

2019

annual report





Our Whitehorse Rapids Generation Station – Archbould.com

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# who we are

Established in 1987, Yukon Energy is a publicly owned electrical utility that operates as a business, at arms-length from the Yukon government. We are the main generator and transmitter of electrical energy in Yukon. We work with our parent company, Yukon Development Corporation, to provide Yukoners with sustainable, cost-effective and reliable electricity.

There are over 21,000 electricity consumers in the territory. Yukon Energy directly serves over 2,200 of these customers, most of whom live in and around Dawson City, Mayo and Faro. Indirectly, we provide power to most other Yukon communities through ATCO Electric Yukon. ATCO buys wholesale power from us and sells it to retail customers in the territory.

Most of the electricity we produce is renewable, coming primarily from hydro resources generated at our Whitehorse, Aishihik and Mayo hydroelectric facilities. A small amount of liquefied natural gas (LNG) and diesel are also used to ensure reliable and cost-effective electricity is available when it's needed at peak times, during emergencies and when renewable sources of electricity are not available.

Our headquarters are located near the Whitehorse Rapids hydro plant in Whitehorse, with community offices in Mayo and Dawson City.

## Mission

To enable Yukon's prosperity with sustainable, cost-effective and reliable electricity

## Values

- Safety
- Accountability
- Continuous Improvement
- Teamwork
- Professionalism
- Good Corporate Citizenship

## Vision

To establish a sustainable legacy for Yukon's future





# 2019

## Board of Directors

- Lesley Cabott  
*Chair*
- Susan Craig
- John Jensen
- Gary Jones
- Simon Lapointe
- Mike Pemberton
- Wendy Shanks
- Rod Snow
- Jim Stephens

# message to yukoners

## In July 2019, we released our 5-year strategic plan with a bold vision to be a Canadian leader in sustainable energy by 2030.

In 10 years, we envision a robust and affordable energy system in Yukon that:

- is based on sustainable, renewable and low-carbon sources;
- abundantly supports Yukon's growth and prosperity;
- is reliable enough to keep the lights on in -45°C weather conditions, even if a major hydroelectric facility or system component fails; and
- exemplifies respectful, mutually beneficial and truly collaborative partnerships with First Nations.

Our work to begin drafting our 10-Year Renewable Electricity Plan in late 2019 is a clear demonstration of our commitment to fulfilling this strategy.

Our 10-Year Renewable Electricity Plan is a bold plan, developed in response to our Board of Directors' decision not to proceed with a new thermal generation facility in 2019 and Yukon government's draft *Our Clean Future* strategy. Our plan features innovation and three new renewable electricity projects that set us up to be, on average, 97% renewable by 2030.

1. Sourcing renewable electricity from the planned Atlin hydro expansion.
2. Building a new pumped storage facility at Moon Lake.
3. Expanding and upgrading the Southern Lakes transmission network.

Yukon Energy recognizes First Nations governments as energy proponents, partners and investors in Yukon's electricity system. First Nations governments, development corporations and Citizens will all have a key role in helping us refine and deliver our 10-Year Renewable Electricity Plan over the next decade.

A new Vice President of First Nation Relations role in our organization in 2020 will lead us on the path to proactively engage and develop mutually beneficial partnerships with First Nations governments as we begin to work on the projects identified in the renewable electricity plan next year.

Our 10-Year Renewable Electricity Plan doesn't come without its challenges. Building and maintaining such a high degree of renewable electricity generation – especially as Yukon's economy and communities continue to grow and Yukoners increasingly invest in electric vehicles and heating – will come at a cost.

More than \$500 million is needed to build the projects identified in the plan. With just over 21,000 electricity customers in Yukon, federal funding will be key to keeping the plan affordable for our customers and minimizing project risks. However, as provinces and territories across Canada also work to combat climate change, one can only imagine that there will be more projects than available funding across Canada.

Yukon Energy and Yukoners will need to help pay for the renewable energy future we all want. Electricity rates will need to increase over the next 10 years. By how much? It's too early to tell, but as the fruits of our labour showed this past year when we received funding for a new grid-scale battery, the Mayo to McQuesten Transmission Line Replacement project, and the Peak Smart program, we are committed to pursuing the government funding and partnerships needed to help minimize the impact of rate increases on Yukoners.

This is an exciting and challenging time in Yukon Energy's history. Our Board of Directors and staff look forward to working together to capitalize on the opportunities in front of us and to report back to you on our continued progress in future reports.



**Lesley Cabott**

Chair, Yukon Energy Corporation Board of Directors

# president's welcome

Being responsible for keeping the lights on in Yukon is a sincere privilege. It not only means a great deal to me, but also to the team of dedicated individuals that I'm fortunate to lead.

Yukon Energy generates most of our electricity from hydroelectric facilities, making our energy production among the greenest in the world. During emergencies or low water periods, we generate additional electricity through our LNG and diesel plants. That's how we do it.

We have a vision of being a Canadian leader in sustainable energy by 2030. To achieve it, we make it our mission each day to provide sustainable, cost-effective and reliable electricity, while also working to plan, permit and build the renewable electricity resources that are needed in the future. That's why we do it.

The why behind our work sheds light on our activities over the past year and provides perspective on why we plan, propose, build, operate, maintain and upgrade the things we do.

I'd like to share three examples with you of how that played out in 2019.

## 1. Sustainable

Being sustainable means having a robust and affordable electricity system made up of the right mix of renewable and low-carbon sources of electricity. It means having an electricity system reliable enough to keep the lights on in -45°C weather conditions during the winter, even if a major hydroelectric facility or system component fails. It means having enough electricity generation resources available to support Yukon's growth and prosperity. It also means building, operating and maintaining those assets in a way that exemplifies respectful, mutually beneficial and truly collaborative partnerships with Yukon First Nations, other governments, communities and industry.

## 2. Cost-effective

Operating as we do on an isolated and far-flung grid in a lightly populated region subject to weather extremes, means costs could easily become prohibitive for our customers. One of our most important jobs on behalf of Yukoners is to secure outside funding. In 2019, we secured nearly \$40 million from the federal government for three significant projects: replacing and upgrading the ailing, 65-year old Mayo to McQuesten transmission line, building an 8 MW grid-scale storage battery and piloting the Peak Smart demand-side management program. While our electricity rates increased in 2019, what Yukoners pay for power remains the lowest in Canada's North.

### 3. Reliable

Running a hydro operation means being at the mercy of available water. Over the past two winters, low snowpack resulted in lower than normal inflows at all three of our hydroelectric facilities. Regardless of what Mother Nature delivered, our mission to provide reliable electricity to Yukoners did not change. This past year, we used more LNG to generate electricity to make up for the shortfall in hydro generation and rented diesel generators to meet growing demands for power during winter months. In the coming years, as our grid-scale battery comes on line and we continue to build and integrate more sources of renewable electricity on the grid, we will have other, greener options to serve our customers and keep the lights on.

This work is complex and challenging. But the satisfaction of fulfilling our vision and mission is what gets us up and out the door every morning.

That's the power of Yukon.



**Andrew Hall**

President and CEO, Yukon Energy Corporation

124

megawatts

generating capacity  
in the summer

peak  
demand <sup>1</sup>

106

megawatts

generating  
capacity  
in the winter <sup>2</sup>

0

reportable motor vehicle  
incidents <sup>3</sup>

<sup>1</sup> recorded on January 8, 2019

<sup>2</sup> caused by a lower supply of hydro resources during winter months

<sup>3</sup> with damage exceeding \$5,000 as defined by the Canadian Electricity Association

# 2019 at a glance

90

megawatts

440

gigawatt hours

electricity  
supplied

84

per cent

renewable  
generation<sup>4</sup>

0

environmental  
spills<sup>5</sup>

<sup>4</sup> due to low water levels in spring 2019

<sup>5</sup> as defined by *Yukon Spills Regulations*

# 2019–2024 strategic priorities and performance

## STRATEGIC PRIORITY

## PERFORMANCE

Generate reliable and renewable energy

Historically, more than 90% of the electricity we generate comes from renewable resources, primarily hydro. This year we were only able to generate 84% renewable electricity due to low water levels and inflows in the Whitehorse, Mayo and Aishihik reservoirs. However, we were able to continue to provide reliable power in the winter months by renting diesel generators.

We also began work on our draft 10-Year Renewable Electricity Plan that will set us up to be a Canadian leader in sustainable energy by 2030. The projects and partnerships outlined in the plan will help us to generate more than 97% renewable electricity, on average, each year.

Secure long-term sustainable funding

We worked with our shareholder, Yukon Development Corporation, to secure funding for projects outlined in our 5-year capital project plan.

We also secured nearly \$40 million in federal funding for the Mayo to McQuesten Transmission Line Replacement project, Peak Smart program and Grid-Scale Battery Storage project.

Develop mutually beneficial First Nations partnerships

We recognize First Nations as energy proponents, partners and investors. First Nations participation in assessments, permitting and approval stages is critical to the success of any new project.

This year, we signed a Project Agreement with the First Nation of Na-Cho Nyäk Dun for the Mayo to McQuesten Transmission Line Replacement project. This agreement creates First Nations procurement opportunities and provides legacy benefits to the First Nation.

## STRATEGIC PRIORITY

## PERFORMANCE

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Achieve excellence in employee engagement

Results from an employee survey conducted in late 2019 showed an increase in performance in almost all areas of the survey. The greatest overall performance increases were in the information sharing, information to make decisions, and trusting your supervisor categories.

In 2019, we also established an Extended Leadership Team that continues to provide input and support of corporate initiatives today.

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Streamline and clarify governance

In 2019, a Protocol Agreement was signed between the Chair of Yukon Energy Corporation's Board of Directors and the Chair of Yukon Development Corporation's Board of Directors. The Agreement describes Yukon Energy's accountabilities in relation to Yukon Development Corporation's performance expectations for the utility. It outlines both corporations' agreement to each of their respective roles and responsibilities, and provides a framework that encourages strong corporate governance of Yukon Energy.

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Provide outstanding, reliable customer value

This year, we continued to work on our *My Account* online customer portal. The new system will provide customers with the ability to view current and past bill statements, compare monthly electricity usage, pay electricity bills and request electrical services online. The online system will be released in late 2020.

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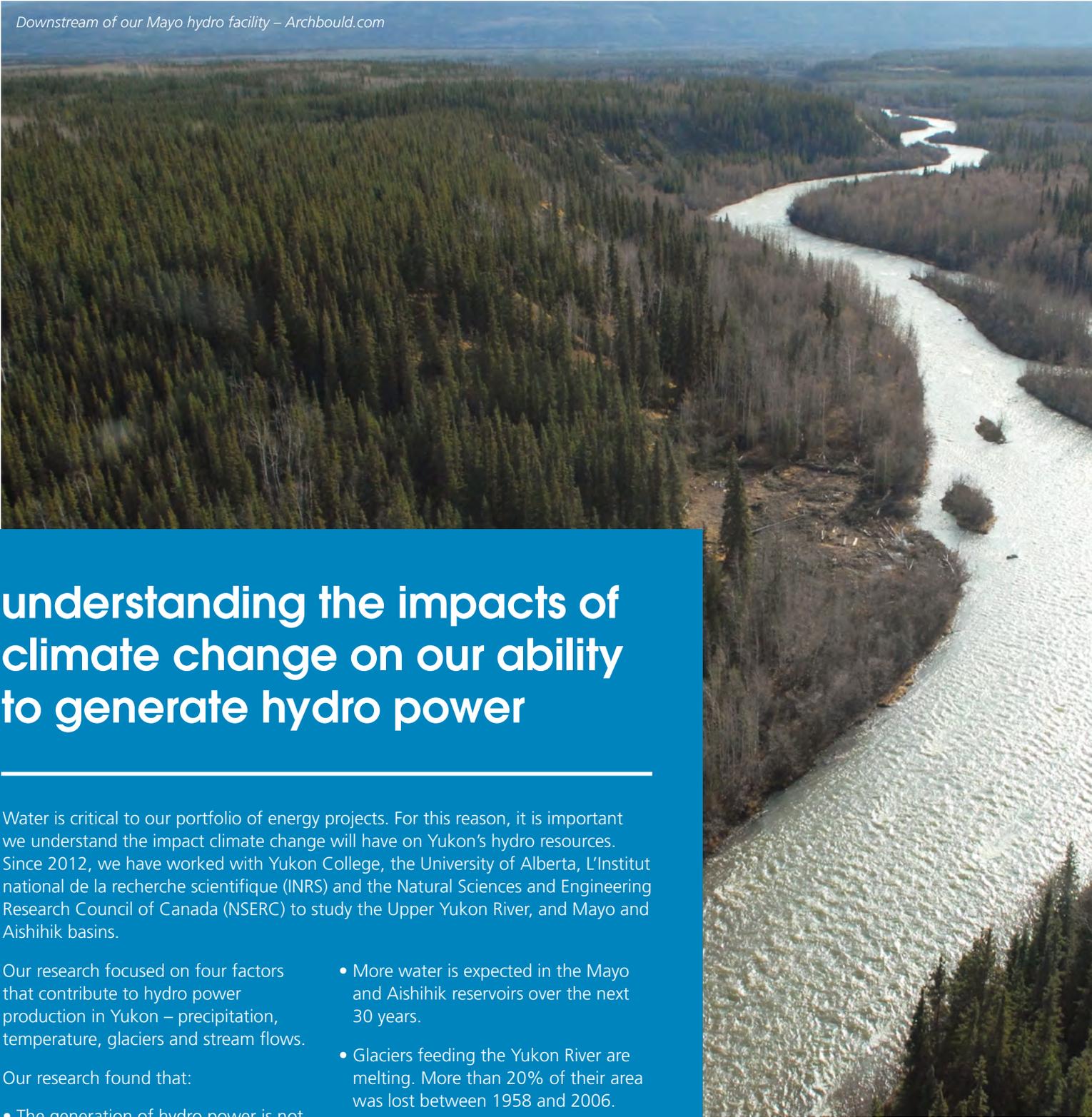
# 2019 corporate goals and performance

CORPORATE GOAL	PERFORMANCE
Achieve an All Injury Frequency Rate of 1.0 or less	In 2019, we had an All Injury Frequency Rate of 7.6, the result of 5 Medical Aids and 1 Lost Time Injury within the organization. Employee, contractor and public safety remain a key area of focus for us in 2020.
Achieve a Reportable Motor Vehicle Incident Rate of 0	Achieved.
Achieve 10 or less controllable outages	We had 13 controllable outages in 2019, compared to 12 in 2018.
Achieve a Return on Equity (ROE) of 5.58%	The 2019 ROE was 3.52%, down from 6.54% in 2018.
Complete key employee development and engagement initiatives	In 2019, we established an Extended Leadership Team that continues to provide input and support of corporate initiatives today.
Develop a plan to advance a new mid-scale hydro project	We completed an updated scan of potential mid-scale hydro sites across Yukon as part of the work on our 10-Year Renewable Electricity Plan. We have identified the Atlin Expansion project as a project of focus in the plan.
Develop a plan for temporary thermal rental (2019–2022)	Achieved. A contract to secure the temporary thermal rentals needed to meet peak demands for power between 2019 and 2022 was executed.
Complete preliminary engineering and select a site for the new thermal plant	A fulsome public engagement process was executed. Based on public input, Yukon Energy made the decision not to proceed with a new green-field thermal plant.
Complete key projects for the Eagle Mine grid connection	Achieved. The Eagle Mine was connected to the Yukon grid on May 10, 2019.
Complete Year 2 deliverables for the Asset Management project	More than 75% of the work planned for Year 2 was completed. A Managed System Governance Model was added to the scope of the project and also developed. This resulted in a shift of the remaining Year 2 project deliverables to Year 3.
Complete the Yukon Water Board hearing for the Aishihik hydro re-licensing project	The decision bodies (Government of Yukon Department of Energy, Mines and Resources, and the Department of Fisheries and Oceans Canada) issued a joint decision document on the 3-year licence renewal YESAA project proposal on October 21, 2019. The Yukon Water Board approved the 3-year water use licence renewal on February 19, 2020.



