

Calgary RETScreen® Training Workshop



Date Tuesday and Wednesday
February 23 & 24, 2010

Location 3608- 33rd St. NW
Calgary, Alberta
Alberta Innovates
Technology Futures
(formerly Alberta Research Council)

WADE Canada is offering the first of a series of RETScreen® version 4 Training Workshops to increase the implementation of efficient renewable energy systems in Alberta. This intermediate-level RETScreen® training session is a component of WADE Canada's DE certification program.

Experienced RETScreen® trainers will review the best practices for evaluating clean energy projects using RETScreen® version 4 for anyone wishing to reduce costs (both financial and time) associated with identifying and assessing potential energy projects. These costs, which arise at the pre-feasibility, feasibility, development, and engineering stages, can be substantial barriers to the deployment of Renewable-energy and Energy-efficient Technologies (RETs).

Companies, small businesses, institutions and individuals will be able to evaluate energy production, life-cycle costs and greenhouse gas emissions reduction for a clean energy solution to their energy costs.

Our training package includes two days of training, a DE installation tour and an evening keynote speaker & dinner session. The tour will be at the University of Calgary's Child Development Centre. This building was awarded Canada's 2007 Solar Building of the Year and is recognized by the Canada Green Building Council as the largest and highest scoring LEED Platinum building in Canada.

The tour will be hosted by the building's energy engineer, Dr. Jim Love of the University of Calgary. The solar technology distributor for this project, Sedmek Inc., will also be on hand to answer questions.

Michael Ross and Ken Hogg, experts in clean energy technologies, will be leading the training workshop. For their biographies please see 'Our Trainers' page.

Tuesday, February 23

- 9:00 Course overview
- 9:15 Introduction to prefeasibility analysis with RETScreen®
- 10:00 Brief introduction to wind energy projects
- 10:30 Demonstration of use of RETScreen® for a wind energy project
- 12:00 Lunch
- 1:00 Hands-on case study: wind energy project
- 2:30 Discussion of results from hands-on wind energy project case study

3:30 DE Installation Tour of the University of Calgary's Child Development Centre (CDC)

Wednesday, February 24

- 9:00 Financial analysis and GHG analysis with RETScreen®
- 10:00 Brief introduction to photovoltaic energy projects
- 10:20 Hands-on case study: photovoltaic energy project
- 11:45 Discussion of photovoltaic energy project results
- 12:00 Lunch
- 1:00 Brief introduction to combined heat and power projects
- 1:20 Hands-on case study: combined heat and power project
- 2:30 Discussion of combined heat and power project results
- 3:00 Brief introduction to industrial energy efficiency with RETScreen®
- 3:30 Hands on case study: industrial energy efficiency project
- 4:30 Discussion of industrial energy efficiency project results
- 4:45 Final questions

6:30 Evening Keynote Speaker & Dinner

Please note:

Dependent upon the participants' level of experience, interest and session progress, the tentative schedule will be subject to change in order to accommodate participants' needs. Technologies listed (i.e. wind) may change depending on participant response. An updated schedule will be sent prior to session.

Participants should come with RETScreen® version 4 installed on their laptops. To download the software free of charge, please [click here](#).

This is an intermediate-level workshop for energy professionals with an introductory knowledge of RETScreen® Version 4.

Registrants for this Intermediate-Level Session [click here](#) to complete the Participant Interest Form.

For those interested in attending future RETScreen sessions, help us to customise our sessions to match your needs by [clicking here](#) to complete the Participant Interest Form.

Please note available spaces are limited.

There are three levels of registration, please indicate which you option you would like. Breakfast and lunch will be provided on both days of training. Note fees are according to members and non-members of WADE Canada, and include GST.

	Member	Non-Member
Full training package: Training workshop, Feb. 23 & 24 and Evening Keynote Speaker event Feb. 24	\$595.00	\$725.00
Training workshop only, Feb 23 & 24	\$515.00	\$628.00
Evening Keynote Speaker event, Feb 24	\$130.00	\$180.00

To register for this workshop, please [click here](#).



Michael M. D. Ross has worked with renewable energy systems and other clean energy technologies for over 15 years. Michael has held notable research positions with CAN-MET Energy Technology Centre and the Advanced Energy Systems Group of the Department of Technical Physics and Mathematics at the Helsinki University of Technology, Finland's premier engineering university. Since 2001, in addition to consulting extensively for RETScreen International, Michael has provided his expertise for contracts in building energy modeling and energy efficiency, research on photovoltaic systems, wind energy resource assessment and site selection, assessment of icing losses and mitigation methods for wind turbines, quantification of greenhouse gas emissions associated with various energy technologies, and inspection of residential solar thermal systems. Michael has been the head of RER Renewable Energy Research since 2003, which provides services for federal, provincial, and municipal governments as well as utilities, wind developers, engineering consulting firms and private homeowners. Michael has a Bachelor of Applied Science degree in Systems Design Engineering from the University of Waterloo.



Ken Hogg is the President of Renewable Energy Solutions Inc., a consulting firm with international expertise in reducing energy consumption, increasing energy efficiency, generating energy from renewable sources, and evaluating projects which offer GHG reduction opportunities. Ken has worked for the Ontario Ministry of Environment for 20 years in various senior management positions involving air, water and soil pollution abatement, environmental design and approvals, and regulation of municipal and industrial pollution control facilities. Ken has lectured at the University of Calgary, instructing the Renewable Energy Technologies course since 2003. He is Chief Operating Officer of The Alberta Hydrogen Way based in Calgary and is on the Board of Directors of The Alberta Energy Efficiency Alliance.

Ken is a Civil Engineer from the University of Manitoba and holds a Master's degree in Environmental Engineering from the University of Toronto. He also holds a Green House Gas Validation/Verification Certificate awarded in 2005 by the Federal Government.



Dr. James Love is a Professor and Chair in Sustainable Building Technologies. Jim Love holds degrees in electrical engineering and architecture from the University of Calgary, and a DArch from the University of Michigan. He is a LEED certified professional engineer whose primary research focus is sustainable building design for cold climates, especially reduction of greenhouse gas emissions; this includes involvement in design and post-occupancy evaluation. As the energy engineer for the University of Calgary's Child Development Centre, a LEED platinum building, he was a co-recipient of the 2008 Summit Award for Environment and Sustainability presented by the Association of Professional Engineers, Geologists and Geophysicists of Alberta. Evaluation work has led to publication in a variety of scholarly journals, on topics from use of natural light to radiant thermal control, many co-authored with graduate students.