

Huge, daunting, remote:

Montrose Creek in western British Columbia: Remote, plagued by avalanches. Tough, low-maintenance Coanda intake screens were the perfect solution to bring run-of-river hydropower to the area. Norris Screen and Cook Legacy designed and fabricated the Coanda screens for Peter Kiewit Infrastructure Co.

Tough, easy-to-install, low-maintenance:

Coanda screens are designed to minimize maintenance in the field, which is crucial with the dangerous, remote location. The screens were reinforced in order to handle impact from larger debris overflowing the screen. Snow load was incorporated into design calculations for the screen sizing as well. Norris Screen's unique force and debris calculations and proprietary wire type each allowed for added strength. In addition to their strength, Coanda screens are also easy to install. The Montrose screens were designed with the site in mind. Special studs were integrated into the design to help anchor the screen assemblies into concrete weir walls at the site.

The application:

Plutonic Power Corporation and GE Energy Financial Services, the owners of the sites, commenced selling electricity from the project to BC Hydro in summer of 2010 as a part of an Electricity Purchase Agreement. Montrose exemplifies how British Columbia has served as a "living laboratory" of sorts in observing the challenges of developing green, Coanda-based technologies. The challenges and solutions to provide green power are being played out at Montrose. This tough, easy to install, low-maintenance screening technology can be used to simplify and implement run-of-river hydro anywhere. Thus far, Coanda systems are serving as robust sources of power for sites in British Columbia and throughout the world. As power pours out of this secluded creek in far western Canada, Coanda Effect screens are being examined as viable ways to meet growing power needs all over the globe.