0

reportable motor vehicle incidents



## understanding the impacts of climate change on our ability to generate hydro power

Water is critical to our portfolio of energy projects. For this reason, it is important we understand the impact climate change will have on Yukon's hydro resources. Since 2012, we have worked with Yukon College, the University of Alberta, L'Institut national de la recherche scientifique (INRS) and the Natural Sciences and Engineering Research Council of Canada (NSERC) to study the Upper Yukon River, and Mayo and Aishihik basins.

Our research focused on four factors that contribute to hydro power production in Yukon – precipitation, temperature, glaciers and stream flows.

Our research found that:

- The generation of hydro power is not expected to be negatively impacted by climate change.
- It has and will continue to get warmer and wetter in Yukon.
- We can expect more variability in precipitation in the future, but wet years will be wetter and dry years will be wetter than today's averages.
- More water is expected in the Mayo and Aishihik reservoirs over the next 30 years.
- Glaciers feeding the Yukon River are melting. More than 20% of their area was lost between 1958 and 2006.
- Glacier melt and wastage makes up 23% of inflows in the Upper Yukon River. Glacier melt is causing more inflows in the Yukon River right now.
- More research is needed to understand the implications of climate change on the Upper Yukon River system over the next 30 to 80 years.



# health, safety and environment

## Health and Safety

We believe our employees to be our greatest asset. That's why their health and safety is part of every decision we make and every action we take.

- 93% of Yukon Energy employees attended monthly safety meetings.
- We had zero reportable motor vehicle incidents in 2019.
- 407 employees from 93 contract companies completed our safety orientation.
- 50% of Yukon Energy staff utilized the company's wellness subsidy.

## Sustainability and Environment

Yukoners have significant concerns about climate change and its impacts on the place they call home. We share those concerns and are actively working to build a sustainable energy future in Yukon.

- We raised and released about 133,000 chinook salmon from our Whitehorse Rapids Fish Hatchery.
- About 23,000 imported Lyndon rainbow trout, 1,100 Kathleen rainbow trout, 4,600 imported Kamloops rainbow trout, 33,000 Icy Waters Arctic char and 41,000 kokanee salmon were raised at the Whitehorse Rapids Fish Hatchery.
- We continued our support of the Celebration of Swans Festival.
- We completed work with the L'Institut national de la recherche scientifique (INRS), the Natural Science and Engineering Research Council of Canada (NSERC) and Yukon College to monitor and assess the long-term effects of climate change in the Mayo and Aishihik reservoirs. Research on the Whitehorse reservoir continues in 2020.

# customers, community and partnerships

## Customers

We are committed to providing sustainable, reliable and cost-effective electricity service to our customers. We also believe in providing Yukoners with the information and tools they need to better manage their electricity use and to conserve energy, when and where possible.

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### RELIABILITY OF SERVICE

- Low snowpack in Yukon over the last two winters has meant that less water has been available to generate renewable electricity. As a result, we've had to run our LNG and diesel generators to fill the gap that could not be met by hydro power.
- The demand for electricity is growing in Yukon. Under certain emergency conditions, the demand for power exceeds what's available. Because of this, we continued to rent portable diesel generators this winter to protect Yukoners from prolonged outages.

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### OUTAGES

Total Number of System Outages in 2019: 79

Top Causes of System Outages in 2019:

- Planned outages
- Adverse weather
- External interference (e.g., third-party contact, wildlife)

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### CUSTOMER RATES

Yukoners need sustainable, reliable and cost-effective electricity today and into the future. To ensure we have it, Yukon Energy invests millions of dollars to build, operate and maintain our electricity supply and transmission assets.

On November 24, 2019, our regulator, the Yukon Utilities Board, approved a 4.7% permanent increase to electricity bills, effective December 1, 2019. The decision followed a 29-month review of our 2017/2018 General Rate Application and a 4.6% interim increase to bills on September 1, 2017. An additional temporary rate rider of 7.1% was also approved to allow us to collect revenue from 2017, 2018 and 11 months of 2019 that we couldn't otherwise collect during the regulatory process.

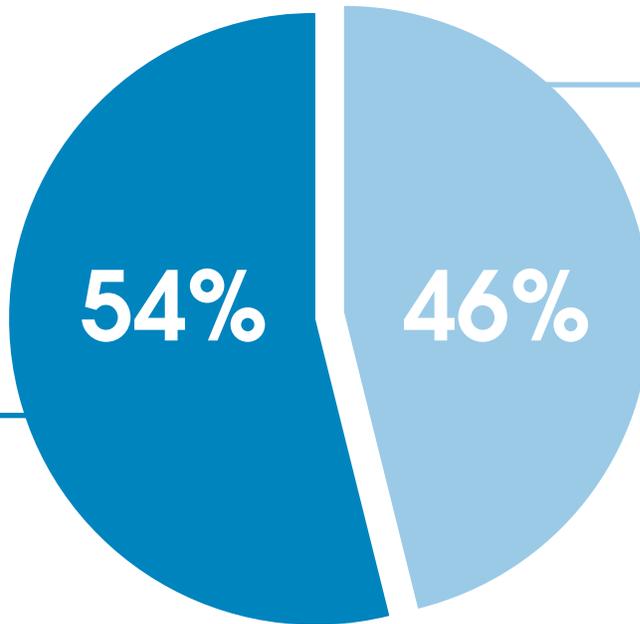
### Why the increase was needed

Yukon's continuing demand for sustainable and reliable electricity comes at a cost. The increase to electricity bills was needed to pay for:

- past costs to upgrade aging infrastructure and build new projects; and
- inflation costs related to running our business, operations and maintenance.

## Drivers for the increased costs

Past costs to upgrade aging infrastructure and build new projects, e.g., upgrades to the Takhini substation, building the Whitehorse LNG facility (units 1 and 2) and major repairs to the elevator shaft at our Aishihik hydro facility.



Inflation costs to run our business, operations and maintenance, e.g., increasing costs for labour, materials and contractors.

Even with the rate increase, Yukon's residential electricity bills are still the lowest in the North and competitive with other jurisdictions in Canada and the United States.

## ENERGY CONSERVATION

### Peak Smart

- This year, in partnership with ATCO Electric Yukon, Yukon Development Corporation and Natural Resources Canada, we launched a two-year pilot project called Peak Smart.
- Peak Smart aims to shift peak demands for power by using Internet-connected devices on electric hot water tanks and baseboard heaters to shift the times these heaters are used away from peak times of electricity consumption which typically happen during the breakfast and dinner hours.
- By shifting peak demands for power, we hope to be able to use less diesel to generate electricity during peak times.

## OTHER MILESTONES

- We connected Victoria Gold's Eagle Gold Project to the Yukon grid on May 10, 2019.
- By connecting Eagle Gold to the Yukon grid, we are supplying the mine with renewable sources of electricity and reducing its carbon footprint.
- Without access to renewable electricity, the mine would have to rely on thermal resources to generate power.

# hydro power – what happens when there's not enough?

Running a hydro operation means we need a steady and reliable supply of water. We had enough in 2018 to generate 92% of the electricity needed in Yukon. Liquefied natural gas and diesel generators made up the other 8%.

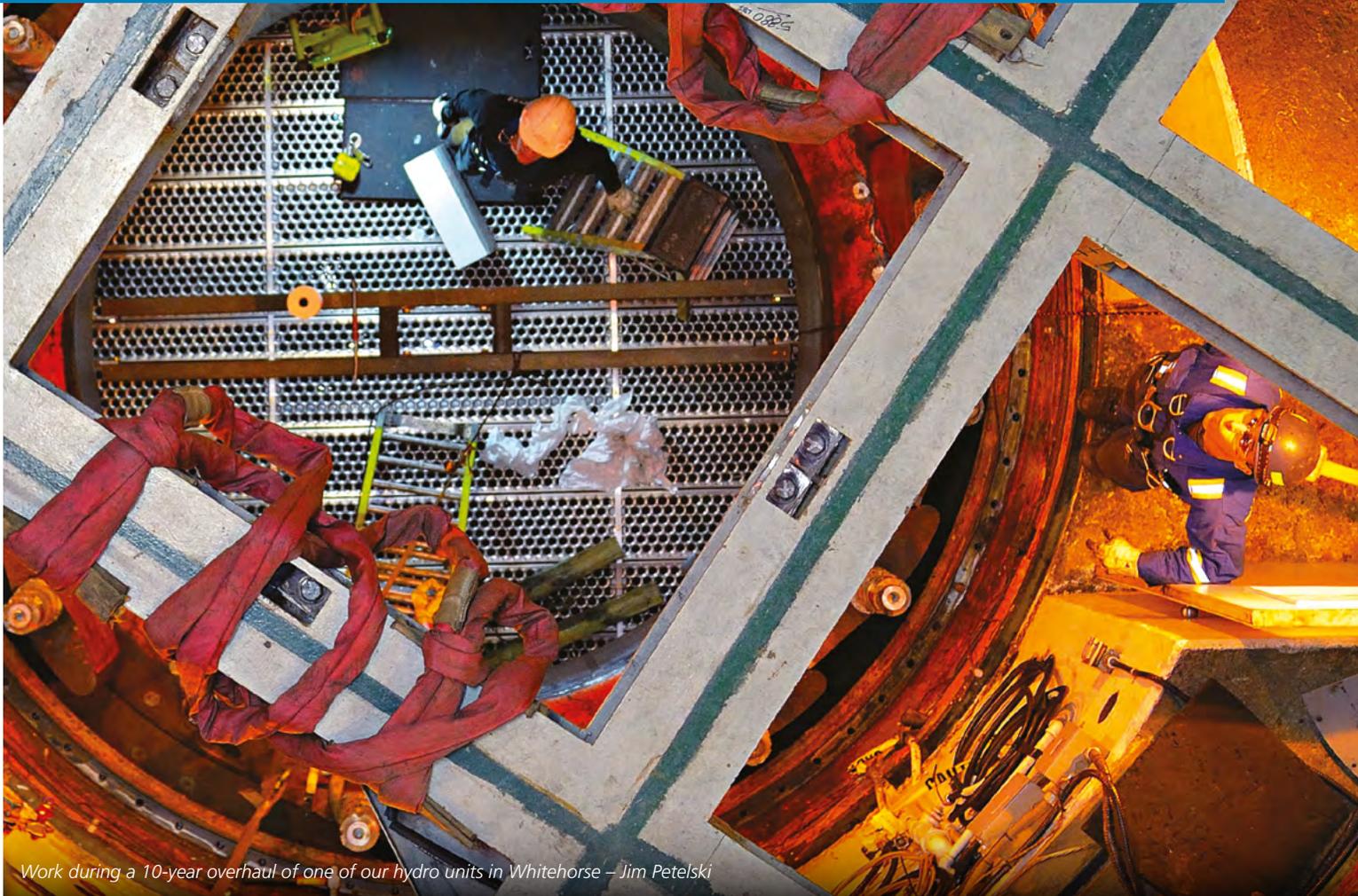
But 2019 was a very different year. By March of 2019, there was reduced snowpack and lower water inflow levels at all three of our hydroelectric facilities compared to previous years. Snowpack levels at our Whitehorse reservoir were 63% of normal levels, Aishihik at 45% and Mayo at 70%.

Because Yukoners need electricity even when Mother Nature changes things up, we were required to use more

LNG and diesel than normal in 2019. Hydroelectricity accounted for 84% of our total energy supply in 2019, LNG 15% and diesel 1%.

We continue to pursue renewable alternatives to LNG and diesel such as grid-scale battery storage, and solutions that maximize existing hydro infrastructure, like hydro upratings and the Southern Lakes and Mayo Lake Enhanced Storage projects. We will also explore new sources of dependable renewable capacity as part of our 10-Year Renewable Electricity Plan.

Finally, we will continue to encourage Yukoners to use electricity wisely with programs such as Peak Smart.



*Work during a 10-year overhaul of one of our hydro units in Whitehorse – Jim Petelski*

## Community

As a Crown corporation, the “shareholders” of Yukon Energy are ultimately Yukoners themselves. We never lose sight of that fact. Engaging with Yukoners is high on our list of operating practices. So, too, is giving back to the communities we are privileged to serve.

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### NEW THERMAL GENERATION PROJECT

In 2019, we asked Yukoners for their feedback on our proposed new 20 megawatt (MW) thermal generation facility. The facility was meant to provide electricity quickly during loss of hydro generation, peak hours of consumption, low water periods, extreme low temperatures and emergencies.

Four open houses were held in the first week of June, generating over 500 questions and comments. An online survey was also available, garnering 447 responses, along with several other comments we received by email and phone. From the feedback we received, it was clear that Yukoners did not want us to proceed with building a new green-field diesel or LNG facility.

Based on the feedback, the Yukon Energy Board of Directors agreed to explore other alternatives.

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### SOUTHERN LAKES ENHANCED STORAGE PROJECT

Since 2009, Yukon Energy has collected input from Southern Lakes residents and property owners about the Southern Lakes Enhanced Storage Project. The project would help us generate more electricity using water each winter, and reduce the use of fossil fuels. Over the years, the Corporation has also had discussions with the Carcross/Tagish First Nation, Kwanlin Dün First Nation and Ta’an Kwäch’än Council to understand potential impacts of the project on Traditional and Settlement Lands in the project area.

In 2019, at the direction of a newly appointed Yukon Energy Board of Directors and in follow-up to a request made by the Yukon Utilities Board to re-examine the proposed project, Yukon Energy undertook a comprehensive final round of public and stakeholder engagement to obtain information about the current level of social licence for the project, both amongst Southern Lakes residents and property owners, and other Yukoners.

