All students in the M.Eng. in Clean Energy (CEEN) program are required to complete a 6-credit project (course CEEN 596). This is a running list of completed projects.

Updated: October 7, 2011

August, 2010

"The Talston Hydroelectic Expansion: Decision Model and Analysis" Nicholas Daniel

"Assessment of Waste Management and Landfill Gas Utilization Options for Mission Flats Landfill" Russel Haddow

"Financial Analysis of a Run-of-River Hydroelectric Project Using RetScreen" Jeffrey Oram

"Evaluating Peak Demand Management Alternatives for the University of British Columbia" Greg Rampley

[available at www.sustain.ubc.ca/seeds-library search "mazzi" in faculty field]

"Evaluation of Carbon Recycling Technologies" Jonathan Tan

"Information Technology in Smart Grid Systems and Electrical Energy Savings in Residential and Commercial Applications in BC" Zhen Ye.

December, 2010

"Electrical Energy Conservation Opportunities for Plug Loads and Lighting in UBC Office Buildings" Natalie Yao

[available at www.sustain.ubc.ca/seeds-library search "mazzi" in faculty field]

"Predicting Moisture Content and Bark Content of Woody Biomass using Visible Light Spectroscopy" Asa Parker

"Lifecycle Space Heating Analysis of a 60 Unit Multi-Residential Building" (based on coop work) Viran Uduman.

[available at www.sustain.ubc.ca/seeds-library search "mazzi" in faculty field]

"An Evaluation of the Beneficial Uses of Waste Heat" (confidential manufacturing operation). Brihas Sarathy

"Preliminary Research on Multi-unit Residential Heating System Performance in BC" Sheldon Boyce.

"Evaluation and Implementation of Practical Energy Savings Measures for UBC's Indoor and Outdoor Swimming Pools" Jeff Giffin
see www.publicaffairs.ubc.ca/2011/05/06/ubc-adopts-grad%E2%80%99s-energy-makeover-project-2

"Comparison of Hydronic Heating Systems in Multi-Residential Apartment Buildings" Alan Keelan
[available at www.sustain.ubc.ca/seeds-library search "mazzi" in faculty field]

"Analysis of Emerging Lighting Technologies for Exterior Applications" (based on coop work) Ian Lin

"VGH Clean Energy Plan" Gerard MacDonald

"The Transfer of Renewable Energy Technologies to Developing Countries: Analysis of the Maturity and Development of Countries' Renewable Energy Industries" Madeleine McPherson

April, 2011

"Study of energy efficiency upgrades for Vancouver General Hospital district energy plant" (based on co-op work). Bernard Chan

"Design of Solar Photovoltaic Test Site" (based on coop work). April, 2010. Hamid Kazmi

"Private and Social Costs of Micro-cogeneration" Marine Joos

"Power boiler ash re-feed feasibility study" (based on co-op work). Don Ma

"Selection guide for energy-efficient lumber drying kilns" Kara Serenius

"Analysis of indoor grow lighting for food production in extreme climates" (based on co-op work). Jamie Oliver

"Technical and Financial Evaluation of Different Energy Conservation Measures for the new UBC Pharmacy Building" (based on coop work) Kevin Leung

August, 2011

"Energy efficiency upgrade of a stock pump using variable frequency drive in a pulp mill" (based on co-op work). Chris Brennan

"Yield, Cost, Energy Balance and GHG Emission Estimation of Hydrogen Enhanced Production of Liquid Renewable Hydrocarbon Fuels" Don Gayton