Iceland and the University of Michigan, respectively. His interests range from plasma physics to energy technology and policy. At the National Energy Authority of Iceland, he worked on promoting alternative fuels. At Reykjavík University he has helped build up graduate studies and research in sustainable energy.







The Capstone Project: THE DELIVERABLES

The Capstone Project inspires students to think outside the box and implement their newfound knowledge in order to create innovations of tomorrow. In fact, upon returning to home institutions, countless student projects have been presented as proposals and have even gained funding and other grants in order to further develop their capstone beyond their program.

As part of the GREEN Program, each student is required to choose and develop an independent project on topics related to renewable energy, public policy, business, ecology, environmental science and others.

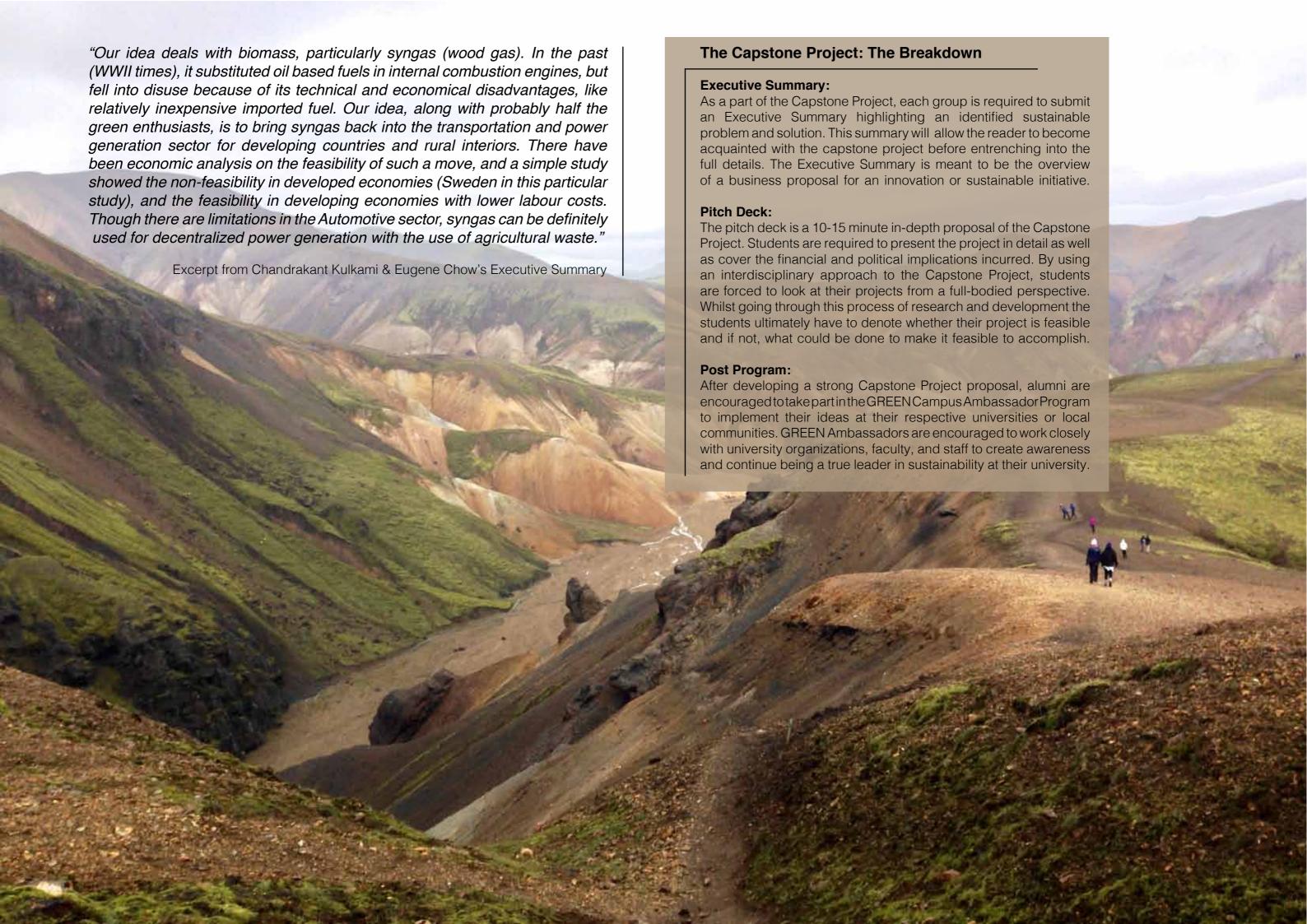
Students will work in groups to collaborate on this Capstone Project in an interdisciplinary manner. The project is assessed by Reykjavik University's faculty. The project must address a current issue that can be solved or improved through the application of renewable energy policy, technology, business, sustainable ecology, or environmental policy.