Between August 2019 and January 2020, feedback was collected through five community meetings, three Local Advisory Council meetings, four pop-up booths, an online input form, email submissions and both a Southern Lakes residents and Yukon-wide web and phone survey.

All feedback is being compiled into a What We Heard report that will be released in 2020. The Board’s decision about whether to move forward on the project will also be released in 2020.

## Community

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### CORPORATE CONTRIBUTIONS

At Yukon Energy, we believe in the importance of giving back to our community. In 2019 we:

- Increased our corporate contributions budget and developed a giving category specific to First Nations culture and community programming.
- Contributed more than \$116,000 to more than 25 community organizations across Yukon in the following areas.
  - Arts, culture and tourism
  - Sports and recreation
  - Health, social services and education
  - Sustainable development
  - First Nations culture
- Made an additional one-time \$100,000 contribution to the 2020 Arctic Winter Games.
- Donated more than \$23,000 to United Way Yukon during our annual United Way campaign.
  - Employees and Yukon Energy board members donated \$11,842 through online auction purchases, pay-roll deductions and one-time donations of cash or meeting honourariums.
  - Yukon Energy matched donations dollar-for-dollar.
  - Seven Yukon Energy employees donated their time to pack emergency food kits and stock shelves at the Whitehorse Food Bank.
- Awarded \$12,000 in post-secondary scholarships.

## Partnerships

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### FIRST NATIONS

We recognize First Nations as governments and energy proponents, partners and investors. We are committed to working with First Nations governments and development corporations to forge partnerships and create opportunities for investment, contracting, employment and training.

- On November 23, 2019, we signed a Project Agreement with the First Nation of Na-Cho Nyäk Dun for the Mayo to McQuesten Transmission Line Replacement project that:
  - provides a legacy benefit to the First Nation;
  - creates First Nations procurement opportunities with a 20% weighting of First Nations benefits in each Request for Proposals (RFP);
  - enables the First Nation to provide input into the RFP terms and evaluation criteria;
  - provides for one local First Nations Citizen to be employed as a First Nations Wildlife Monitor during periods of construction; and
  - makes salvageable wood accessible.

We are also committed to creating a diverse and inclusive workplace representative of the communities we live and work in. That commitment means implementing strategies to guide increased participation of First Nations Citizens in our workplace and enhancing our cultural awareness and understanding of Yukon First Nations.

- All employment opportunities during the year were shared with Yukon First Nations.

- In 2019, all Yukon Energy board members and 56% of our employees participated in Yukon College's Yukon First Nations Core Competency course. The remainder of our staff will complete the training in 2020. This training is also now a requirement for all new Yukon Energy employees and board members.

We also continue to work on our Canadian Council for Aboriginal Business Progressive Aboriginal Relations (PAR) Committed designation, which recognizes results in aboriginal relations through leadership actions, employment, business development and community relationships.

- We are in Phase 2 of 3 of the PAR Committed designation and are preparing our application for PAR certification.




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## UTILITY AND INDUSTRY

- We partnered with ATCO Electric Yukon, Yukon Development Corporation and Natural Resources Canada on our Peak Smart program.
- We actively participated in subgroups of the Canadian Electricity Association sharing industry best practices.

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## YUKON AND FEDERAL GOVERNMENTS

Our large and far-flung electrical system serves a modest group of rate payers. It requires the support of outside funding for substantial projects. In 2019, Yukon Energy secured almost \$40 million in federal funding. This funding went towards the following.

### Peak Smart

- We received \$650,000 from the federal government to implement Peak Smart, a two-year pilot program meant to shift energy use away from periods of peak demand and thus reduce the use of fossil fuels.

### Mayo to McQuesten Transmission Line Replacement Project

- We received \$22.7 million in federal funding to proceed with this critical project needed to improve power quality and reliability, improve public safety, and foster future economic growth in the Mayo and Keno areas.

### Grid-Scale Battery Storage

- We received \$16.5 million in federal funding to support the construction of our new battery storage system. Once completed, the new battery will be one of the largest grid-connected batteries in Canada.



\$2.3

million net income in 2019

Photo – aasman brand communications

# management discussion and analysis

## Core Business and Strategy

Our business is the generation and transmission of electrical energy to most of Yukon. We also distribute electricity to a number of Yukon communities including Dawson City, Mayo and Faro. We strive for energy production that is sustainable, reliable and cost-effective. Our primary source of power comes from our legacy hydro assets and our goal is to minimize the use of non-renewable sources due to higher variable cost and environmental impacts.

Yukon Energy's strategy is based on the following key strategic pillars.

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### SUSTAINABILITY

Yukon Energy is committed to the principles of sustainability in all our business practices, with the objective of protecting and enhancing Yukon's human and natural resources. Yukon Energy developed a Sustainability Policy in 2017 and was awarded the "Sustainable Electricity Company" designation by the Canadian Electricity Association (CEA) in 2017. In terms of the development of new energy resources, Yukon Energy is committed to developing renewable resources while recognizing the limitations of certain forms of renewable generation in meeting the energy and capacity needs of Yukon's isolated grid. Thermal generation will continue to play an important role in meeting peak electricity demand cost-effectively, and providing insurance against contingent events such as drought and outages of key hydro facilities. Yukon Energy applies a social cost of carbon to the economics of future thermal generation resources, in order to level the playing field between renewable and fossil fuel options when planning new resource investments.

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### FIRST NATIONS RELATIONSHIPS

Yukon Energy is committed to active engagement with Yukon First Nations, striving to meet the spirit and intent of Land Claims obligations. We recognize First Nations as decision bodies and energy proponents, partners and investors. We seek to leverage Yukon Energy's ongoing business operations and future project development work to create opportunities for economic, social and cultural development for Yukon First Nations. Key First Nations initiatives include project-specific agreements, and Yukon Energy's First Nations Employment and Procurement policies. Yukon Energy is pursuing certification under the Canadian Council for Aboriginal Business Progressive Aboriginal Relations (PAR) program to manage and benchmark its First Nations engagement program.

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## DISCIPLINED FINANCIAL MANAGEMENT

Given the rate pressures faced by Yukon Energy's customers and the prospect for future rate increases driven by the Corporation's capital investment needs, disciplined financial management of Yukon Energy's operating and project-related business is essential. Yukon Energy is also committed to continuous improvement as a management philosophy to drive sustained improvements in its operational performance and efficiency.

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## RIGOROUS AND PROACTIVE PLANNING

Yukon Energy applies industry best practices and processes for the planning of future capital investments required to sustain the Corporation's aging infrastructure and address growing demand for energy and capacity. Rigorous planning of future investments is required to optimize and prioritize capital expenditures, accounting for the financial constraints within which the Corporation operates. Key business processes that support these planning activities include Integrated Resource Planning and Asset Management. Yukon Energy has developed and annually updates its 5-year capital plan, including investments required to sustain existing assets and meet future growth, as a key tool to document and communicate the Corporation's longer-term capital needs.

Photo – Archbould.com



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## STAKEHOLDER AND EMPLOYEE ENGAGEMENT

As a public utility, Yukon Energy is committed to broadly engage and consult with stakeholders during the planning of new projects and initiatives, and to incorporate to the extent possible, the preferences of stakeholders in those plans. This consultation is essential to securing social license for corporate initiatives, while also balancing the obligations of the Corporation to its shareholder and its primary regulators (the Yukon Utilities Board and the Yukon Water Board). In addition, the Corporation's employees are critical to the company's success. Maintaining a safe, strong and engaged workforce capable of executing Yukon Energy's ambitious plans remains a key strategic priority.

## Capability to Deliver Results

In order to deliver on our strategic goals and achieve planned results, Yukon Energy maximizes the use of available resources while considering risks and impacts to stakeholders. These resources include leadership, labour force, working capital, systems and processes, liquidity, and capital resources.

We continue to develop human resources policies to adapt to our seasoned workforce.

We monitor and forecast our cash and financial strength on an ongoing basis, including current and future projections. We expect to require cash to finance our capital projects in 2020 and are in the process of securing these resources.

Through established policies and procedures Yukon Energy maintains a capital structure ratio of 60% long-term debt and 40% equity.

We continually monitor and evaluate the condition of our assets, and allocate a material portion of our capital budget for maintenance of these assets, thereby ensuring reliability of service to our customers.

We make it a priority to maintain and improve our key relationships with Yukoners including the Yukon government, Yukon Development Corporation, First Nations governments and development corporations, stakeholders, and our bankers. We are currently transitioning our primary banking services from TD Bank to CIBC.

## Results

Net income for the 2019 fiscal year was \$2.3 million, \$3.8 million less than the previous year. The decrease in net income was primarily due to an increase in operations and maintenance expenditures.

Revenue from the sale of power was \$50.5 million; \$2.5 million higher than the prior year due to an increase in all major power sales categories resulting from increased rates and increased consumption.

The regulated rate of Return on Equity for 2019 is 3.52%, down from 6.54% the prior year.

## Outlook

Net income for 2020 is forecast to remain constant due to an increase in sales of power of \$8.6 million offset by increased fuel and operations and maintenance costs. We expect COVID-19 impacts to have both positive and negative effects on Yukon Energy's financial position, net income and cash flows.

The forecast return for 2020 is 4.95%, 3.75% less than the Return on Equity that we were approved in our 2017–2018 GRA of 8.70%.

Yukon Energy is planning for a General Rate Application (GRA) for future years. The GRA will give us the opportunity to adjust rates to reflect the Corporation's cost requirements and capital plans.

## Risk Management

Yukon Energy is exposed to numerous risks in providing service to our customers. Risk impacts include staff and public safety, financial, reputation, long-term and short-term load/resource balance, stakeholder relationships and funding. These risks can range in scale from minor to catastrophic. Yukon Energy endeavors to manage all the risks we face on a cost-effective basis, taking into account the potential reward to be gained in return for the acceptance of the risk. We have an enterprise risk management framework that provides the basis for consistently applying risk management practices.

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### KEY STRATEGIES BY IMPACT AREA

- The safety of our employees, contractors, and members of the public is managed through a well-developed health and safety program that meets or exceeds established standards for the industry.
- Yukon Energy is exposed to reputational impacts from several risks including key asset failure, First Nations consent, social license, cyber security, and insufficient installed capacity. Mitigation strategies used to address these risks include adequate stakeholder engagement, development of an asset management plan, and long-term resource planning.
- Risks that can potentially have a negative financial impact include financing risk, government & shareholder relationship risk, project costs and timeline overrun, regulatory risk, and loss of demand. These are managed through an extensive budgeting process, board oversight of major projects, and keeping the Yukon Utilities Board informed of company plans and activities through regulatory hearings.

## Key Performance Drivers

There are several performance drivers and key performance indicators that are critical to the successful implementation of our strategy and achievement of our goals. Below is an outline of four of our most important performance drivers.

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### HEALTH AND SAFETY

Given the nature of our industry, Yukon Energy takes health and safety seriously. The two primary indicators for measuring success in this area are:

- All Injury Frequency Rate; and
- Reportable Motor Vehicle Incidents

With respect to the former, the Corporation failed to meet its target of an All Injury Frequency Rate of 1.0 or lower. In 2019, we had an All Injury Frequency Rate of 7.6, the result of 5 Medical Aids and 1 Lost Time Injury within the organization. Employee, contractor and public safety remain a key area of focus for us in 2020.

In 2019, Yukon Energy had 0 Reportable Motor Vehicle Incidents – incidents defined by the Canadian Electricity Association as those with damages that exceed \$5,000.

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### RETURN ON EQUITY (ROE)

In the process of regulating and setting rates for Yukon Energy, the Yukon Utilities Board must ensure that the rates are sufficient to allow us to provide reliable electric service while maintaining the financial integrity of the utility, including a return on invested capital.

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### WORKFORCE

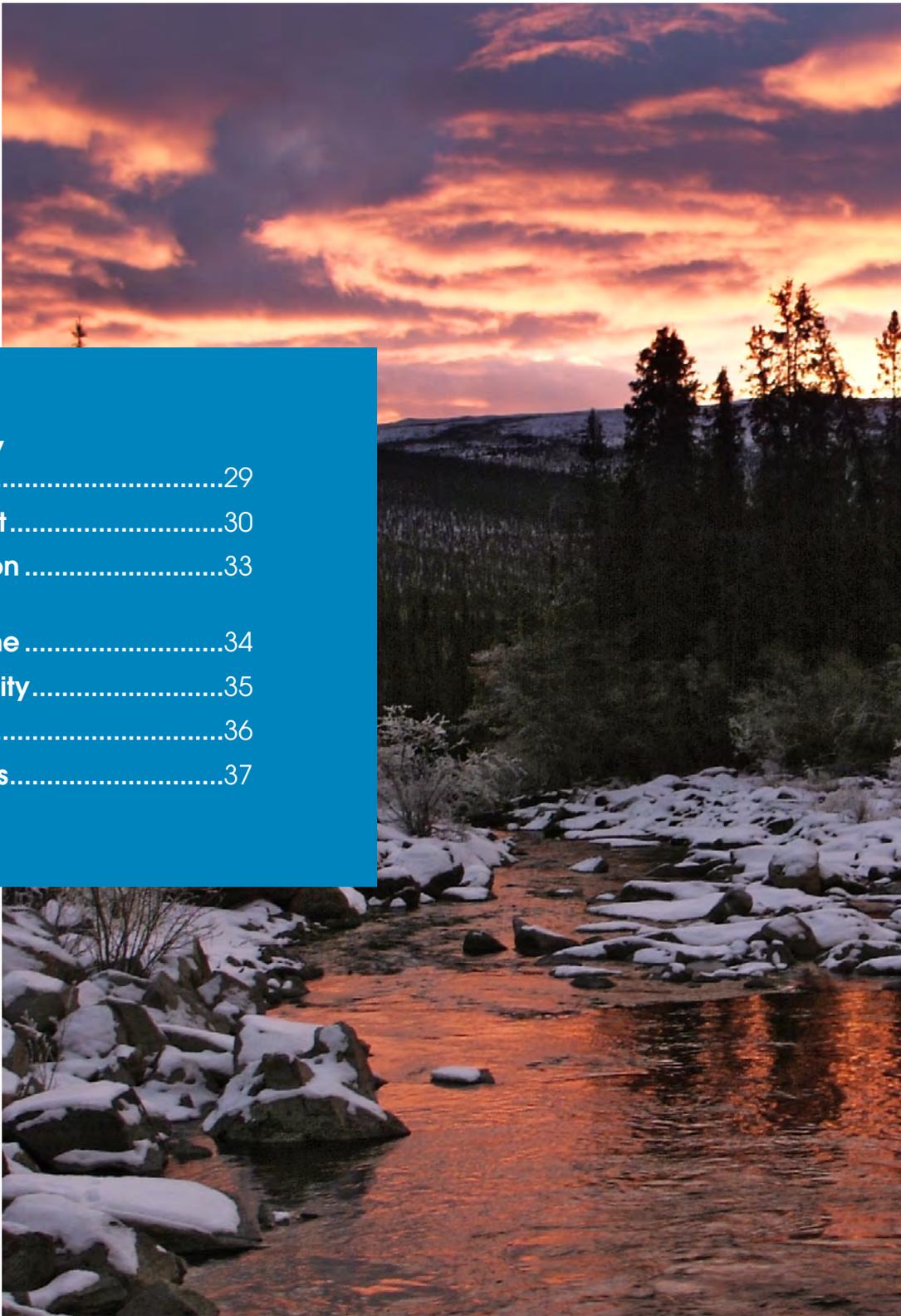
A stable workforce is crucial for delivering services required to achieve our business objectives. We regularly monitor our vacancy and turnover rate to ensure that our staffing is at appropriate levels. We set our human resources policies to recruit and retain a competent workforce, provide opportunities for professional development and perform succession planning.

