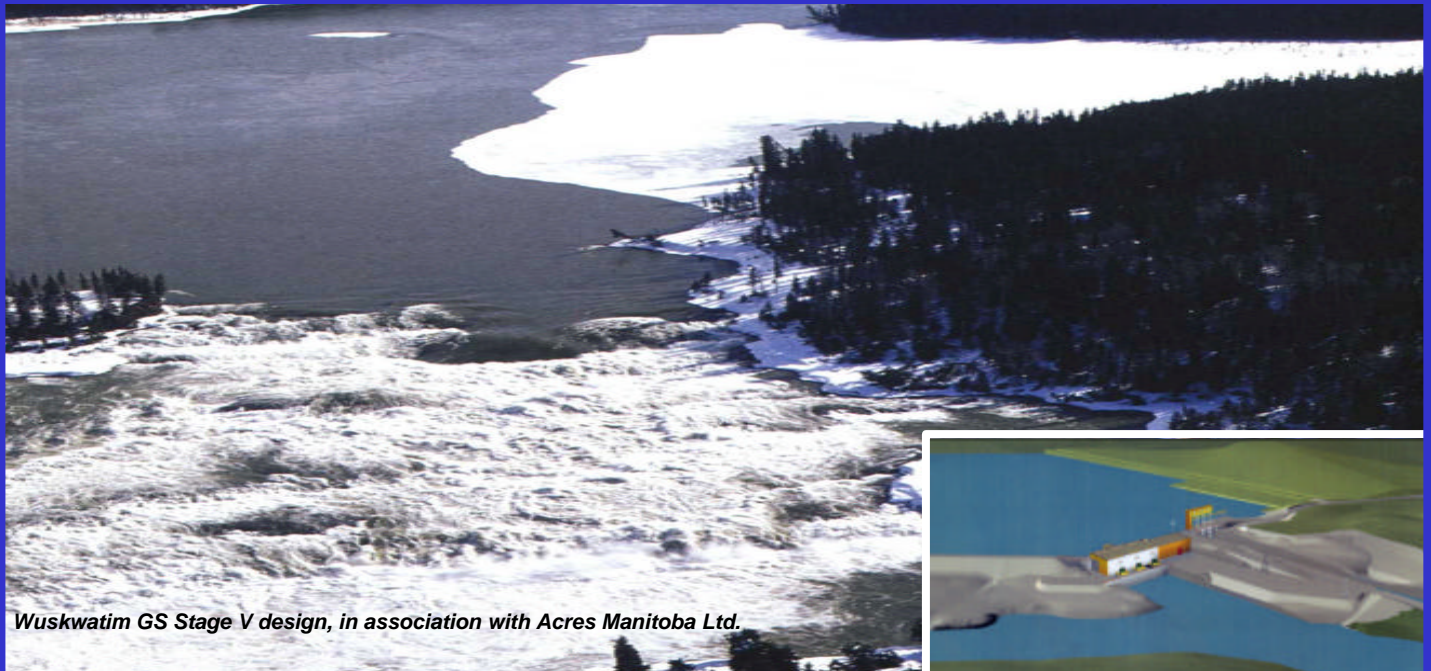


Hydroelectric Projects



Wuskwatim GS Stage V design, in association with Acres Manitoba Ltd.



KGS Group offers a complete range of services for the development of new hydroelectric projects or life extension and upgrading of existing facilities. Our capabilities and experience range from pre-feasibility through final design and construction in the areas of civil / structural, geotechnical, environmental, electrical, and mechanical design.

KGS Group has extensive recent experience in carrying out concept studies to identify the optimum alternative for new projects or upgrading older generating stations, including unit selection and performance testing, hydrologic simulation and energy production optimization, and optimization of plant layouts. KGS Group has also assisted utilities to determine the best project delivery options, such as conventional design / tender (DT), engineering / procurement / construction / management (EPCM), and design / build (DB).

Mechanical and electrical capabilities include equipment selection, specification and technical review, condition assessments and rehabilitation of hydraulic turbines, generators and auxiliary equipment. This includes re-running, generator rewind and unit replacement. KGS Group is also experienced in the specification and design of related facilities and systems including electrical substations and distribution systems, fiber optics, grounding systems, life safety, and building security systems. KGS Group also provides services for auxiliary systems, including process piping and equipment, HVAC, water and sewage systems, fire protection, oil containment, and fuel storage.