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To: To Whom It May Concern

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Re: University of Calgary – Energy Environment Experiential Learning (EEEL) Building

The University of Calgary's Energy Environment Experiential Learning (EEEL) building which received Leadership in Energy and Environmental Design (LEED) Platinum certification this year, is one of the most energy-efficient laboratory buildings in North America. Achieving this level of performance in a laboratory building - typically an energy-intensive building type - required innovation in design and construction.

EEEL is predicted to use 78 per cent less energy than a conventionally designed laboratory building. Natural light enters the building through triple-glazed windows and carefully designed interior surfaces reflect it deep into the building. Occupancy sensors and smart timing schedules control high-efficiency light fixtures when the sun isn't shining. Vertical green sunshades on the south facade move throughout the day to reduce glare and solar heat gain in the summer.

Cooling towers chill water at night and store it for use during the day. Concrete "Earth Tubes" run fresh air underground to the main lecture theatre to cool it in summer and warm it in winter. Low flow fixtures and use of captured rain water mixed with recycled process water for toilet flushing reduces potable water use by 64 per cent.

EEEL's classrooms, high quality labs and student spaces encourage experiential learning for students at the Schulich School of Engineering, the Faculty of Science and the Institute for Sustainable Energy, Environment and Economy.

EEEL was designed to be a living laboratory: classrooms, labs, even the mechanical and electrical equipment in the exposed ceilings are labeled and displayed. Labs and classrooms throughout are fully glazed. EEEL was built and designed to enable learning for occupants even by simply walking through it.

Yours truly,

Adam Stoker P.Eng.  
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