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### RELIABILITY OF SERVICE

Reliability of service is one of our most important objectives. Improving reliability requires a long-term investment strategy and commitment. Trends in recent performance measures are compared against past results. Senior management reviews performance indicators and acts when actual performance deviates from forecast.

# financial statements



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## Management's Responsibility for Financial Reporting

Management is responsible for the preparation of the financial statements and all other financial information relating to the Utility contained in this annual report. The financial statements have been prepared in conformity with International Financial Reporting Standards using methods appropriate for the industry in which the Utility operates and necessarily include some amounts that are based on informed judgments and best estimates of management. The financial information contained elsewhere in the annual report is consistent with that in the financial statements. The Auditor General of Canada is the external auditor of the Corporation.

Management has established internal accounting control systems to meet its responsibilities for reliable and accurate reporting. These systems include policies and procedures, the careful selection and training of qualified personnel and an organizational structure that provides for the appropriate delegation of authority and segregation of responsibilities.

The Board of Directors, through its Audit Committee, oversees management's responsibilities for financial reporting. The Audit Committee meets regularly with management and the independent auditor to discuss auditing and financial matters to assure that management is carrying out its responsibilities and to review the financial statements. The auditors have full and free access to the Audit Committee and management.

A handwritten signature in black ink, appearing to read "A. Hall".

Andrew Hall  
President and CEO

A handwritten signature in black ink, appearing to read "Ed Mollard".

Ed Mollard  
Chief Financial Officer

May 6, 2020



## INDEPENDENT AUDITOR'S REPORT

To the Board of Directors of the Yukon Energy Corporation

### Report on the Audit of the Financial Statements

#### *Opinion*

We have audited the financial statements of the Yukon Energy Corporation (the Corporation), which comprise the statement of financial position as at 31 December 2019, and the statement of operations and other comprehensive income, statement of changes in equity and statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Corporation as at 31 December 2019, and its financial performance and its cash flows for the year then ended in accordance with International Financial Reporting Standards (IFRSs).

#### *Basis for Opinion*

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the Corporation in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### *Responsibilities of Management and Those Charged with Governance for the Financial Statements*

Management is responsible for the preparation and fair presentation of the financial statements in accordance with IFRSs, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Corporation's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Corporation or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Corporation's financial reporting process.

### *Auditor's Responsibilities for the Audit of the Financial Statements*

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Corporation's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Corporation's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Corporation to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

## Report on Compliance with Specified Authorities

### *Opinion*

In conjunction with the audit of the financial statements, we have audited transactions of the Yukon Energy Corporation coming to our notice for compliance with specified authorities. The specified authorities against which compliance was audited are the *Public Utilities Act* and regulations, the *Business Corporations Act* and regulations and the articles and by-laws of the Yukon Energy Corporation.

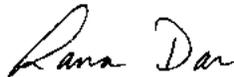
In our opinion, the transactions of the Yukon Energy Corporation that came to our notice during the audit of the financial statements have complied, in all material respects, with the specified authorities referred to above.

### *Responsibilities of Management for Compliance with Specified Authorities*

Management is responsible for the Yukon Energy Corporation's compliance with the specified authorities named above, and for such internal control as management determines is necessary to enable the Yukon Energy Corporation to comply with the specified authorities.

### *Auditor's Responsibilities for the Audit of Compliance with Specified Authorities*

Our audit responsibilities include planning and performing procedures to provide an audit opinion and reporting on whether the transactions coming to our notice during the audit of the financial statements are in compliance with the specified authorities referred to above.



Lana Dar, CPA, CA  
Principal  
for the Interim Auditor General of Canada

Vancouver, Canada  
6 May 2020

**Yukon Energy Corporation**  
**Statement of Financial Position**  
(in thousands of Canadian dollars)

As at	December 31 2019	December 31 2018
<b>Assets</b>		
<b>Current</b>		
Cash	\$ 521	\$ 581
Accounts receivable (Note 5)	10,317	6,873
Inventories (Note 6)	4,017	3,709
Prepaid expenses	741	661
	15,596	11,824
<b>Non-current</b>		
Property, plant and equipment (Note 7)	468,229	451,893
Intangible assets (Note 8)	12,462	10,584
Right-of-use assets (Note 9)	546	-
<b>Total assets</b>	<b>496,833</b>	<b>474,301</b>
Regulatory deferral account debit balances (Note 10)	38,988	34,788
<b>Total assets and regulatory deferral account debit balances</b>	<b>\$ 535,821</b>	<b>\$ 509,089</b>
<b>Liabilities</b>		
<b>Current</b>		
Bank indebtedness (Note 11)	\$ 19,881	\$ -
Accounts payable and accrued liabilities (Note 12)	10,241	11,088
Construction financing (Note 13)	26,344	22,385
Current portion of deferred revenue (Note 17)	2,661	1,700
Current portion of lease liability (Note 9)	151	-
Current portion of long-term debt (Note 14)	6,054	80,210
	65,132	115,383
<b>Non-current</b>		
Post-employment benefits (Note 15)	7,689	5,768
Contributions in aid of construction (Note 16)	149,461	151,794
Deferred revenue (Note 17)	17,994	10,194
Lease liability (Note 9)	405	-
Derivative related liability (Note 25)	1,930	1,042
Long-term debt (Note 14)	163,602	86,058
<b>Total liabilities</b>	<b>406,213</b>	<b>370,239</b>
<b>Equity</b>		
<b>Share capital</b>		
Authorized: Unlimited number of a single class of shares with no par value Issued and fully paid: 3,900 shares	39,000	39,000
Contributed surplus	14,600	14,600
Retained earnings	65,596	68,014
<b>Total equity</b>	<b>119,196</b>	<b>121,614</b>
<b>Total liabilities and equity</b>	<b>525,409</b>	<b>491,853</b>
Regulatory deferral account credit balances (Note 10)	10,412	17,236
<b>Total liabilities, equity and regulatory deferral account credit balances</b>	<b>\$ 535,821</b>	<b>\$ 509,089</b>

**Commitments and Contingencies (Notes 22 and 23)**

The accompanying notes are an integral part of these financial statements.

**Approved by the Board**

 Chair

 Director

**Yukon Energy Corporation**  
**Statement of Operations and Other Comprehensive Income**  
(in thousands of Canadian dollars)

<b>For the year ended December 31</b>	<b>2019</b>	<b>2018</b>
<b>Revenues</b>		
Sales of power (Note 18)	\$ 50,489	\$ 47,991
Other	1,474	318
	<b>51,963</b>	<b>48,309</b>
<b>Operating expenses</b>		
Operations and maintenance (Note 19)	32,725	23,487
Depreciation and amortization (Notes 7, 8 and 9)	13,397	13,035
Administration (Note 20)	11,997	11,801
	<b>58,119</b>	<b>48,323</b>
<b>Loss before other income and other expenses</b>	<b>(6,156)</b>	<b>(14)</b>
<b>Other income</b>		
Amortization of contributions in aid of construction (Note 16)	2,860	3,574
Allowance for funds used during construction	648	540
	<b>3,508</b>	<b>4,114</b>
<b>Other expenses</b>		
Interest on borrowings	5,176	4,594
Unrealized loss on interest rate swap (Note 25)	888	986
	<b>6,064</b>	<b>5,580</b>
<b>Net loss for the year before net movement in regulatory deferral account balances</b>	<b>(8,712)</b>	<b>(1,480)</b>
<b>Net movement in regulatory deferral account balances related to net income (Note 10 (d))</b>	<b>11,024</b>	<b>7,577</b>
<b>Net income for the year and net movement in regulatory deferral account balances</b>	<b>2,312</b>	<b>6,097</b>
<b>Other comprehensive (loss) income (Note 3 (o))</b>		
Item that will not be reclassified to net income in subsequent periods		
Re-measurement of defined benefit pension plans (Note 15)	(1,859)	550
<b>Total comprehensive (loss) income for the year</b>	<b>\$ 453</b>	<b>\$ 6,647</b>

The accompanying notes are an integral part of these financial statements.

**Yukon Energy Corporation**  
**Statement of Changes in Equity**  
(in thousands of Canadian dollars)

	Share Capital Number of shares	Capital \$	Contributed surplus	Retained earnings	Accumulated other comprehensive Income (loss)	Total
<b>Balance at December 31, 2017</b>	<b>3,900</b>	<b>\$ 39,000</b>	<b>\$ 14,600</b>	<b>\$ 61,367</b>	<b>\$ -</b>	<b>\$ 114,967</b>
Net income for the year and net movement in regulatory deferral account balances	-	-	-	6,097	-	6,097
Other comprehensive income	-	-	-	-	550	550
Transfer of re-measurement of defined benefit pension plans to retained earnings	-	-	-	550	(550)	-
<b>Balance at December 31, 2018</b>	<b>3,900</b>	<b>\$ 39,000</b>	<b>\$ 14,600</b>	<b>\$ 68,014</b>	<b>\$ -</b>	<b>\$ 121,614</b>
Net income for the year and net movement in regulatory deferral account balances	-	-	-	2,312	-	2,312
Other comprehensive loss	-	-	-	-	(1,859)	(1,859)
Transfer of re-measurement of defined benefit pension plans to retained earnings	-	-	-	(1,859)	1,859	-
Dividends	-	-	-	(2,871)	-	(2,871)
<b>Balance at December 31, 2019</b>	<b>3,900</b>	<b>\$ 39,000</b>	<b>\$ 14,600</b>	<b>\$ 65,596</b>	<b>\$ -</b>	<b>\$ 119,196</b>

The accompanying notes are an integral part of these financial statements.

**Yukon Energy Corporation**  
**Statement of Cash Flows**  
(in thousands of Canadian dollars)

For the year ended December 31	2019	2018
<b>Operating activities</b>		
Cash receipts from customers	\$ 46,257	\$ 48,600
Cash receipts from contributions in aid of construction	527	78
Cash paid to suppliers	(32,015)	(20,319)
Cash paid to employees	(11,962)	(12,455)
Interest paid	(5,043)	(4,196)
<b>Cash (used in) provided by operating activities</b>	<b>(2,236)</b>	11,708
<b>Financing activities</b>		
Receipt of construction financing	3,959	-
Proceeds from long-term debt	6,688	23,600
Repayment of long-term debt	(6,248)	(5,103)
Lease payments	(166)	-
<b>Cash provided by financing activities</b>	<b>4,233</b>	18,497
<b>Investing activities</b>		
Additions to property, plant and equipment	(19,392)	(19,695)
Additions to intangible assets	(2,346)	(2,875)
<b>Cash used in investing activities</b>	<b>(21,738)</b>	(22,570)
<b>Net (decrease) increase in cash</b>	<b>(19,741)</b>	7,635
<b>Cash, beginning of year</b>	<b>581</b>	(7,054)
<b>Cash, end of year</b>	<b>\$ (19,160)</b>	<b>\$ 581</b>
Cash includes:		
Cash	\$ 521	\$ 581
Bank indebtedness	(19,681)	-
	<b>\$ (19,160)</b>	<b>\$ 581</b>

The accompanying notes are an integral part of these financial statements.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 1. NATURE OF OPERATIONS

#### a) General

Yukon Energy Corporation ("the Utility") is incorporated under the Yukon *Business Corporations Act* and is a wholly-owned subsidiary of Yukon Development Corporation ("YDC" or "the Parent"), a corporation owned by the Yukon Government ("the Government" or "YG"). The Utility generates, transmits, distributes and sells electrical energy in the Yukon. The Utility is not subject to income taxes. The Utility's principal place of business is located at #2 Miles Canyon Road, Whitehorse, Yukon, Y1A 6S7.

The Utility is subject to overall regulation by the Yukon Utilities Board ("YUB") and specific regulation by the Yukon Water Board. Both boards are consolidated by the Government and as such are considered to be related parties for accounting purposes. Management has assessed that these boards operate independently from the Utility from a rate setting and operating perspective.

#### b) Rate regulation

The operations of the Utility are regulated by the YUB pursuant to the *Public Utilities Act*. The Utility is subject to a cost of service regulatory mechanism under which the YUB establishes the revenues required (i) to recover the forecast operating costs, including depreciation and amortization, of providing the regulated service, and (ii) to provide a fair and reasonable return on utility investment in rate base. There is no minimum requirement for the Utility to appear before the YUB to review rates. However, the Utility is not permitted to charge any rate for the supply of power that is not approved by an Order of the YUB. As actual operating conditions may vary from forecast, actual returns achieved can differ from approved returns.

The regulatory hearing process used to establish or change rates typically begins when the Utility files a General Rate Application ("GRA") for its proposed electricity rate changes over the next one or two forecast years. The YUB must ensure that its decision, which fixes electricity rates, complies with appropriate principles of rate making, all relevant legislation including the *Public Utilities Act* and directives issued by the Government through Orders-In-Council ("OIC") that specify how the interests of the customer and Utility are to be balanced.

The YUB typically follows a two-stage decision process. In the first stage, the total costs that the Utility expects it will incur to provide electricity to its customers over the immediate future are reviewed and approved. The approval of these costs determines the total revenues the Utility is allowed to collect from its customers. It is the responsibility of the YUB to examine the legitimacy of three classes of costs:

- the costs to the Utility to run its operations and maintain its equipment (personnel and materials);
- the cost associated with the depreciation of all capital equipment; and
- the return on rate base (the borrowing costs related to borrowing that portion of rate base which is financed with debt plus the costs to provide a reasonable rate of return on that portion of rate base which is financed with equity).

The YUB assesses the prudence of costs added to rate base, which includes an allowance for funds used during construction ("AFUDC") charged to capital projects. The YUB also reviews the appropriateness of property, plant and equipment depreciation rates, which are periodically updated by the Utility through depreciation studies.

