

**Project: Electra Domestic Water Floor Protection System - Residential Tower**

**Engineering Firm Name:**

E-Factor Engineering, Incorporated (November 2005), a Mechanical Engineering firm located in Vancouver BC.

**Background:** E-Factor, Incorporated, (E-Factor) was established in 2005 and is owned and operated out of Vancouver by Brian Sikorski P.Eng. CEM. Brian is the mechanical engineer of record for mechanical, plumbing, and fire protection system design and has over 35 years of engineering experience. E-Factor has completed hundreds of engineering design projects in buildings and facilities all over BC and in Canada. In the past five years we have specialized in HVAC boilers, chillers, heat recovery, plumbing and fire sprinkler systems design. We have worked in the downtown core on various projects involving domestic and hot water distribution in mixed commercial and high-rise residential buildings.

***Engineering Specialties***

- HVAC and Building Controls Design
- Fire Suppression, Plumbing, and Drainage Systems Design
- Energy Audit Consulting
- Building Re-Commissioning
- Computer Aided 3D Design
- Database Design and Data Analysis

E-Factor has worked on projects and investigations at the Electra building since 2011 and along with that experience and since the design of this project E-Factor has gained an in-depth knowledge of the building mechanical systems.

**Project Team:**

**Brian Sikorski, P.Eng., CEM (Certified Energy Manager), President**

Brian is a mechanical engineer with over 30 years experience in mechanical and building systems engineering with a focus on energy efficiency and mechanical design. Prior to 2005, Brian worked as a consulting engineer, and as a Corporate Energy Manager designing and managing projects in Industrial, health care, commercial, and multi-residential facilities.

**Giulia Ghelardini, Ing, Mechanical / Energy Engineer**

Giulia is an experienced Energy Engineer with an extensive knowledge in building control systems design, operation, and management in Florence Italy. Giulia has a Bachelor's degree in Industrial Engineering and a Master's degree in Energy Engineering. Giulia has skills in several design software applications and has been working on HVAC, plumbing, controls, and Fire Suppression design drawings and specifications for this project and other projects at E-Factor since July 2020.