Final capstone projects are presnted in front of an audience including students, faculty, staff, and even industry professionals. Over the past year, several capstone projects have been developed into real, scalable businesses.

COURSE OUTCOMES

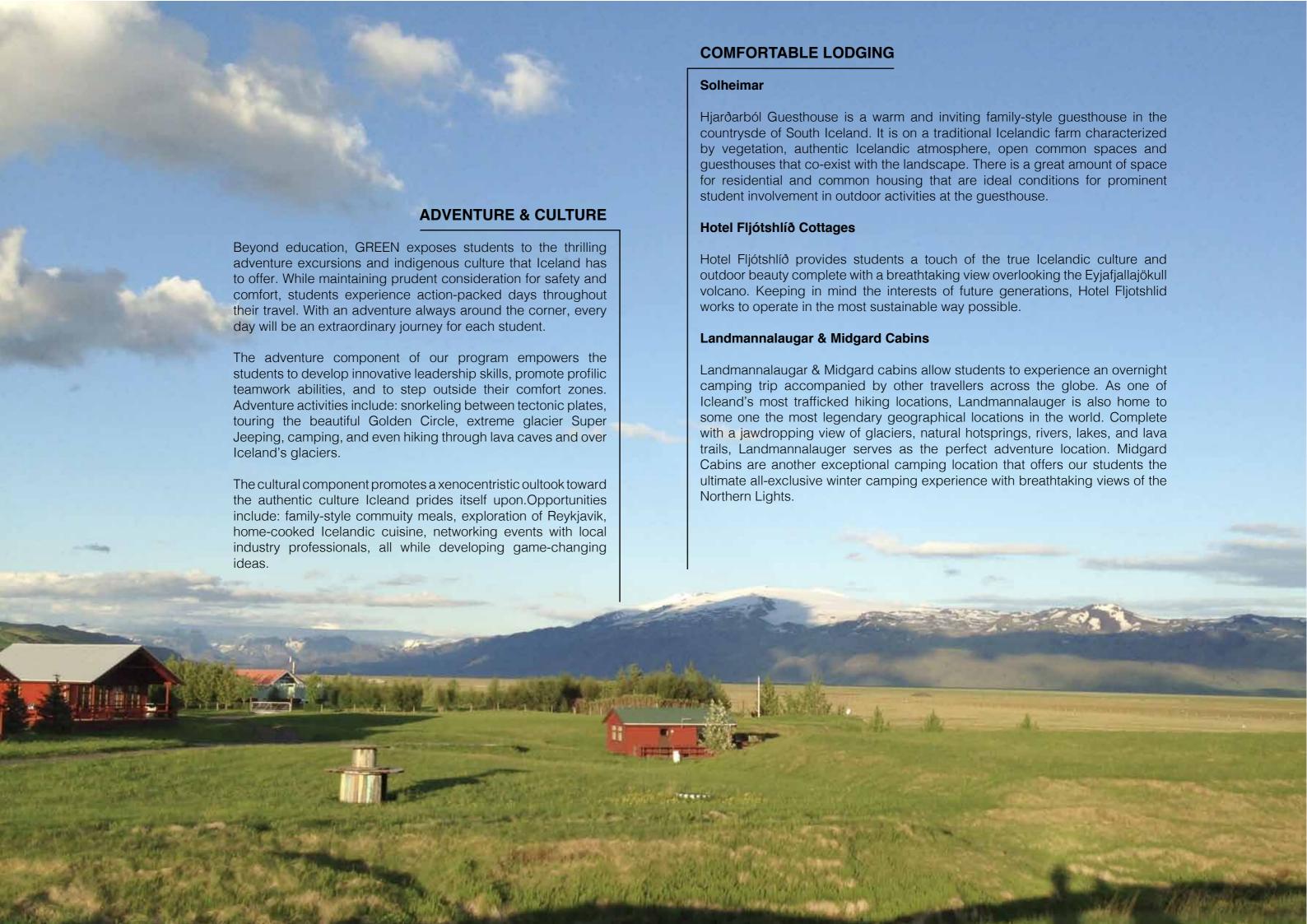
- Gain a comprehensive understanding and a personal familiarity of the science and technology behind renewable energy systems (hydropower, geothermal, solar, wind, biomass, and alternative fuels).
- Acquire a clear understanding of cost analyses and the environmental impact of renewable energy production facilities
- Learn to evaluate energy projects based on technical, economic, environmental, and political perspectives
- Observe Iceland's one-of-a-kind energy policies impacting the production and sale of electricity to surrounding nations
- Expand comprehension of concepts that are essential to commercial energy production, transmission, management, and legislation
- Develop leadership, teamwork, and networking skills through adventure excursions and exposure to professional industry relationships
- Excel within a network of like-minded students who aspire to work and innovate in the field of renewable energy and sustainability
- Gain a critical global perspective demanded by corporate recruiters today to prepare for future career opportunities