In the second stage, the YUB approves how the revenue will be raised. This stage essentially determines the electricity rates for the various customer classes in the Yukon: wholesale, general service, industrial, residential, sentinel and street lights and secondary sales. This process is guided mainly by requirements of OIC 1995/90 and can include a cost-of-service study which allocates the Utility's overall cost of service to the various customer classes on the basis of appropriate costing principles.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 1. NATURE OF OPERATIONS - continued

#### b) Rate regulation - continued

In June 2017, the Utility filed a GRA for the years 2017 and 2018 requesting approval of revenue requirement and related rate increases. The GRA requested rate increases of 9.04% and 2.07% for the years 2017 and 2018 respectively. A refundable interim rider (5.50%) was approved effective September 1, 2017. After responding to multiple rounds of interrogatories and participating in an oral public hearing, the Utility received a preliminary order on its application in December 2018. During 2019 the Utility submitted an initial compliance filing, provided a technical session and submitted a second compliance filing. The Utility received a final order on its application in November 2019. The YUB approved Rider J at 22.32% for retail customers and 18.67% for industrial customers, effective December 1, 2019, as well as a time-limited Rider J1 of 9.25% for a period of 24 months.

The GRA included requested board orders related to the regulatory deferral accounts, specifically: increase of the annual appropriation for uninsured losses and change to the rate of amortization; elimination of the requirement to defer vegetation management costs in excess of the 2011 actual brushing costs and amortization of previously deferred costs; change to the long-term average for fuel costs to better reflect current market conditions; and, decrease of the annual appropriation for the hearing reserve and change to the rate of amortization.

The key findings in YUB Board Order 2018-10 was a direction to the Utility to update the 2017 revenue requirement based on the 2017 actual results and to replace the Diesel Contingency Fund ("DCF") with the Low Water Reserve Fund ("LWRF"). The key finding in YUB Board Order 2019-08 was to amend the calculation of the LWRF. See Note 10(b)(iii) for details on the LWRF impact.

These financial statements reflect the approved rate increase, and all other YUB board orders approved in the GRA which affect the Utility's financial statements for 2019. Refer to Note 4 Regulatory deferral account balances.

#### c) Water regulation

The Yukon Water Board ("YWB"), pursuant to the Yukon *Waters Act*, decides if and for how long the Utility will have water licences for the purposes of operating hydro generation stations in the Yukon. The licences will also indicate terms and conditions for the operation of these facilities. The current water licences have the following terms:

Aishihik Generating Station	February 28, 2023
Mayo Generating Station	December 31, 2025
Whitehorse Generating Station	December 31, 2025

#### d) Capital structure

The Utility's policy which has been approved by the YUB is to maintain a capital structure of 60% debt and 40% equity (Note 26). When dividends are declared to the Parent, they are typically loaned back in order to maintain this ratio during normal on-going operations.

### 2. BASIS OF PRESENTATION

#### a) Statement of compliance

These financial statements have been prepared in accordance with International Financial Reporting Standards ("IFRS").

These financial statements were authorized for issue by the Board of Directors on May 6, 2020.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 2. BASIS OF PRESENTATION - continued

#### b) Basis of measurement

The financial information included in the financial statements has been prepared on a historical cost basis, except for some financial instruments, as described in Note 3(f), which are measured at fair value.

### 3. SIGNIFICANT ACCOUNTING POLICIES

The accounting policies set out below have been applied to all periods presented in these financial statements except for the changes related to adoption of IFRS 16, *Leases*, as described in Note 3(p).

#### a) Revenue recognition

The Utility recognizes revenue from contracts where the right to consideration from a customer corresponds directly with the value to the customer of the Utility's performance completed to date.

The majority of the Utility's revenues from contracts with customers are derived from the generation, transmission, distribution, purchase and sales of electricity under the *Public Utilities Act*. The Utility evaluates whether the contracts it enters into meet the definition of a contract with a customer at the inception of the contract and ongoing basis if there is an indication of a significant change in facts and circumstances. Revenue is measured based on the transaction price specified in a contract with a customer. Revenue is recognized when control over a promised good or service is transferred to the customer and the Utility is entitled to consideration as a result of completion of the performance obligation.

The Utility recognizes a contract asset or deferred revenue for the contracts where the performance obligation has not been satisfied. Deferred revenue is recognized when the Utility receives consideration before the performance obligations have been satisfied. A contract asset is recorded when the Utility has rights to consideration for the completion of a performance obligation when that right is conditional on something other than the passage of time. The Utility recognizes unconditional rights to consideration separately as a trade receivable. Contract assets are evaluated at each reporting period to determine whether there is any objective evidence that they are impaired.

Electricity sales contracts are deemed to have a single performance obligation as the promise to transfer individual goods or services is not separately identifiable from other obligations in the contracts and therefore not distinct. These performance obligations are considered to be satisfied over time as electricity is delivered because of the continuous transfer of control to the customer. The method of revenue recognition for the electricity is an output method, which is based on the volume delivered to the customer.

The Utility's electricity sales are calculated based on the customer's usage of electricity during the period at the applicable published rates for each customer class. Electricity rates in the Yukon are set by the YUB. Electricity sales include an estimate of electricity deliveries not yet billed at period-end. The estimated unbilled revenue is based on several factors, including estimated consumption by customer, applicable customer rates and the number of days between the last billing date and the end of the period.

#### b) Translation of foreign currencies

The functional currency of the Utility is the Canadian Dollar. Revenue and expense items denominated in foreign currencies are translated at exchange rates prevailing during the period. Monetary assets and liabilities denominated in foreign currencies are translated at period-end exchange rates. Non-monetary assets and liabilities are translated at exchange rates in effect when the assets are acquired or the obligations are incurred. Foreign exchange gains and losses are reflected in net income for the period.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 3. SIGNIFICANT ACCOUNTING POLICIES - continued

#### c) Allowance for funds used during construction

The cost of the Utility's property, plant and equipment, intangible assets and certain regulatory deferral accounts includes an allowance for funds used during construction ("AFUDC"). The AFUDC rate is based on the Utility's weighted average cost of debt.

#### d) Cash

Cash is comprised of bank account balances (net of outstanding cheques).

#### e) Inventories

Inventories consist of materials and supplies, diesel fuel and liquefied natural gas. Inventories are carried at the lesser of weighted average cost and net realizable value. Cost includes all expenditures incurred in acquiring the items and bringing them to their existing condition and location. Critical spare parts are recognized in the Utility's property, plant and equipment.

The recoverable value of inventory considers its net realizable value, including required processing costs, and is impacted by estimates and assumptions on prices, quality, recovery and exchange rates. Obsolete materials and supplies are recorded at salvage value in the period when obsolescence is determined.

#### f) Financial instruments

Financial assets and financial liabilities are recognized on the Utility's Statement of Financial Position when the Utility becomes party to the contractual provisions of the instrument.

##### i) Financial assets

Cash and accounts receivable, plus any transaction costs that are directly attributable to the acquisition of the financial asset, are initially measured at fair value. Subsequent to initial recognition, cash is measured at amortized cost and accounts receivable are measured at amortized cost using the effective interest rate method less any impairment. The Utility's business model is to hold these assets to collect contractual cash flows.

A provision for impairment of accounts receivable is established applying the expected credit loss model based on all possible default events over the expected life of the financial asset. For trade accounts receivable, the Utility applies the simplified approach which requires expected lifetime losses to be recognized from initial recognition of the receivables. For other receivables, at the reporting date, if credit risk has increased significantly since initial recognition, the Utility measures the loss allowance at an amount equal to the lifetime expected credit losses, otherwise, if the credit risk has not increased significantly since initial recognition, the Utility measures the loss allowance at an amount equal to 12-month expected credit losses.

Significant financial difficulties of the debtor, probability that the debtor will enter into bankruptcy or require financial reorganization, and default or delinquency in payments are considered indicators that the related accounts receivable are impaired. The accounts receivable carrying amount is reduced through the use of an allowance account and the loss is recognized in net income. A financial asset is derecognized when the rights to receive cash flows from the asset have expired, or the Utility has transferred its rights to receive cash flows from the asset and has transferred substantially all the risk and rewards of the asset.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 3. SIGNIFICANT ACCOUNTING POLICIES - continued

#### f) Financial instruments - continued

##### ii) Financial liabilities

Bank indebtedness, accounts payable and accrued liabilities, construction financing and long-term debt are initially measured at fair value less any transaction costs that are directly attributable to the issuance of the financial liability. Subsequent to initial recognition, these financial liabilities are measured at amortized cost using the effective interest method.

Transaction costs are presented as a reduction from the carrying value of the related debt and are amortized using the effective interest rate method over the terms of the debts to which they relate. Transaction costs include fees paid to agents, brokers and advisors but exclude debt discounts and lender financing costs.

Derivative financial instruments are financial contracts that derive their value from changes in an underlying variable. The Utility has entered into interest rate swaps to manage interest rate risk. The Utility's interest rate swap is classified as fair value through profit and loss and is thus recognized at fair value on the date the contract has been entered into with any subsequent realized and unrealized gains and losses recognized in net income during the period in which the fair value movement occurred.

A financial liability is derecognized when the obligation is discharged or cancelled, or expires.

#### g) Property, plant and equipment

Property, plant and equipment are carried at cost, less accumulated depreciation and any asset impairment charges. Cost includes the direct costs of acquisition and materials, direct labour, and, if applicable, an allocation of directly attributable overhead costs, AFUDC and any asset retirement costs associated with the property, plant and equipment.

AFUDC is applied to actual costs in work-in-progress less any contributions in aid of construction. For items of property, plant and equipment acquired prior to January 1, 2011, the AFUDC rate also included a regulatory cost of equity component as allowed by the YUB. Capitalization of AFUDC ceases when the asset being constructed is substantially ready for its intended purpose.

Assets under construction are recognized as in construction work-in-progress until they are operational and available for use, at which time they are transferred to the applicable component of property, plant and equipment.

Depreciation is recognized in net income based on the straight-line method over the estimated useful life of each major component of property, plant and equipment.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 3. SIGNIFICANT ACCOUNTING POLICIES - continued

#### g) Property, plant and equipment - continued

The range of the estimated useful lives of the major classes and subclasses of property, plant and equipment is as follows:

Generation	
Hydroelectric plants	30 to 103 years
Thermal plants	12 to 72 years
Transmission	20 to 65 years
Distribution	12 to 55 years
Buildings	20 to 55 years
Transportation	9 to 31 years
Other equipment	5 to 20 years

Depreciation commences when an asset is available for use. The estimated useful lives of the assets are based upon depreciation studies conducted periodically by the Utility and any changes in the estimated useful lives are accounted for prospectively.

Major overhaul costs are capitalized and depreciated on a straight-line basis over the period of the expected useful life (until the next major overhaul) which varies from 5 to 10 years. Repairs and maintenance costs of property, plant and equipment are expensed as incurred unless they meet the criteria of a betterment.

#### h) Intangible assets

Intangible assets are carried at cost less accumulated amortization and any asset impairment charges. Cost includes the direct costs of acquisition and materials, direct labour, and, if applicable, an allocation of directly attributable overhead costs and AFUDC.

Amortization is recognized in net income on a straight-line basis over the estimated useful lives as follows:

Software	5 years
Deferred service costs	12 years
Financial software	10 years
Licensing costs	
Hydro generation	17 to 25 years
Diesel generation	3 years

The water licence for the Aishihik generating station received a 3 year extension. Costs associated with the 3 year extension are being amortized over 3 years (see Note 22).

#### i) Leases

At inception of a contract, the Utility assesses whether a contract is, or contains, a lease. A contract is, or contains, a lease if the contract conveys the right to control the use of an identified asset. The Utility assesses whether:

- The contract involves the use of an identified asset;
- The Utility has the right to obtain substantially all of the economic benefits from use of the asset throughout the period of use; and
- The Utility has the right to direct the use of the asset.

At inception, the Utility allocates the consideration in the contract to each lease component on the basis of the relative stand-alone prices.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 3. SIGNIFICANT ACCOUNTING POLICIES - continued

#### i) Leases - continued

The Utility recognizes a right-of-use asset and a lease liability at the lease commencement date. The right-of-use asset is initially measured at cost, which comprises the initial amount of the lease liability adjusted for any lease payments made at or before the commencement date, plus any initial direct costs incurred and an estimate of costs to dismantle and remove the underlying asset or to restore the underlying asset or the site on which it is located, less any lease incentives received. The Utility elected to exclude short-term leases with a term of twelve months or less as well as leases of low-value assets, and accounts for the lease payments associated with these leases as an expense on a straight-line basis over the lease term.

The right-of-use asset is subsequently depreciated using the straight-line method from the commencement date to the earlier of the useful life of the right-of-use asset or the end of the lease term. The estimated useful lives of right-of-use assets are determined on the same basis as those property, plant and equipment. In addition, the right-of-use asset is periodically reduced by impairment losses, if any, and adjusted for certain remeasurements of the lease liability. Right-of-use assets are tested for impairment in accordance with IAS 36, *Impairment of Assets*, and impairments are recorded in net income.

The lease liability is initially measured at the present value of the lease payments that are not paid at the commencement date, discounted using the interest rate implicit in the lease or, if that rate cannot be readily determined, the Utility's incremental borrowing rate. Generally, the Utility uses its incremental borrowing rate as the discount rate. Subsequent to recognition, the lease liability is measured at amortized cost using the effective interest rate method. A lease liability is remeasured when there is a change in future lease payments arising mainly from a change in an index or rate, or if the Utility changes its assessment of whether it will exercise a renewal or termination option. When the lease liability is remeasured, a corresponding adjustment is made to the carrying amount of the right-of-use asset, or is recorded in net income if the carrying amount of the right-of-use assets has been reduced to zero.

#### j) Impairment of non-financial assets

Property, plant and equipment, and intangible assets with finite lives are reviewed for impairment on an annual basis if there is an indication that the carrying amount may not be recoverable. Impairment is assessed at the level of cash-generating units, which are identified as the smallest identifiable group of assets that generates cash inflows that are largely independent of the cash inflows from other assets or group of assets.

When an impairment review is undertaken, the recoverable amount is assessed by reference to the higher of value in use and fair value less costs to sell ("FVLCS"). Value in use is the net present value of expected future cash flows of the relevant cash-generating unit in its current condition.

The best evidence of FVLCS is the value obtained from an active market or binding sale agreement. Where neither exists, FVLCS is based on the best information available to reflect the amount the Utility could receive for the cash-generating unit in an arm's length transaction. This is often estimated using discounted cash flow techniques and where unobservable inputs are material to the measurement of the recoverable amount, the measurement is classified as level 3 in the fair value hierarchy. The cash flow forecasts for FVLCS purposes are based on management's best estimates of expected future revenues and costs, including the future cash costs of production, capital expenditure, closure, restoration and environmental cleanup. For regulatory deferral account debit balances the impairment review focuses on whether the amount is considered collectible based on the expected cash flows from the rates approved by the YUB.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 3. SIGNIFICANT ACCOUNTING POLICIES - continued

#### j) Impairment of non-financial assets - continued

These determinations and their individual assumptions require that management make a decision based on the best available information at each reporting period. Changes in these assumptions may alter the results of impairment testing, impairment charges recognized in net income and the resulting carrying amounts of the assets.

