

MSc in Sustainable Energy Development **2025 Capstone Showcase**

Advancing Climate Action Through Scope 3 Emissions Evaluation and Reporting at the University of Calgary Masumi Vaghasiya

Advancing Solar Energy in Alberta: An Assessment of Municipal Solar-Friendly Policies and Implications for Leadership in Renewable Energy Adoption Yiming Hu

Assessing the Impact of Variations in Energy Rates and Carbon Price Projections on Low-Carbon Building System Designs in Canada

Vinuki Punara Kodithuwakku Arachchi

Assessing the Options for Sustainable Energy Solutions for the Okanese First Nation as a Means of Economic Empowerment Uchenna Udobata

Biochar Production in the Bow Valley Oluwafemi Fatoba

Cultural and Socioeconomic Impacts of Solar-Powered Refrigerators in the Peruvian Amazon Charity Kangume

Decarbonizing Alberta's Oil Sands: Integrating Electrothermal Energy Storage and Renewable Energy to Reduce Greenhouse Gas Emissions from Steam Production Victor Asiamah

Develop and Pilot a Sustainability Materiality Framework for the Calgary Stampede Braedon McNicol

Enabling Sustainable Refrigeration in the Peruvian Amazon: An Integrated Energy, Environmental, and Economic Assessment Olaseni Osho

The Energy Storage Investment Act Steven Wall

Evaluating Emerging Municipal Wastewater Treatment Technologies: Carbon Footprint, Energy Inputs, and Feasibility for Canada's Water Sector Koebillah Crichlow

Exploring Grid Reliability Risks in North America: A Multi-Region Data-Driven Assessment Chetan Saha

Feasibility of Electrothermal Energy Storage Adoption in Alberta's Steam-Intensive Industries Oluwaseyi Taiwo

Practical Solutions to Decarbonize Mining Operations in Western Canada: A Study of a Copper Mine in British Columbia Using Renewable Diesel Toluwanimi Ogundipe

A Review for a Revegetation Plan for the Casino Mine Project to Optimize Vegetation Carbon Sequestration Juste Zukauskaite



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Review of Carbon Capture and Storage Regulation in Canadian Provinces and Territories Adeniyi Adeoloye

Sustainable Cooling and Waste Heat Recovery Systems for Data Centres in Alberta Caroline Bartlett

A Sustainable Procurement Strategy for the University Of Calgary Nicholas Millichamp

Techno-Economic Analysis and Comparison of Battery and Hydrogen-Based Energy Storage Systems Abdul Wahab Abdul Kather

Techno-Economic Study on Aircraft Emissions Reduction at YYC Calgary International Airport Karen Garrido Vásquez Pita

Villages Where Healthy Longevity Happens: How to Integrate Extended Energy, Social and Environmental Health, and Longevity into Regenerative Village Developments Kristy Kwan