Personalized letters of recommendation from GREEN and Reykjavik University

GREEN letter of participation

Opportunity to earn 1.5 U.S. academic credits or 3 ECTS from Reykjavik University's School of Science and Engineering

Comprehensive understanding of 5 types of renewable energy

Exclusive eco-energy tours & sustainability projects

Cultural experience coupled with Icelandic language immersion

World-class adventure excursions

Exlusive membership into the GREEN Alumni Network

Access to top-level directors of renewable energy companies

Potential for mentorships, internships, and jobs

Elite Alumni access and membership to the new GREEN program launches & alumni events

WHERE ARE THEY NOW?

The GREEN Program is often cited by students as one of the best experiences of their lives. Aside from the superb renewable energy education, the program offers students additional long-term benefits as seen through our numerous alumni:

- Bernadette Brogden, PSU & Brenna Aliment, SUNY La Reserva Forest Foundation, CR
- John Fraga, RU & Seth Dagen, UFL La Reserva Forest Foundation & taught local children English
- Dan Tauriello, PSU United States Senate in Washington, DC
- Deja Chavarria, PSU In the process of starting her own Environment and Energy consulting firm
- Sam Saadeh, RU Depeartment of Defense Defense Logistics Agency Anatoliy Kholad,
 NJIT United States Patent Office
- Jared Manks, RU Analyst at Bank of America, working to be a Carbon Credit Analyst
- Adam Kowalski, Ohio State The Dow Chemical Company
- Long Hoang, Saint Louis University Cost Analyst, Electrical Components International
- Kishan Patel, Wayne State University Structural Engineer, Tucker Young Jackson Tull, Inc.
- Roy Anderson, RU Field Engineer, Bechtel Corporation
- Dan Conner, PSU & Elizabeth Krall, UFL Engineering Intern, General Electric
- Neha Gautum, RU Intern, U.S. Environmental Protection Agency, Region 2
- David Byrnes, RU United States Department of Agriculture Brazil
- Sam Dorbor, RU Solar Internship, B-Green Homes; Designing Solar Panels for LA Solar
- Kory McDonald, Carnegie Mellon Field Engineer at Schlumberger
- Brady Halligan & Joelle Zerillo, RU Global Renewable Energy Education Network
- Zach Hamber, San Diego State GroupEcoEnergia Certification Program (Wind Turbine Technician) – AeroEnergia Plant, CR



SAMPLE ITINERARY (Winter & Spring 8-Day)

Day 1: Welcome to Iceland!