#### k) Rate regulated accounting policies

##### Regulatory deferral accounts

Regulatory deferral accounts in these financial statements are accounted for differently than they would be in the absence of rate regulation. The Utility defers certain costs or revenues as regulatory deferral account debit balances or regulatory deferral account credit balances on the Statement of Financial Position and recognizes changes in the regulatory deferral account balances in the net movement in regulatory deferral account balances in the Statement of Operations and Other Comprehensive Income. The amounts recognized as regulatory deferral account balances are expected to be recovered or refunded in future rates, based on approvals by the YUB. The recovery or settlement of regulatory deferral account balances through future rates is impacted by demand risk and regulatory risks (e.g. potential future decisions of the YUB which could result in material adjustments to these regulatory deferral account debit balances and regulatory deferral account credit balances as described in Note 1(b)).

##### i) Regulatory deferral account debit balances

Regulatory deferral account debit balances represent costs which are expected to be recovered from customers in future periods through the rate-setting process. In the absence of rate regulation and the Utility's adoption of IFRS 14, *Regulatory Deferral Accounts*, such costs would be expensed as incurred.

##### ii) Regulatory deferral account credit balances

Regulatory deferral account credit balances represent future reductions or limitations of increases in revenues associated with amounts that are expected to be refunded to customers as a result of the rate-setting process. In the absence of rate regulation and the Utility's adoption of IFRS 14, such amounts would be recorded in income as performance obligations are met.

Note 10 describes the individual regulatory deferral accounts, the Utility's related regulatory deferral and amortization policies and describes the related account activity in the relevant periods.

#### l) Provision for asset retirement obligations

The Utility has legal obligations related to the closure and restoration of property, plant and equipment, which includes the costs of dismantling, demolition of infrastructure and the removal of residual materials and remediation of the disturbed areas.

Where a reliable estimate of the present value of these obligations can be determined, the total retirement costs are recognized as a provision in the accounting period when the obligation arises. There is also a corresponding increase to property, plant and equipment upon recognition of the obligation. Management estimates its costs based on feasibility and engineering studies and assessments using current restoration standards and techniques.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 3. SIGNIFICANT ACCOUNTING POLICIES - continued

#### m) Provision for environmental liabilities

Environmental liabilities consist of the estimated costs related to the remediation of environmentally contaminated sites. The Utility will accrue a provision when it has a present obligation as a result of a past event to remediate the contaminated site, it is expected that future economic benefits will be given up to settle the obligation, and a reliable estimate of the amount of the obligation can be made.

If the likelihood of the Utility's obligation to incur these costs is either not determinable or the amount of the obligation cannot be reliably estimated, the contingency is disclosed in the notes to the financial statements.

The Utility reviews its provision for environmental liabilities on an ongoing basis and any changes are recognized in net income for the current period.

#### n) Contributions in aid of construction

Certain property, plant and equipment additions are made with financial assistance from the Utility's Parent, the YG, or the Government of Canada. These contributions are deferred upon receipt and amortized to income on the basis of the life of the asset to which they relate.

#### o) Post-employment benefits and other comprehensive income

The Utility sponsors an employee defined benefit pension plan for employees joining the Utility before January 1, 2002. The Utility also sponsors an executive defined benefit pension plan and supplemental executive retirement plan for a former executive. Benefits provided are calculated based on length of pensionable service, pensionable salary at retirement age and negotiated rates. The Utility contributes amounts to the pension plans as recommended by an independent actuary.

For the defined benefit plans the cost of pension benefits is actuarially determined using the projected benefits method, prorated on service, and reflects management's best estimates of investment returns, wage and salary increases, and age at retirement. Re-measurements of the net defined benefit liability, including actuarial gains and losses and return on plan assets, are recognized in other comprehensive income ("OCI") and are not reclassified to net income in a subsequent period. The Utility's policy is to immediately transfer actuarial gains and losses recognized in OCI to retained earnings. The expected return on plan assets is based on the fair value of these assets.

Employees joining the Utility after January 1, 2002 are eligible for a defined contribution retirement plan and are not eligible to participate in the defined benefit pension plan. The Utility has no legal or constructive obligation to pay further contributions with respect to this plan. Contributions are recognized as an expense in the year when employees have rendered service and represent the obligation of the Utility.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 3. SIGNIFICANT ACCOUNTING POLICIES - continued

#### p) Impact of adoption of new accounting standard

##### Impact of Adoption of IFRS 16, *Leases*

The Utility has adopted IFRS 16, *Leases*, using the modified retrospective approach without restatement with a date of initial application of January 1, 2019. On transition to IFRS 16, the Utility identified and reviewed each contract that had a lease. Previously, the Utility classified leases as operating or finance leases based on its assessment of whether the lease transferred significantly all of the risks and rewards incidental to ownership of the underlying asset to the Utility and classified operating lease payments as operating costs. Under IFRS 16, a lessee is required to recognize a right-of-use asset representing its right to use the underlying leased asset and a lease liability representing its obligation to make lease payments.

The Utility has applied the following practical expedients:

- Account for existing leases with terms of twelve months or less from the date of initial application as short-term leases and expense on a straight-line basis over the lease term;
- Account for lease payments as an expense and not recognize a right-of-use asset if the underlying asset is of low dollar value;
- Exclude indirect costs from the measurement of right-of-use assets at the date of initial application;
- Use hindsight, such as in determining the lease term in relation to extension options or termination options;
- Measure the right-of-use assets under lessee arrangements at the same amount as the lease liability, adjusted by the amount of any prepaid or accrued lease payments before the date of initial application; and
- Not re-assess IAS 17 and IFRIC 4 determinations of which contracts that existed at or prior to the date of initial application were a lease, or contained a lease.

As a result of IFRS 16 adoption, the Utility recognized right-of-use assets and a corresponding lease liability of \$702,000, with no effect on opening retained earnings. On transition, the weighted average incremental borrowing rate applied to lease liability recognized under IFRS 16 was 3.2%.

The following is a reconciliation of the total commitments as at December 31, 2018 to the lease liability recognized at January 1, 2019.

Total commitments as at December 31, 2018	\$	2,935
Less: Non-lease commitments		(1,408)
<hr/>		
Total operating lease commitments as at December 31, 2018		1,527
Recognition exemption for short-term leases		(771)
<hr/>		
Operating lease liability before discounting	\$	756
Discounted using incremental borrowing rate		(54)
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Operating lease liability at January 1, 2019		702
Reasonably certain extension options		-
Other		-
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Total lease liability recognized under IFRS 16 at January 1, 2019	\$	702

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 4. SIGNIFICANT ACCOUNTING JUDGMENTS, ESTIMATES AND ASSUMPTIONS

The preparation of financial statements requires the use of judgment in applying accounting policies and in making critical accounting estimates that affect the reported amounts of assets, liabilities, revenues and expenses and disclosure of any contingent assets and liabilities. These judgments and estimates are based on management's best knowledge of the relevant facts and circumstances, having regard to previous experience, but actual results may differ from the amounts included in the financial statements. Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which estimates are revised and in any future periods affected. Information about such judgments and estimates is contained in the accounting policies and/or the notes to the financial statements, and the key areas are summarized below.

Areas of significant judgment and estimates made by management in preparing these financial statements include:

#### **Impairment of non-financial assets – Note 3(j)**

An evaluation of whether or not an asset is impaired involves consideration of whether indicators of impairment exist. Management continually monitors the Utility's operations and makes judgments and assessments about conditions and events in order to conclude whether possible impairment exists.

#### **Asset retirement obligations – Notes 3(l) and 23**

In determining the present value of the obligation, the Utility must estimate the amount and timing of the future cash payments and then apply an appropriate risk-free interest rate. Any changes to the anticipated amounts or timing of future payments or risk-free interest rate can result in a change to the obligation.

#### **Depreciation – Notes 3(g), 7 and 9**

Significant components of property, plant and equipment are depreciated straight line over their estimated useful lives. Useful lives are determined based on current facts and past experience and the results of depreciation studies. While these useful life estimates are reviewed on a regular basis and depreciation calculations are revised accordingly, actual lives may differ from the estimates. As such, assets may continue in use after being fully depreciated, or may be retired or disposed of before being fully depreciated. The latter could result in additional depreciation expense in the period of disposition.

#### **Intangible assets – Notes 3(h) and 8**

In determining whether to recognize costs as intangible assets, management makes judgments about when the criteria for recognition are met. Changes to management's judgments would affect the carrying amount of the Utility's intangible assets and amortization recognition.

#### **Post-employment benefits – Notes 3(o) and 15**

The Utility accrues for its obligations under defined benefit pension plans using actuarial valuation methods and other assumptions to estimate the projected benefit obligation and the associated expense related to the current period. The key assumptions utilized include the long-term rate of inflation, rates of future compensation, liability discount rates and the expected return on plan assets. The Utility consults with qualified actuaries when setting the assumptions used to estimate benefit obligations. Actual rates could vary significantly from the assumptions and estimates used.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 4. SIGNIFICANT ACCOUNTING JUDGMENTS, ESTIMATES AND ASSUMPTIONS - continued

#### Revenue – Notes 3(a) and 18

The Utility estimates usage not yet billed at year end, which is included in revenues from sales of power. This accrual is based on an assessment of unbilled electricity supplied to customers between the date of the last meter reading and the year end. Management applies judgment to the measurement of the estimated consumption. Significant judgments have also been made in determining the nature of the Utility's performance obligations, the appropriate process measure and the contract terms to be used in recognizing the related revenue.

#### Provisions and Contingencies – Notes 3(m) and 23

Management is required to make judgments to assess if the criteria for recognition of provisions and contingencies are met, in accordance with IAS 37, *Provisions, Contingent Liabilities and Contingent Assets*.

Key judgments are whether a present obligation exists and the probability of an outflow being required to settle that obligation. Key assumptions in measuring recognized provisions include the timing and amount of future payments and the discount rate applied in measuring the provision.

Where the Utility is defending certain lawsuits management must make judgments, estimates and assumptions about the final outcome, timing of trial activities and future costs as at the period end date. Management will obtain the advice of its external counsel in determining the likely outcome and estimating the expected obligations associated with these lawsuits; however, the ultimate outcome or settlement costs may differ from management's estimates.

#### Financial Instruments – Notes 3(f) and 25

The Utility enters into financial instrument arrangements which may require management to make judgments to determine if such arrangements are derivative instruments in their entirety or contain embedded derivatives, in accordance with IFRS 9, *Financial Instruments*. Key judgments are whether certain non-financial items are readily convertible to cash, whether similar contracts are routinely settled net in cash or delivery of the underlying commodity taken and then resold within a short period, and whether the value of a contract changes in response to a change in an underlying rate, price, index or other variable.

#### Regulatory deferral account balances – Notes 1(b), 3(k) and 10

The Utility accounts for its regulatory deferral accounts in accordance with IFRS 14 and the decisions of the YUB. As discussed in Note 1(b) the recovery of these balances will be determined by the YUB as part of the regulatory proceeding to approve the GRA. Management is required to make judgments as to the amounts that the YUB will approve the Utility to collect deferred costs through future rates.

### 5. ACCOUNTS RECEIVABLE

	December 31 2019	December 31 2018
Trade accounts receivable		
Wholesale energy sales	\$ 5,676	\$ 4,599
Retail energy sales	2,414	1,601
Due from related parties (Note 21)	522	32
Other	1,705	641
	<b>\$ 10,317</b>	<b>\$ 6,873</b>

Included in Accounts receivable - Other is an amount of \$939,000 related to a power purchase agreement. Refer also to Note 17.

## Yukon Energy Corporation

### Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

#### December 31 2019

#### 5. ACCOUNTS RECEIVABLE - continued

At December 31, 2019, the aging of accounts receivable is as follows:

	Current	31 - 90 Days	Over 90 Days	Total
Accounts receivable	\$ 8,647	\$ 800	\$ 880	\$ 10,327
Allowance for doubtful accounts	-	-	(10)	(10)
	\$ 8,647	\$ 800	\$ 870	\$ 10,317

At December 31, 2018, the aging of accounts receivable is as follows:

	Current	31 - 90 Days	Over 90 Days	Total
Accounts receivable	\$ 6,202	\$ 677	\$ 4	\$ 6,883
Allowance for doubtful accounts	-	(6)	(4)	(10)
	\$ 6,202	\$ 671	\$ -	\$ 6,873

A reconciliation of the beginning and ending amount of allowance for doubtful accounts is as follows:

	December 31 2019	December 31 2018
Allowance for doubtful accounts at beginning of year	\$ (10)	\$ (10)
Amounts written off as uncollectable	-	-
Allowance for doubtful accounts at end of year	\$ (10)	\$ (10)

#### 6. INVENTORIES

	December 31 2019	December 31 2018
Materials and supplies	\$ 3,396	\$ 3,067
Diesel fuel	520	457
Liquefied natural gas	101	185
	\$ 4,017	\$ 3,709

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 7. PROPERTY, PLANT AND EQUIPMENT

A reconciliation of the changes in the carrying amount of property, plant and equipment is as follows:

	Generation	Transmission & Distribution	Land, Buildings & Other Equipment	Transportation	Construction Work-in Progress	Total
<b>Cost:</b>						
At December 31, 2017	\$ 295,078	\$ 169,142	\$ 18,022	\$ 4,581	\$ 3,775	\$ 490,598
Additions	-	-	-	-	19,832	19,832
Transfers	10,182	8,733	969	306	(20,190)	-
Disposals	(1,783)	(47)	(220)	-	-	(2,050)
At December 31, 2018	\$ 303,477	\$ 177,828	\$ 18,771	\$ 4,887	\$ 3,417	\$ 508,380
Additions	-	-	-	-	29,928	29,928
Transfers	2,634	21,225	1,592	285	(25,736)	-
Disposals	(1,771)	-	-	-	-	(1,771)
At December 31, 2019	\$ 304,340	\$ 199,053	\$ 20,363	\$ 5,172	\$ 7,609	\$ 536,537
<b>Accumulated depreciation:</b>						
At December 31, 2017	\$ 20,614	\$ 20,219	\$ 3,543	\$ 991	\$ -	\$ 45,367
Depreciation	6,571	4,486	617	319	-	11,993
Disposals	(643)	(10)	(220)	-	-	(873)
At December 31, 2018	\$ 26,542	\$ 24,695	\$ 3,940	\$ 1,310	\$ -	\$ 56,487
Depreciation	6,351	4,818	747	339	-	12,255
Disposals	(434)	-	-	-	-	(434)
At December 31, 2019	\$ 32,459	\$ 29,513	\$ 4,687	\$ 1,649	\$ -	\$ 68,308
<b>Net book value:</b>						
At December 31, 2018	\$ 276,935	\$ 153,133	\$ 14,831	\$ 3,577	\$ 3,417	\$ 451,893
At December 31, 2019	\$ 271,881	\$ 169,540	\$ 15,676	\$ 3,523	\$ 7,609	\$ 468,229

The total AFUDC capitalized for 2019 was \$648,000 (2018 - \$540,000). The AFUDC rate estimate for 2019 was 2.57% (2018 - 2.36%).

