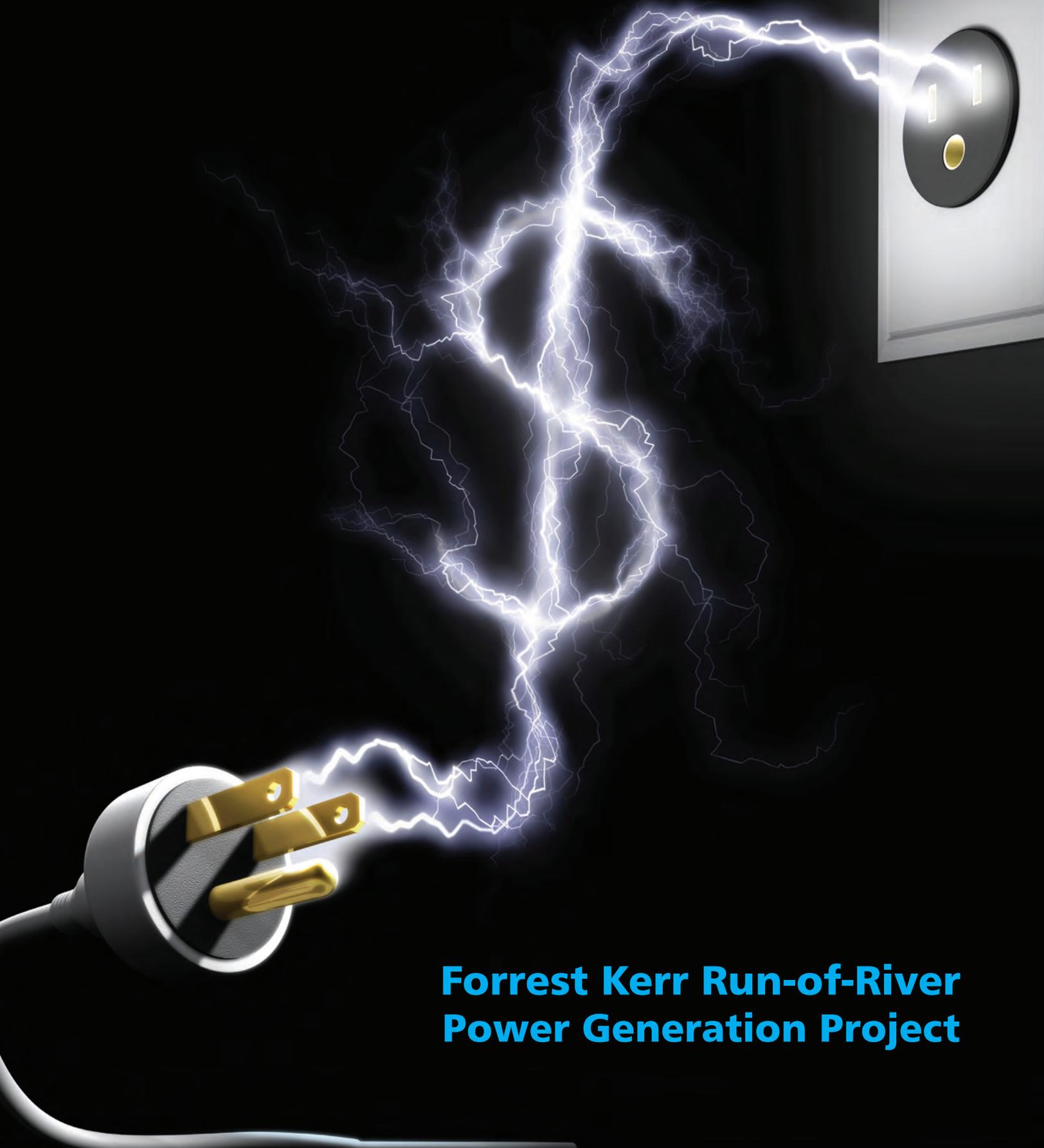


# *AltaGas*



**Forrest Kerr Run-of-River  
Power Generation Project**

## WATER INTAKE

A water intake station will be built where the Forrest Kerr Creek meets the Iskut River. The station will not stop the flow of water but will instead “borrow” some of the water and redirect it into an underground tunnel. To make sure enough water can get to the tunnel a rubber dam will sit atop the concrete structure. In the winter when the flow of the Iskut River slows down, the rubber dam will be inflated as pictured here. This will allow enough water to flow into the intake system filling the tunnel year round.



