

Energy Security

Master of Sustainability (M.Ss.)

Two-year option

The M.Ss. in Energy Security is designed to inspire the next generation of leaders to forge robust and collaborative solutions to sustainability challenges. The mission is to empower a network of northern, Indigenous, remote, and career professionals through distance education and purpose-driven practical experience to lead sustainable community energy development.

What will I learn?

- 1 Demonstrate knowledge of renewable energy technology for energy transitions
- 2 Employ skills and crucial tools for managing energy projects
- 3 Identify policy and regulatory opportunities and barriers for advancing community renewable energy
- 4 Undertake community economic analyses to determine the business case for renewable energy projects
- 5 Lead best practices for holistic community energy project development

Sample courses

ENVS 839.3

Ways of Knowing through the Concept of Sustainability

ENVS 840.3

Renewable Energy and Energy Transitions

ENVS 842.3

Community Economic Analysis and Renewable Energy

ENVS 844.3

Community Vision and Engagement

Graduate Certificates in Sustainability

Not ready for the full program? Why not try a graduate certificate? These certificates can be taken as standalone programs or used to ladder into the Master of Sustainability.

Community Energy Planning and Finance

Energy Transitions

What can I do with a sustainability degree?

Community health Urban and environmental planning **Bioenergy**
 Food systems and food security **Renewable Energy** Consulting
Natural resources management Community Energy Planning
Policy analysis Sustainability education **Waste management**

Source: LinkedIn

"As a busy working professional in the utility space, the Masters of Sustainability - Energy Security program helps me live my passion of working with communities to address energy challenges. Energy security is one of the key components to socio-economic well-being. This program provides the knowledge, tools and network I will need to influence change in Saskatchewan and beyond. With amazing flexibility and an inclusive culture, it is easy to maintain balance and focus in every facet of my life."

Nadine, Alumna 2022

"This program has been a great step for my education. The course pace has been flexible and manageable and the faculty at the U of S are accommodating towards all their student's needs, they really strive to create an enjoyable educational experience. The content of the Energy Security Program has been engaging and rewarding throughout the remote learning experience. I would highly recommend to anyone interested in energy security, policy, and management to look into this program."

Rory, Alumnus 2022



PLAN YOUR ROUTE: ENERGY SECURITY

Explore your degree

BEGINNING STAGE

MSs Energy Security required courses

- ENVS 839.3 | **Ways of Knowing through the Concept of Sustainability**
- ENVS 844.3 | **Community Vision and Engagement**
- ENVS 841.3 | **Renewable and Clean Energy Systems**
- ENVS 840.3 | **Energy Systems and Renewable Systems**

Explore information about your major in the Course and Program Catalogue

Meet with the program director to learn about and plan your program direction

Plan to attend and participate in annual Orientation activities to learn more about SENS and your academic program

Get to know university services and tools for online learning

Grow local and global connections

Visit the USask Community Centre to make connections and build community

Get involved in your campus community through student groups, campus rec, and USask events

Get to know your learning cohort and SENS faculty

Join the SENS Student Association (SENSSA) and the Graduate Student Association (GSA)

Advance your career

Take a career assessment to learn more about your strengths, personality, interests, and values

Develop your LinkedIn profile to begin building your professional brand

Consider Professional Development opportunities offered through the GSA

Create an ePortfolio of your experiences and competencies

INTERMEDIATE STAGE

MSs Energy Security required courses

- ENVS 842.3 | **Community Economic Analysis and Renewable Energy**
- ENVS 843.3 | **Introduction to Community Energy Development and Project Finance**
- ENVS 845.3 | **Project Development: Governance, Law, and Regulations**
- ENVS 846.3 | **Negotiations and Consultations in Sustainable Development**

Check DegreeWorks to ensure your degree is on track

Build a professional, teams-for-life network

Build contacts and networks with utilities and industry

Build relations with Indigenous energy sector

Discover job opportunities, explore career options, and meet professionals at Career Services events and career fairs

Expand your professional network on LinkedIn

Get a better understanding of your career possibilities through career informational interviews

Conduct occupational research through Job Bank and LinkedIn

Attend career workshop activities

FINAL STAGE

Energy Security Capstone Courses

- ENVS 847.3 | **Data Collection for Community Energy Planning**
- ENVS 848.3 | **Creating a Community Energy Plan**

Complete all required course work

Apply to graduate

Join the USask Alumni and Friends community

Join professional and community associations related to your areas of interest

Become a member of ECO Canada

Look at opportunities with your partner connections

Attend public job talks

Familiarize yourself with different job boards and investigate avenues for career opportunities (LinkedIn, ECO Canada, Indeed, specific associations & government ministries/agencies, etc.)

SENS PROFESSIONAL ATTRIBUTES



LEADER



INTEGRATOR FOR INFLUENCING ORGANIZATIONAL CULTURE AND CHANGE



CRITICAL AND CHANGE-ORIENTED THINKER



COLLABORATOR, COMMUNICATOR, AND BRIDGE-BUILDER



REFLECTIVE PRACTITIONER AND ADAPTIVE MANAGER

Possible destinations...

People with a sustainability degree take their knowledge and skills into many different industries and occupations. Some of the career paths listed here require further education and training.



Why study sustainability?

Over 60 global community and industry leaders have contributed to the design of this unique educational and experiential program, focused on helping you develop marketable skills and empower you to launch a career in the field of renewable energy.

Employment demands are growing for community energy planners in First Nations, Métis, and Northern communities; project leaders and community coordinators in energy utilities and consulting firms; and policy and program officers in Indigenous, provincial, and federal governments.

Opportunities are growing for renewable energy project developers. This program is taught by industry professionals, so you can be confident that the delivered knowledge and skillset will set you up for success in leading a sustainable energy transition in Canada or around the world.



What are common career paths in sustainability?

Clean Energy Coordinator

Indigenous Engagement Manager

Sustainability Specialist

Community Energy Planner

Sustainability Consultant

Renewable Energy Consultant

Community Energy Champion

Sustainability Educator

Renewable Energy Developer

Emerging Energy Researcher

Sustainability Officer

Energy Land Use Planner

Sustainability Researcher

Source: LinkedIn



How much do professionals in sustainability careers earn across Canada?

Earning range

\$54,329 to \$90,238

Source: Census 2016 Job Bank, based on recent Master's graduates

"This program is timely and essential. PBCN is excited to share in the training of future leaders who will develop new capacity for energy autonomy in northern communities and enhance the quality of life for Canada's northern and Indigenous communities."

Former Chief Peter A. Beatty, Peter Ballantyne Cree Nation

"Students trained in energy security through this program will lead the energy transition in Indigenous communities across Canada."

*Jordan Peterson,
Former Deputy Grand Chief and Vice President Gwich'in Tribal Council*



UNIVERSITY OF SASKATCHEWAN
School of Environment
and Sustainability
SENS.USASK.CA

BE WHAT THE WORLD NEEDS



One of SENS's priorities is to advance the United Nations Sustainability Goals, which is reflected in our interdisciplinary courses and curriculum.