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 8. INTANGIBLE ASSETS

A reconciliation of the changes in the carrying amount of intangible assets is as follows:

	Software	Deferred Service Costs	Financial Software	Aishihik Water Licensing	Thermal and Water Licensing	Total
<b>Cost:</b>						
At December 31, 2017	\$ 690	\$ 443	\$ 2,406	\$ 5,944	\$ 2,825	\$ 12,308
Additions	791	-	-	1,983	376	3,150
Disposals	-	-	-	(466)	-	(466)
At December 31, 2018	\$ 1,481	\$ 443	\$ 2,406	\$ 7,461	\$ 3,201	\$ 14,992
Additions	235	-	533	1,289	806	2,863
Transfers	(276)	-	276	-	-	-
Disposals	-	-	-	(2,475)	-	(2,475)
At December 31, 2019	\$ 1,440	\$ 443	\$ 3,215	\$ 6,275	\$ 4,007	\$ 15,380
<b>Accumulated amortization:</b>						
At December 31, 2017	\$ 277	\$ 256	\$ 1,134	\$ 2,068	\$ 97	\$ 3,832
Amortization	183	64	284	479	32	1,042
Disposals	-	-	-	(466)	-	(466)
At December 31, 2018	\$ 460	\$ 320	\$ 1,418	\$ 2,081	\$ 129	\$ 4,408
Amortization	213	64	284	394	30	985
Disposals	-	-	-	(2,475)	-	(2,475)
At December 31, 2019	\$ 673	\$ 384	\$ 1,702	\$ -	\$ 159	\$ 2,918
<b>Net book value:</b>						
At December 31, 2018	\$ 1,021	\$ 123	\$ 988	\$ 5,380	\$ 3,072	\$ 10,584
At December 31, 2019	\$ 767	\$ 59	\$ 1,513	\$ 6,275	\$ 3,848	\$ 12,462

The internally generated costs and externally purchased costs for Software and Financial Software are approximately 50% internal and 50% external at December 31, 2019 and December 31, 2018. All other categories are almost exclusively internally generated.

### 9. LEASES

The Utility leases industrial land and building space. The lease terms typically run for five years. The right-of-use asset consists of land of \$122,000 and building of \$424,000.

<b>Right-of-use asset</b>	
As at January 1, 2019	\$ 702
Depreciation expense	(156)
As at December 31, 2019	\$ 546
<b>Maturity analysis</b>	
Less than one year	\$ 167
One to five years	423
More than five years	-
<b>Total undiscounted lease liabilities</b>	<b>\$ 590</b>

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 9. LEASES - continued

Lease liabilities	
Lease liabilities	\$ 556
Less current portion	151
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Non-current portion	\$ 405
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Amounts recognized in net income	
Depreciation expense on right-of-use assets	\$ (156);
Interest expense on lease liabilities	\$ (20);
Expense relating to short-term leases	\$ (1,411);

### 10. REGULATORY ACCOUNTS

#### a) Regulatory deferral account debit balances

	Feasibility Studies (i)	IFRS Planning (ii)	Regulatory Costs (iii)	Vegetation Management (iv)	Dam Safety (v)	Uninsured Losses (vi)	Subtotal see next page
<b>Cost:</b>							
At December 31, 2017	\$ 21,855	\$ -	\$ 4,429	\$ 2,216	\$ 148	\$ 1,459	\$ 30,107
Costs incurred	1,091	-	645	-	-	851	2,387
Regulatory provision	-	-	-	-	-	(267)	(267)
Disposals	(69)	-	-	-	-	-	(69)
At December 31, 2018	\$ 22,877	\$ -	\$ 5,074	\$ 2,216	\$ 148	\$ 1,843	\$ 32,158
Costs incurred	1,383	-	1,657	-	-	62	3,102
Regulatory provision	-	-	(883)	-	-	(267)	(1,150)
Disposals	(553)	-	(768)	-	-	-	(1,321)
Contributions received	-	-	(365)	-	-	-	(365)
At December 31, 2019	\$ 23,707	\$ -	\$ 4,715	\$ 2,216	\$ 148	\$ 1,638	\$ 32,424
<b>Accumulated amortization:</b>							
At December 31, 2017	\$ 3,357	\$ -	\$ 596	\$ 222	\$ 30	\$ 212	\$ 4,417
Amortization	1,791	-	405	222	30	212	2,660
Disposals	(69)	-	-	-	-	-	(69)
At December 31, 2018	\$ 5,079	\$ -	\$ 1,001	\$ 444	\$ 60	\$ 424	\$ 7,008
Amortization	1,823	-	465	222	29	212	2,751
Disposals	(36)	-	(243)	-	-	-	(279)
At December 31, 2019	\$ 6,866	\$ -	\$ 1,223	\$ 666	\$ 89	\$ 636	\$ 9,480
<b>Net book value:</b>							
At December 31, 2018	\$ 17,798	\$ -	\$ 4,073	\$ 1,772	\$ 88	\$ 1,419	\$ 25,150
At December 31, 2019	\$ 16,841	\$ -	\$ 3,492	\$ 1,550	\$ 59	\$ 1,002	\$ 22,944
Net increase (decrease) in regulatory deferral account debit balances (which are recognized in the net movement in regulatory deferral account balances related to net income on the Statement of Operations and Other Comprehensive Income):							
December 31, 2018	\$ (700)	\$ -	\$ 240	\$ (222)	\$ (30)	\$ 172	\$ (540)
December 31, 2019	\$ (957)	\$ -	\$ (581)	\$ (222)	\$ (29)	\$ (417)	\$ (2,206)
Remaining recovery years							
At December 31, 2018	1 to 8 years		1 to 35 years	8 years	3 years	Indeterminate	
At December 31, 2019	1 to 7 years		1 to 34 years	7 years	2 years	Indeterminate	
Absent rate regulation, net income for the year and net movement in regulatory deferral account balances on the Statement of Operations and Other Comprehensive Income would increase (decrease) by:							
December 31, 2018	\$ 700	\$ -	\$ (240)	\$ 222	\$ 30	\$ (172)	\$ 540
December 31, 2019	\$ 957	\$ -	\$ 581	\$ 222	\$ 29	\$ 417	\$ 2,206

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 10. REGULATORY ACCOUNTS - continued

	Carry Forward	Deferred Overhauls (vii)	Fuel Price Adjustment (viii)	2017/18 GRA (ix)	Total
<b>Cost:</b>					
At December 31, 2017	\$ 30,107	\$ 2,768	\$ 498	\$ 4,319	\$ 37,692
Costs incurred	2,387	-	-	-	2,387
Regulatory provision	(267)	-	1,321	2,696	3,750
Disposals	(69)	-	-	(1,705)	(1,774)
At December 31, 2018	\$ 32,158	\$ 2,768	\$ 1,819	\$ 5,310	\$ 42,055
Costs incurred	3,102	-	-	-	3,102
Regulatory provision	(1,150)	-	3,760	10,388	12,998
Disposals	(1,321)	-	(3,940)	(3,378)	(8,639)
Contributions received	(365)	-	-	-	(365)
At December 31, 2019	\$ 32,424	\$ 2,768	\$ 1,639	\$ 12,320	\$ 49,151
<b>Accumulated amortization:</b>					
At December 31, 2017	\$ 4,417	\$ 112	\$ -	\$ -	\$ 4,529
Amortization	2,660	147	-	1,705	4,512
Disposals	(69)	-	-	(1,705)	(1,774)
At December 31, 2018	\$ 7,008	\$ 259	\$ -	\$ -	\$ 7,267
Amortization	2,751	424	-	3,378	6,553
Disposals	(279)	-	-	(3,378)	(3,657)
At December 31, 2019	\$ 9,480	\$ 683	\$ -	\$ -	\$ 10,163
<b>Net book value:</b>					
At December 31, 2018	\$ 25,150	\$ 2,509	\$ 1,819	\$ 5,310	\$ 34,788
At December 31, 2019	\$ 22,944	\$ 2,085	\$ 1,639	\$ 12,320	\$ 38,988
Net increase (decrease) in regulatory deferral account debit balances (which are recognized in the net movement in regulatory deferral account balances on the Statement of Operations and Other Comprehensive Income):					
December 31, 2018	\$ (540)	\$ (147)	\$ 1,321	\$ 991	\$ 1,625
December 31, 2019	\$ (2,206)	\$ (424)	\$ (180)	\$ 7,010	\$ 4,200
Remaining recovery years					
At December 31, 2018		3 to 8 years	1 year	1 year	
At December 31, 2019		2 to 7 years	1 year	1 year	
Absent rate regulation, net income for the year and net movement in regulatory deferral account balances on the Statement of Operations and Other Comprehensive Income would increase (decrease) by:					
December 31, 2018	\$ 540	\$ 147	\$ (1,321)	\$ (991)	\$ (1,625)
December 31, 2019	\$ 2,206	\$ 424	\$ 180	\$ (7,010)	\$ (4,200)

#### (i) Feasibility studies and infrastructure planning

The Utility undertakes certain studies to determine the feasibility of a range of projects and infrastructure proposals. While in progress, the costs of these studies are deferred within this account. The Utility is directed to defer and amortize the costs over terms (between five and ten years) at the discretion of the YUB. In the absence of rate regulation, IFRS requires these costs to be expensed as incurred.

#### (ii) IFRS planning

These deferred costs are associated with the conversion from previous GAAP to IFRS and are amortized over a term of five years. In the absence of rate regulation, IFRS requires these costs to be expensed as incurred.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 10. REGULATORY ACCOUNTS - continued

#### (iii) Regulatory costs

These costs are associated with the YUB regulatory proceedings. The costs consist primarily of various rate and project review proceedings but also include resource plans, hearing costs from before 2012 and demand side management costs (consumer energy conservation program). The Utility is directed to defer and amortize the costs over terms at the discretion of the YUB. The regulatory provision for the year reflects an amount transferred of \$883,000 to the regulatory deferral account credit balance class Hearing Reserve (see Note 10(b)(ii)). In the absence of rate regulation, IFRS requires these costs to be expensed as incurred.

#### (iv) Vegetation management

Prior to 2017, the Utility was deferring annual brushing costs in excess of a prescribed maximum annual amount based on a review of prior year brushing costs. In 2017, the Utility established a vegetation management policy and as a result of expected annual costs, deferral is no longer required. The Utility completes a full cycle of all of its brushing requirements every 10 years and is amortizing previously deferred costs over a 10 year period. This change is consistent with the 2017-2018 GRA. Refer to Note 1(b). In the absence of rate regulation, IFRS requires these costs to be expensed as incurred.

#### (v) Dam safety review

The Utility has a program of conducting safety reviews of its dams in accordance with standards set by the Canadian Dam Association. External consultants are hired every five years with intermittent costs incurred in the interim periods. These costs are being amortized over five years. In the absence of rate regulation, IFRS requires these costs to be expensed as incurred.

#### (vi) Uninsured losses

Uninsured losses is an account maintained to address uninsured and uninsurable losses as well as the deductible portion of insured losses. The account is maintained through an annual provision and collected through customer rates. There is an annual regulatory provision of \$267,000 and amortization of the 2016 accumulated balance of \$1,059,000 over five years (\$212,000 per year). This change is consistent with the 2017-2018 GRA. Refer to Note 1(b). In the absence of rate regulation, IFRS requires these costs to be expensed as incurred.

#### (vii) Deferred overhauls

YUB Order 2013-01 restricted inclusion of property, plant and equipment overhaul depreciation expense in rates charged to customers until the Utility comes before the YUB for a prudence review. As such, starting in 2013 the Utility deferred depreciation expense related to overhauls. In 2017, the Utility came before the YUB for a prudence review and began to recognize these deferred depreciation amounts. In the absence of rate regulation, IFRS requires these costs to be expensed as incurred.

#### (viii) Fuel price adjustment

OIC 1995/90 directs the YUB to permit the Utility to adjust electricity rates to reflect fluctuations in the price of diesel fuel. The amount by which actual fuel prices vary from the long-term average prices is deferred and recovered from or refunded to customers in a future period. In 2017 the Utility updated the long-term average cost to better reflect current market conditions. This change is consistent with the 2017-2018 GRA. Refer to Note 1(b). As part of the 2017-18 GRA, the balance as at June 30, 2019 of \$3,940,000 was transferred to the regulatory deferral account debit balance class 2017/18 GRA (see Note 10(a)(ix)). In the absence of rate regulation, IFRS requires these costs to be expensed as incurred.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 10. REGULATORY ACCOUNTS - continued

#### (ix) 2017/18 GRA

The Utility recognizes a regulatory deferral account debit balance when the Utility has the right, as a result of the actual or expected actions of the rate regulator, to increase rates in future periods in order to recover its allowable costs plus return on rate base, as described in Note 1(b). The amount recognized represents the amount approved by the YUB in November 2019, less amounts received from customers during the year. The ending balance at December 31, 2019 comprises the Utility's remaining revenue shortfall and the amount transferred from the regulatory deferral account debit balance class Fuel Price Adjustment (see Note 10(a)(viii)) during the year to be collected from customers in future years. This change is consistent with the 2017-2018 GRA. Refer to Notes 1(b) and 4.