- + Airport arrival and pickup
- + Welcome to the GREEN Program & Reykjavik Univeristy + Intro to Energy & Iceland's Energy Class
- + Capstone Project introductions
- + Hjardarbol Guesthouse check-in
- + Welcome dinner

Day 2

- + Geothermal class
- + HydroElectric class
- + Geothermal power plant visit
- + 1950's HydroElectric power plant tour
- + Lava caving adventure excursion
- + Capstone development

Day 3

- + Energy economics class
- + Capstone development
- + Community service project
- + Hot spring river hike & expedition + dinner in Reykjavik
- +Explore Reykjavik's, Iceland's capital

Day 4

- + Super Jeep excursion to Highlands + Golden Circle tour
- + Gullfoss and Geysir visits
- + Winter Highland adventures
- + Winter wilderness camping & Northern Lights

Day 5

- + Super Jeep Highlands departure
- + HydroElectric power plant expedition
- + Iceland's first wind turbine visit
- + Visit Iceland's newest hydroelectric power plant
- + Check in to Hotel Smaratun
- + Capstone development

Day 6

- + Biofuel class
- + Biofuel production site exploration
- + Eyjafjallajokull Volcano Documentary
- + Residential hydroelectric site visit
- + Waterfall lunch & museum
- + Capstone Project development

Day 7

- + Finalizing Capstone Projects
- + Home cooked lunch
- + Capstone Project presentations & assessments at Reykjavik University
- + Final night group activity
- + Farewell dinner

Day 8

+Iceland Farewell and final packing + Airport departures

SAMPLE ITINERARY (Summer 10-Day)

Day 1 Welcome to Iceland!

- + Arrival & check-in to Guesthouse
- + Welcome dinner: Meet the Team / Program overview

Day 2

- + Glacier snorkeling adventure between European & Icelandic tectonic plates
- + Introduction to energy & Capstone Projects
- + Icelandic pool-side barbeque dinner
- + Capstone development

Day 3

- + Geothermal & hydropower + hydrogran class
- + 1950's Hydroelectric power plant expedition
- + Geothermal power plant expedition / Exhibit tour / GeoTown lunch
- + Site expedition to leading hydrogen fuel production and capstone development

Day 4

- + Hike a famous lava cave
- + Adventure cuisine in Reykjavik
- + Capstone Project development

Day 5

- + Community impact project
- + Tour of Gullfoss and Geysir
- + Iceland's first wind plant production site
- + Super Jeep adventure excursion to Landmannalauger + campsite check-in, bonfire, & natural geothermal hot springs

Day 6

- + Geology lesson on volcanic grounds
- + Super Jeeps to hydropower plant expedition / Exhibition tour / Networking lunch with plant
- + Jacuzzi night!
- + Check-in new lodging site: Hotel Fljotshlid

Day 7

- + Residential Icelandic geology site, hydro, & Minc Farm under volcano
- + Super Jeep excursion to Thorsmork & canyon hiking / Capstone project

Day 8

- + Biomass class & biodiesel discussion
- + Explore Iceland's glaciers on an ice walk
- + Biodiesel site visit
- + Home base: Solheimar EcoVillage check-in / Final stage of Capstone development