# FORREST KERR RUN-OF-RIVER POWER PROJECT

Galore Access Road

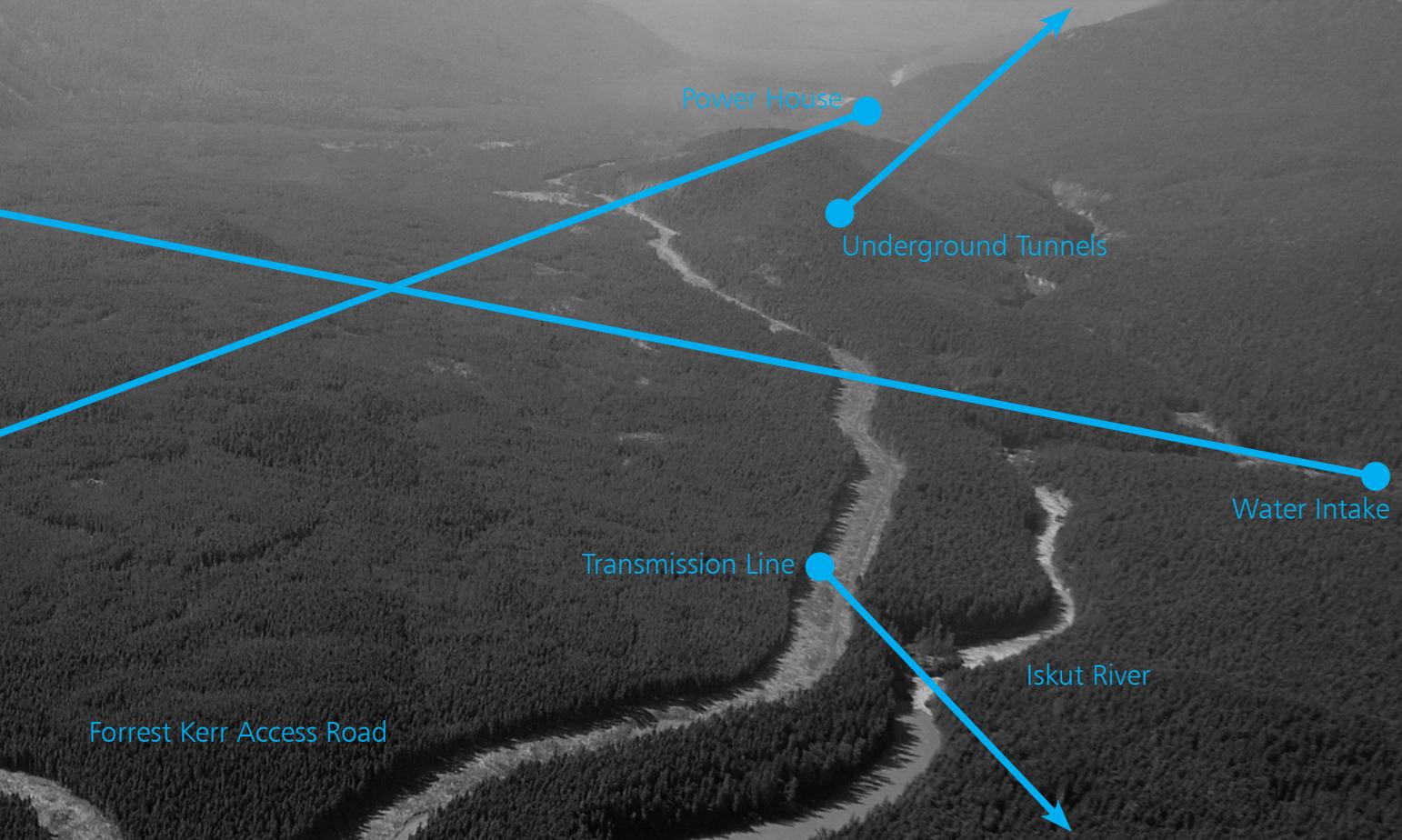
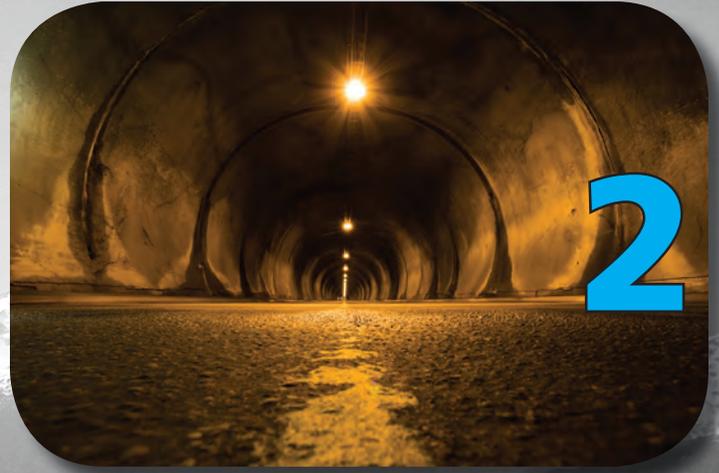
## POWER HOUSE

