

KELOWNA'S DARK FIBRE network

WORKING FOR YOU

KELOWNA RESIDENTS

More responsive customer service

- The City's fibre network was purposely over-built to accommodate future City needs and to be available for lease to businesses and institutions that have significant amounts of data to move.
- Kelowna is positioned well for innovation and tech sectors. In addition to the City's dark fibre offering, these sectors will be supported through the Innovation Centre in downtown Kelowna, which will house technology firms and start-ups together under one roof, supporting research, collaboration and informed dialogue to accelerate innovative solutions from concept to market.
- The City does not provide personal phone, television or Internet service on this fibre, but can provide a dedicated high-speed connection from one point to another for local businesses and institutions.
- The City of Kelowna has installed approximately 13 kilometres of fibre optic cable, connecting more than a dozen City facilities and multiple customers with unlimited telecommunications bandwidth service.

Forward thinking

- Dark fibre is a fibre optic strand that doesn't have data flowing through it. In other words, the City's excess fibre is "dark" because there are no fibre optic light signals being passed through it until the customer connects their electronic equipment to it, which allows them to send and receive data.
- The City's fibre optic cable is installed underground in rigid PVC conduits located in the City's right-of-way. There is an extensive amount of conduit installed in the ground, primarily through the foresight over the years of the City's Traffic Services department, who installed the conduit to feed traffic signals. Efforts are made to install communications conduit when roadwork is done to reduce the need to trench and install conduit at a later date.
- Future phases will see the expansion of the network to 33 kilometres, connecting strategic locations throughout the city.

Dark fibre benefits the community because it:

- > Provides the infrastructure required to support the next generation of internet, high definition television, interactive entertainment systems, etc.
- > Extends widespread connectivity to enable growth and development in all areas of the city
- > Reduces commuter traffic via local job creation and by supporting high speed connections to virtual workplaces
- > Supports education and research in the community via connections to BCNet and the Federal CANARIE advanced research and education networks
- > Minimizes demands on the City's rights-of-way for telecom infrastructure projects by providing low cost open access alternatives
- > Creates green, sustainable opportunities to attract high technology business to Kelowna and create well-paying employment options for citizens
- > Improves access to an extensive market-driven, competitive telecom service environment

#KELOWNADARKFIBRE

For more information, visit kelowna.ca/darkfibre



Enterprise
Kelowna



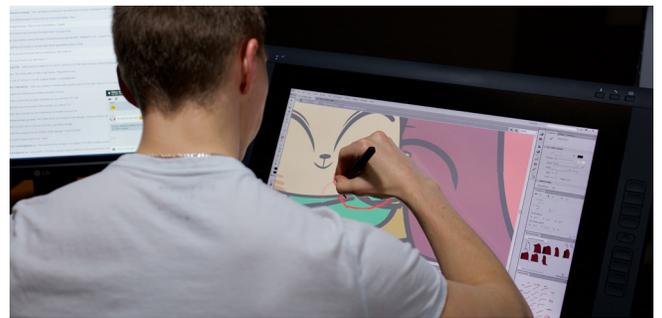
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City cost & time savings

- This fibre has proven to be extremely valuable by allowing the City to reduce annual communications costs from its operating budget, while significantly increasing the ability to move large amounts of data between facilities.
- The City's fibre optic cable network provides operational cost savings, faster data response time and innovative new ways of providing service.
- With more than a dozen City facilities hooked up to the dark fibre network, cost avoidance is estimated at more than \$200,000/year.
- By connecting the Library and Chapman Parkades, and the main Kelowna Library via dark fibre, the City is able to provide pay station, computer and phone connections to the parkades, high-speed access to the video surveillance systems, and prevents ongoing telecommunication costs at these locations.
- Moving data at unlimited speeds has also enabled innovative solutions to existing problems and created numerous operating efficiencies. With dark fibre the City will be able to do video conferencing, which will save staff time travelling between City facilities, fuel costs and wear and tear on City fleet vehicles. The dark fibre network also opens up opportunities to explore future interactive online applications for more responsive customer service.
- City facilities were experiencing issues associated with the number of users accessing data systems, and the volume of data being transferred between the facilities and the City Hall datacenter. Knowing data bandwidth requirements were going to surpass current limits and costs were bound to rise, the Information Services department installed fibre optic cable to these key facilities.



If you are a business or institution, dark fibre can provide benefits such as unlimited speeds and reduced costs.



Our company was interested in using this service ever since we were informed about it. It allows RackForce to bring world-class cloud services to local business at significantly lower costs for Internet and other IT services connected to the new Kelowna fibre network.

**- TIM DUFOUR, FORMER PRESIDENT
& CEO OF RACKFORCE**

For more information about the City's dark fibre network and hi-tech offering, please contact:

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