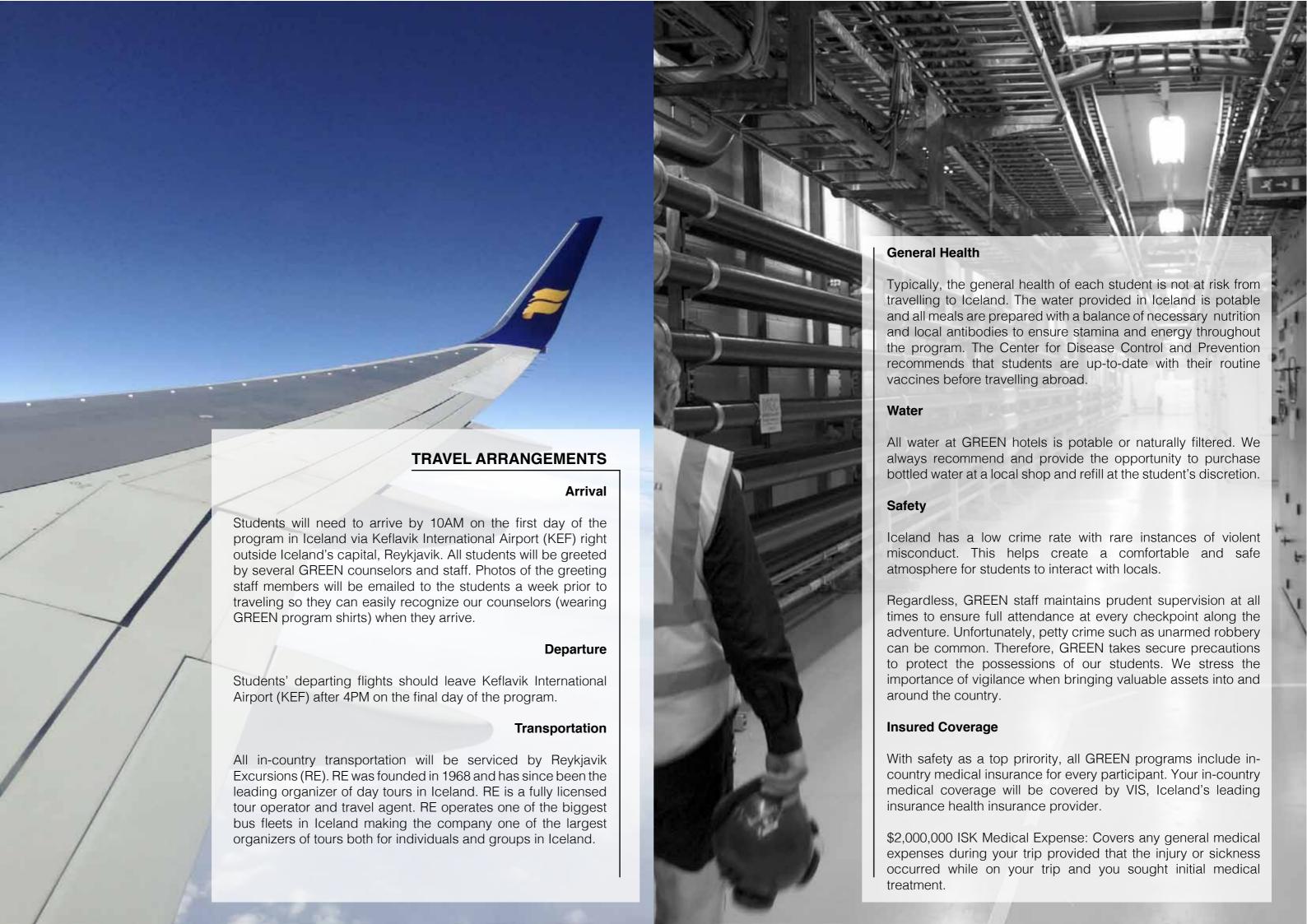
Day 9

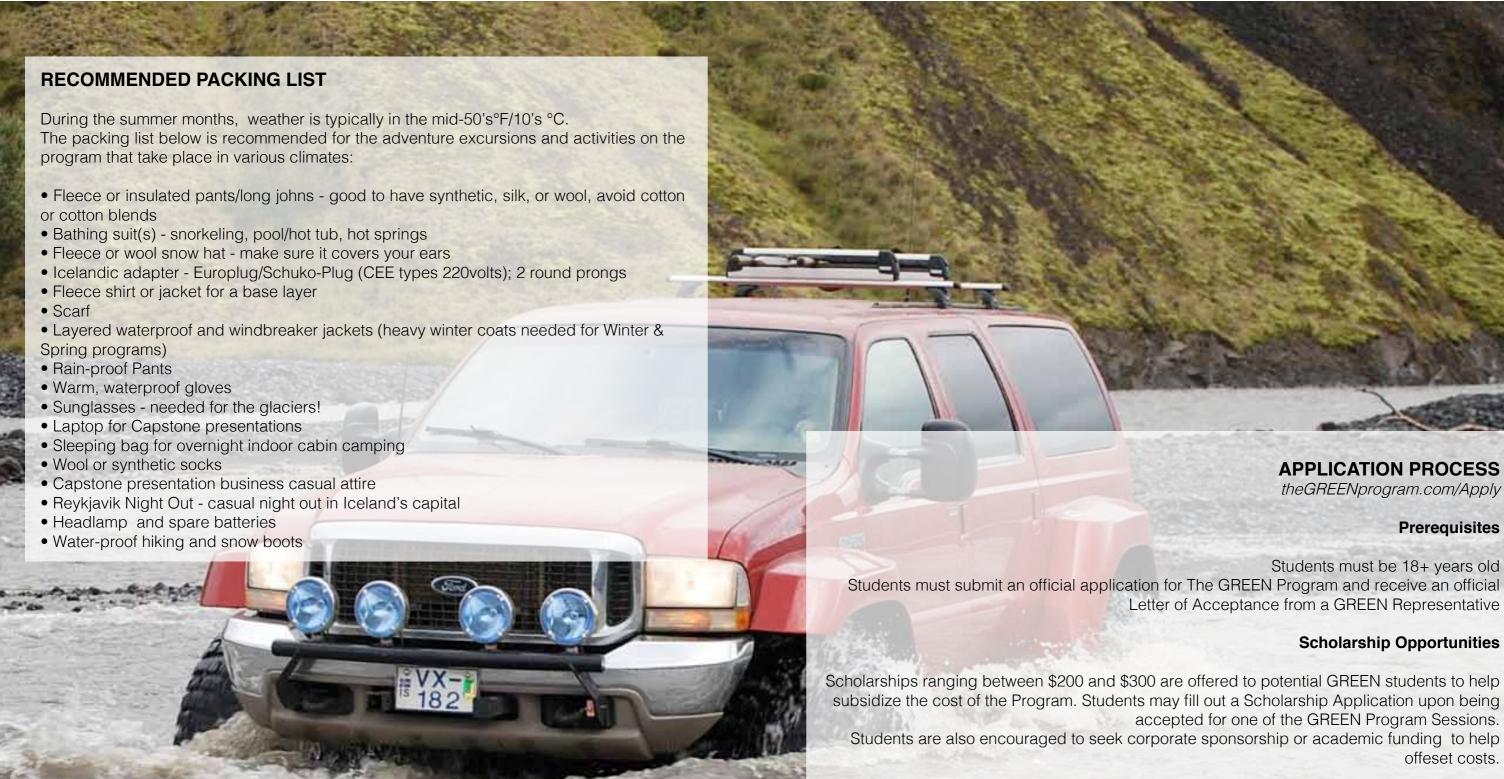
- + Final Capstone presentations to audience of peers, tour leaders, Reykjavik University faculty & industry professionals
- + Farewell dinner
- + Final group excursion

Day 10

+ EcoVillage farewell and final packing / Airport departures

Please Note: This is a sample itinerary. The itinerary is subject to change depending on weather and facility conditions. GREEN Tour Managers will always notify students if there is a change to the schedule. The Iceland Summer programs are 10 days and Winter & Spring programs are 8 days in length. Top Faculty and Industry Professionals from Reykjavik University's Iceland School of Energy host all educational classes and discussions.





Scholarship Opportunities

Scholarships ranging between \$200 and \$300 are offered to potential GREEN students to help subsidize the cost of the Program. Students may fill out a Scholarship Application upon being accepted for one of the GREEN Program Sessions.

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Application & Acceptance

The applications for the GREEN Program are accepted on a rolling basis. Applications are reviewed between 24-48 hours after submission, and spots on each program fill on a firstcome, first-serve basis. Spaces are limited since only 20 students are accepted to each program, thus we encourage early applications. If accepted, each student is paired with a GREEN Personal Representative to guide them through their registration process.

Contact Us

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