Water from the intake station and underground tunnel, 4 kilometers upstream on the Iskut River, will pass through a powerhouse like this one pictured here. Water in the main tunnel will split into 4 tunnels and each will have a turbine mounted within. The water will spin the turbine to create electricity. Once the water has passed a turbine it will flow back into the natural river channel. The powerhouse is where the energy from flowing water transforms into electrical energy.



## UNDERGROUND TUNNELS

Borrowed water from the Iskut River will fill a 4 kilometer underground tunnel similar to the one pictured to the left. The length of the water tunnel and the slope at which it moves downhill will create a water pressure and speed that will allow giant turbines to spin. Much of the construction time will be needed to build these tunnels alongside the Iskut River. Special concrete and steel and special tunneling machines will be needed to build these tunnels that will last more than 100 years.



Forrest Kerr Access Road

## TRANSMISSION LINE

Power generated in the power house will be delivered to the provincial electrical grid through a transmission line system. The transmission line will follow the Forrest Kerr access road to where it meets the Galore access road. It will follow the Galore access road to where it meets Highway 37 at Bob Quinn. The Forrest Kerr Power Project will produce 195 megawatts of electricity. The original transmission line called for a 138 KV transmission line but with the larger power production a 287 KV transmission line will be needed.



## NATURE'S ENDLESS CLEAN ENERGY SUPPLY

Electricity can be made from any river or stream that flows down a steep canyon or hillside. The amount of electricity produced is directly related to the amount of river flow. Forrest Kerr will produce 195 megawatts of electricity.

With run-of-river projects no flooding of large tracts of land is created. Moose and other animals are not affected. Best of all there is no pollution of any sort, water borrowed from a river flow is simply put back into the river. Unlike energy produced with wood, oil and gas, run-of-river projects produce no greenhouse gas whatsoever.

The Forrest Kerr Power Project will be built to last decades and will be generating revenue long into the future.



## BUILDING A TAHLTAN PARTNERSHIP

AltaGas recognizes that the project is located solely within the Tahltan First Nation traditional territory. AltaGas has developed a proactive working relationship with Tahltan Leadership and both parties are working collaboratively to develop a new Participation Agreement in respect to the Forrest Kerr Project.

This means opportunities exist for Tahltan to be part of the construction and revenue sharing of the project. The agreement will guide a partnership and relationship that will pay out benefits to generation after generation of Tahltan. Training for new types of jobs can also mean long term employment for the life of the project. Tahltan will become part of the new green economy in British Columbia.



## WHY BUILD THE FORREST KERR PROJECT?

Each year more and homes are being built in British Columbia. New families require electricity to power these homes. As BC's economy grows so too does its demand for clean, affordable electricity. To meet this demand BC Hydro has put a call out for development of independent power production.

AltaGas is just one of a number of independent companies that are building electricity production projects throughout British Columbia. If BC Hydro grants a supply contract for the Forrest Kerr project, it will pay for building the project.

It is much better for the province to generate and use electricity itself. If demand outperforms the supply of electricity, BC Hydro will have to import or "buy" electricity from elsewhere. This may raise the cost of your power bill.

The electricity produced by the Forrest Kerr Power Project will supply enough energy to light 95,000 new homes in BC. It will take 3-4 years to build the project in Tahltan Territory.

