



UBC Master of Engineering Leadership Capstone Conference December 3, 2024

10:00 - 10:30 AM	Registration Refreshments Available							
	Clean Energy Engineering Capstone Presentations Room: C300 Session Chair: Ali Hyder				Clean Energy Engineering Capstone Presentations Room: C420 Session Chair: Jasmine Liu			
	Presenter	Project Title	Company	Mentor	Presenter	Project Title	Company	Mentor
10:30 - 11:00 AM	Zahra Zakeralhosseini	Solar Panel Installation with Battery Storage for Affordable Housing in the Interior Region	BC Housing	Fabian Navarro	Iker Bizcarguenaga	Developing Markets and Quantifying Benefits for Alternative Low Carbon Uses of HTL Products	Metro Vancouver	David Blair
11:00 – 11:30 AM	Joan Chen	Understanding the Embodied Carbon in BCR 6 Mechanical, Electrical, and Plumbing Systems	Campus + Community Planning, UBC SEEDS, UBC ReLOAD	Penny Martin and Josh Travers	Mathew Jones	Exploring Energy Sources to Supplement Island Health’s Low Carbon Resilience Roadmap	Island Health	Ryan Galloway and Pierre Iachetti
11:30 – 12:00 PM	June Jiang	Study of opportunities to reduce Embodied Carbon content in Building retrofit technologies	CBRE	Tamanna Garg	Maede Samani	A techno-economic study on waste-heat generated electricity – implementing ORC systems in existing compressor stations – Part 1: Technical Analysis	Solaris MCI	Terence Portugal and Ysabel Vidal
12:00 – 12:30 PM	Kaushal Upadhyaya	Medium Duty Electric Vehicle Adoption in BC	Fortis BC	Diana Aguilar and George Thompson	Dilnawaj Mufeed Ahmad	A techno-economic study on waste-heat generated electricity – implementing ORC systems in existing compressor stations – Part 2: Economic Analysis	Solaris MCI	Terence Portugal and Ysabel Vidal
12:30 - 1:30 PM	Lunch Provided							

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	Presenter	Project Title	Company	Mentor	Presenter	Project Title	Company	Mentor
1:30 - 2:00 PM	Rashmi Rajendran Wilfred Lo	EV DC Fast Charging Energy Management	BC Hydro	Alamgir Usmani and Rouh Shafaei	Xiaoqi Li	End-use applications of carbon solids produced via catalytic methane pyrolysis technology	Fortis BC	Jeffrey Vanderkley
2:00 - 2:30 PM	Ali Hyder	Techno-Economic Analysis – Off-grid & Hybrid EV Charging Infrastructure	Capital Regional District	Keegan Hardy	Haifeng Yang	The Role of Renewable Natural Gas at UBC	Campus + Community Planning, UBC	Maximilian Kniewasser
2:30 - 3:00 PM	Yirong Fan	Vehicle to Everything Pilot Project Design	Fortis BC	George Thompson	Harold Zhang	Methane Policy Evaluation from the United States to Europe and Implications on Global Trade of LNG	S&P Global Commodity Insights	Max Mucenic and Heather Jones
3:00 - 3:30 PM	Akshay Saini	Demand Response with Energy Storage System Integration for Efficient Grid Operations	Seaspan	Brijal Patel	Wentao Li Jasmine Liu	Estimating emissions from shipping and regasification in the LNG supply Chain	S&P Global Commodity Insights	Varun Narayan, Wanying Shi and Heather Jones
3:30 – 4:00 PM	Break Refreshments Available							
	Room: C300 Session Chair: Akshay Saini				Room: C420 Session Chair: Xiaoqi Li			
4:00 – 4:30 PM	Surya Venkatasubramanian	Development of the Offshore Wind Energy Strategic Plan	Ausenco	Patrick Burke	Fisayo Adeyemi	Harmonizing Impact Reporting in Clean-Tech Venture Capital	Darren Love	Evok Innovations
4:30 – 5:00 PM	Indra Kundu	Analyzing the Impact of Fossil-Free Investment Strategies on Climate Mitigation	Genus Capital Management	James Dick				

	Integrated Water Management Capstone Presentation Room: C420		High Performance Buildings Capstone Presentations Room: C440	
	Presenters	Project	Presenters	Project
5:00 – 5:30 PM	Amanda Pinto & Lilian Ferreira	Cost-Benefit Evaluation of the Alberta Street Blue Green System and Columbia Park Renewal Project. Sponsor: City of Vancouver	Yuansheng Yue Yuhu Ma Xin Li Edward Li	Scalable High-Performance: Affordable Housing for Northern BC and Beyond Sponsors: Gabriela Mercado and Grace Oh, BC Housing
			German Ortega Jorge Manano Guanyun Gao (GG) Rajadurai Anandan	Building for Tomorrow: Embodied Energy & Emissions for Affordable Housing Sponsors: Morgan McDonald, Ledcor
			Manpreet Kaur Soroush Aghabeigi Syma Trisha	Pawsitive Impact: A CarbonLite Animal Shelter Sponsors: Craig Edwards, City of Vancouver
			Fatemeh Johrari Jadidi Victor Cheung Taban Khodaei	Integrating Energy Conservation in Long-Term Care Facilities Sponsors: Kori Jones, Vancouver Coastal Health
5:30 – 6:00 PM	Keynote Speech Melina Scholefield, P. Eng. Executive Director, Metro Vancouver Zero Emissions Innovation Centre (ZEIC)			
6:00 – 7:30 PM	Poster Session & Reception Refreshments Provided			