#### (x) Deferred gains and losses

Deferred gains and losses represent amounts from disposals of property, plant and equipment that have or will be submitted for approval by the YUB to be deferred. There are no deferred gains or losses during any of the reporting years.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 10. REGULATORY ACCOUNTS - continued

#### b) Regulatory deferral account credit balances

	Deferred Insurance Proceeds (i)	Hearing Reserve (ii)	Low Water Reserve Fund (iii)	Future Removal and Site Restoration (iv)	Contracts with Customers (v)	Total
<b>Cost:</b>						
At December 31, 2017	\$ 11,602	\$ 1,220	\$ 8,742	\$ 4,303	\$ 4,153	\$ 30,020
Cost incurred	-	(155)	(893)	(339)	-	(1,387)
Regulatory provision	-	250	(2,033)	-	471	(1,312)
Cash received	-	-	77	-	-	77
Cash refunded	-	-	(2,875)	-	-	(2,875)
At December 31, 2018	\$ 11,602	\$ 1,315	\$ 3,018	\$ 3,964	\$ 4,624	\$ 24,523
Cost incurred	-	-	(4,038)	(1,173)	-	(5,211)
Regulatory provision	-	(633)	-	-	471	(162)
Cash received	-	-	11	-	-	11
Cash refunded	-	-	(1,004)	-	-	(1,004)
At December 31, 2019	\$ 11,602	\$ 682	\$ (2,013)	\$ 2,791	\$ 5,095	\$ 18,157
<b>Accumulated amortization:</b>						
At December 31, 2017	\$ 6,637	\$ 194	\$ -	\$ -	\$ -	\$ 6,831
Amortization	262	194	-	-	-	456
Disposals	-	-	-	-	-	-
At December 31, 2018	\$ 6,899	\$ 388	\$ -	\$ -	\$ -	\$ 7,287
Amortization	263	195	-	-	-	458
Disposals	-	-	-	-	-	-
At December 31, 2019	\$ 7,162	\$ 583	\$ -	\$ -	\$ -	\$ 7,745
<b>Net book value:</b>						
At December 31, 2018	\$ 4,703	\$ 927	\$ 3,018	\$ 3,964	\$ 4,624	\$ 17,236
At December 31, 2019	\$ 4,440	\$ 99	\$ (2,013)	\$ 2,791	\$ 5,095	\$ 10,412
Net (increase) decrease in regulatory deferral account credit balances (which are recognized in the net movement of regulatory deferral account balances related to net income on the Statement of Operations and Other Comprehensive Income):						
December 31, 2018	\$ 262	\$ 99	\$ 5,724	\$ 339	\$ (471)	\$ 5,953
December 31, 2019	\$ 263	\$ 828	\$ 5,031	\$ 1,173	\$ (471)	\$ 6,824
<b>Remaining recovery years</b>						
At December 31 2018	18 years	Indeterminate	Indeterminate	Indeterminate	49 years	
At December 31, 2109	17 years	Indeterminate	Indeterminate	Indeterminate	48 years	
Absent rate regulation, net income for the year end and net movement in regulatory deferral account balances on the Statement of Operations and Other Comprehensive Income would increase (decrease) by:						
December 31, 2018	\$ (262)	\$ (99)	\$ (5,724)	\$ (339)	\$ 471	\$ (5,953)
December 31, 2019	\$ (263)	\$ (828)	\$ (5,031)	\$ (1,173)	\$ 471	\$ (6,824)

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 10. REGULATORY ACCOUNTS - continued

#### (i) Deferred insurance proceeds

The deferred insurance proceeds represents a gain on fire insurance proceeds related to a fire at the Whitehorse Rapids Generating Station in 1997 which is being amortized to income at the same rate as depreciation of the related replacement assets. In the absence of rate regulation, IFRS requires the gain to have been fully recognized as income in the year received.

#### (ii) Hearing reserve

The Utility has established a deferral account for future regulatory hearing costs. In 2017 the Utility adjusted the annual provision and recognition of the accumulated balance to more accurately reflect expected hearing costs. This change is consistent with the 2017-2018 GRA. Refer to Note 1(b). The regulatory provision for the year reflects an annual provision of \$250,000 less \$883,000 of costs transferred from the regulatory deferral account debit balance class Regulatory Costs (see Note 10(a)(iii)). In the absence of rate regulation, IFRS requires these costs to be expensed as incurred.

#### (iii) Low Water Reserve Fund

The Low Water Reserve Account ("LWRF") was established by YUB Order 2018-10. The LWRF is used to protect the Utility and ratepayers for costs associated with variability in thermal generation required when there is a thermal cost variance due solely to water-related hydro generation variances from YUB approved GRA forecasts. YUB Order 2019-08 amended how the LWRF is calculated. As a result, the costs incurred for the year of \$4,038,000 reflect a decrease of \$360,000 from the amount previously recognized as at December 31, 2018.

The LWRF attracts interest based upon short/intermediate term bond rates. Any negative balance attracts interest at the lowest short-term bond rates available to the Utility through its line of credit. The Utility is required to file quarterly reports with the YUB on the LWRF's activity.

In accordance with YUB Order 2015-01, the Utility defers recognition of the additional amounts collected from rate payers when the cost of thermal consumed in the period is less than the long-term average thermal requirements estimated for the actual annual generation load. These deferred amounts are recognized as revenue in the period when the cost of thermal incurred for the period is greater than the long-term average thermal requirements and the reason for the shortfall is a shortage of water in the hydro system. The YUB has set a cap of +/- \$8 million for the LWRF. If the balance falls outside of this range, the Utility is to make an application to the YUB requesting recovery or a refund to customers. In accordance with YUB Order 2015-06, the Utility was providing a refund to the customers of 0.68 cents/kWh effective September 1, 2015. YUB Order 2019-02 set the refund rider to 0.00 cents/kWh effective April 1, 2019.

In the absence of rate regulation, IFRS would require any amounts earned or incurred related to the LWRF to be included in the Utility's net income in the year incurred.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 10. REGULATORY ACCOUNTS - continued

#### (iv) Future removal and site restoration costs

The Utility maintains a regulatory provision for future removal and site restoration related to property, plant and equipment, which is incremental to that required to be recognized as an asset retirement provision under IAS 37. The reserve has been established through amortization rates based upon depreciation studies conducted periodically by the Utility. As a result of YUB Order 2005-12, effective January 1, 2005, the provision is not to exceed the cumulative value of the provision at December 31, 2004 of \$5,757,000.

Costs of dismantling capital assets, including site remediation, will be applied to this regulatory deferral account credit balance if they do not otherwise relate to an asset retirement provision. The period over which the provision will be reduced is dependent on the timing of future costs of demolishing, dismantling, tearing down, site restoration or otherwise disposing of the asset net of actual recoveries, and is therefore indeterminate. In the absence of rate regulation, IFRS requires these costs to be expensed or included in the gain or loss on disposal of the related property, plant and equipment, as applicable.

#### (v) Contracts with customers

Effective January 1, 2018 the Utility adopted IFRS 15, *Revenue from Contracts with Customers*. As a result of the impacts of IFRS 15, certain revenues are recognized in net income over a shorter period than allowed by the YUB for rate-setting purposes. The timing difference is reflected as a regulatory deferral account credit balance.

#### (c) Regulatory account expenses

Regulatory account expenses represent costs incurred related to regulatory account debit balances of \$3,102,000 (2018 - \$2,387,000) and regulatory account credit balances of \$5,211,000 (2018 - \$1,387,000).

#### (d) Net movement in regulatory deferral account balances related to net income

Net movement in regulatory deferral account balances related to net income is \$11,024,000 (2018 - \$7,577,000) represents the adjustment to net income for the year before net movement in regulatory deferral account balances for the effects of rate regulation in accordance with IFRS 14. The net movement figure of \$11,024,000 is comprised of an increase of \$4,200,000 for regulatory account debit balances and a decrease of \$6,824,000 for regulatory account credit balances for rate regulation compared to the amounts that are recognized under IFRS. The net movement figure of \$7,577,000 for 2018 is comprised of an increase of \$1,625,000 for regulatory account debit balances and \$5,953,000 decrease for regulatory account credit balances respectively for rate regulation compared to the amounts that would be recorded under IFRS absent rate regulation.

## Yukon Energy Corporation

### Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

#### 11. BANK INDEBTEDNESS

The line of credit accrues interest on withdrawals at prime rate minus 0.75% per annum. Refer to the interest rate risk section within Note 25.

#### 12. ACCOUNTS PAYABLE AND ACCRUED LIABILITIES

	December 31 2019	December 31 2018
Trade payables	\$ 8,523	\$ 9,105
Employee compensation	794	955
Due to related parties (Note 21)	699	835
Other	225	193
	<b>\$ 10,241</b>	<b>\$ 11,088</b>

#### 13. CONSTRUCTION FINANCING

	December 31 2019	December 31 2018
Construction financing, due December 31, 2019 bearing interest at 2.74% approved to a maximum of \$8.4 million	\$ -	\$ 8,400
Construction financing, due December 31, 2019 bearing interest at 2.74% approved to a maximum of \$14 million	-	13,985
Construction financing, due December 11, 2020 bearing interest at 2.32% approved to a maximum of \$4.0 million	3,959	-
Construction financing, due December 31, 2020 bearing interest at 2.36% approved to a maximum of \$8.4 million	8,400	-
Construction financing, due December 31, 2020 bearing interest at 2.36% approved to a maximum of \$14 million	13,985	-
	<b>\$ 26,344</b>	<b>\$ 22,385</b>

Construction financing balances are monies advanced from the Parent to assist in the development of the Utility's infrastructure. Interest is payable annually at December 31 and at the maturity date.

During the year the Utility did not make any principal repayments. Prior year debt was extinguished and replaced with new debt with no impact on cash flows. New financing of \$3,959,000 was received during 2019.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 14. LONG-TERM DEBT

The Utility's long-term debt is summarized as follows:

	December 31 2019	December 31 2018
<b>Yukon Development Corporation</b>		
\$92,458,473 term note bearing interest at 2.40% repayable in annual installments of \$3,683,800 principal, plus accrued interest with the balance of \$77,723,273 due December 31, 2019	\$ -	\$ 77,723
\$21,900,000 flexible term note bearing interest up to 5.46% repayable in annual installments of \$336,923 principal, plus accrued interest with the balance of \$8,423,078 due December 31, 2051 (i)	19,205	19,880
\$5,505,000 term note bearing interest at 2.40% interest only payable annually, due December 31, 2039	5,505	5,505
\$20,984,404 term note bearing interest at 2.21% repayable in annual installments of \$839,376 principal, plus accrued interest with the balance due December 31, 2040	17,627	18,466
\$12,136,000 term note bearing interest at 2.10% interest only payable annually, due December 31, 2041	12,136	12,136
\$2,871,000 term note bearing interest at 2.90% interest only payable monthly, due June 30, 2044	2,871	-
\$77,723,273 term note bearing interest at 2.68% repayable in annual installments of \$3,683,800 principal, plus accrued interest with the balance of \$59,304,273 due December 31, 2024	74,039	-
<b>TD Bank</b>		
The Utility entered into an interest rate swap to convert the interest rate on the Bankers' Acceptances amounts from a variable interest rate based on the Bankers' Acceptances rates to a fixed rate of 2.69% per annum. Payable in monthly installments of \$50,407 interest and principal with the balance due on December 28, 2022 (ii)	8,623	8,991
The Utility entered into an interest rate swap to convert the interest rate on the Bankers' Acceptance amounts from a variable interest rate based on the Bankers' Acceptance rates to a fixed rate of 3.67% per annum. Payable in monthly installments of \$120,246 interest and principal with the balance due on August 23, 2038 (iii)	22,811	23,406
The Utility entered into an interest rate swap to convert the interest rate on the Bankers' Acceptance amounts from a variable interest rate based on the Bankers' Acceptance rates to a fixed rate of 2.90% per annum. Payable in monthly installments of \$31,726 interest and principal with the balance due on July 14, 2039 (iv)	6,688	-
<b>Carmacks Stewart First Nation Liability</b>		
Long-term liability payable to several First Nations related to the building of the Carmacks Stewart Transmission Line. These are non-interest bearing, repayable in varying installments, due in 2028	151	161
	169,656	166,268
Less current portion	6,054	80,210
	<b>\$ 163,602</b>	<b>\$ 86,058</b>

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 14. LONG-TERM DEBT - continued

(i) **\$21,900,000 Flexible Term Note**

The terms of the flexible term note provide for a maximum amount of interest payable within a calendar year, calculated based on the actual grid generation on the electrical grid system connected with the Mayo Hydro Enhancement Project. The amount of interest payable as a result of the interest rate exceeding the maximum interest payable will abate forever. The actual interest rate on this flexible note was 3.53% (2018 - 3.88%).

(ii) **TD Bank Loan and 2.69% Interest Rate Swap**

On December 28, 2012, the Utility entered into a loan and interest rate swap with TD Bank to arrange financing for the purpose of continuing to develop the electrical infrastructure in the Yukon. The interest rate swap matures December 28, 2022.

(iii) **TD Bank Loan and 3.67% Interest Rate Swap**

On August 23, 2018, the Utility entered into a loan and interest rate swap with TD Bank to arrange financing for the purpose of continuing to develop the electrical infrastructure in the Yukon. The interest rate swap matures August 23, 2038.

(iv) **TD Bank Loan and 2.90% Interest Rate Swap**

On July 15, 2019, the Utility entered into a loan and interest rate swap with TD Bank to arrange financing for the purpose of continuing to develop the electrical infrastructure in the Yukon. The interest rate swap matures July 14, 2039.

#### Long-term debt repayment

Scheduled repayments for all long-term debt are as follows:

2020	6,061
2021	6,089
2022	13,590
2023	5,763
2024	61,415
Thereafter	76,738

**\$ 169,656**

The change in long-term debt arising from financing activities during the year related to principal repayments of \$6,248,000 and the issuance of additional debt in the amount of \$9,636,000. The Utility renegotiated the \$77,723,000 note with the parent with terms based on market conditions at the time of renewal.

#### Fair value

The fair value of long-term debt at December 31, 2019 is \$165,800,000 (2018 - \$163,000,000). The fair value for all long-term debt including current portions was estimated using discounted cash flows based on an estimate of the Utility's current borrowing rate for similar borrowing arrangements.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 15. POST-EMPLOYMENT BENEFITS

#### Characteristics of benefit plans

The Utility sponsors a defined benefit pension plan for employees joining the Utility before January 1, 2002. The Utility also sponsors an executive defined benefit pension plan and supplemental executive retirement plan for a former executive. Benefits provided are calculated based on length of pensionable service, pensionable salary at retirement age and negotiated rates.

Employees joining the Utility after January 1, 2002 are not eligible to participate in the employee defined benefit pension plan. The Utility makes contributions to a Registered Retirement Savings Plan ("RRSP") on behalf of these employees and employees hired before January 1, 2002 who belonged to the employee defined benefit plan and elected to opt out of that plan. The RRSP is a defined contribution retirement plan. The costs recognized for the period are equal to the Utility's contribution to the plan. During 2019, these were \$418,000 (2018 - \$499,000).

The defined benefit pension plan for employees is regulated by the Office of the Superintendent of Financial Institutions ("OSFI") through the *Pension Benefits Standards Act* and regulations. This Act and accompanying regulations impose, among other things, minimum funding requirements. The executive defined benefit pension plan and supplemental executive retirement plan are not registered with OSFI and are not subject to minimum funding requirements of the Act.

These minimum funding requirements require the Utility make special payments as prescribed by the OSFI to repay any unfunded liability or deficit that may exist. For the employee defined benefit pension plan the Utility is required to pay \$184,300 as a minimum annual payment during years 2020-2026, reducing to \$38,000 for 2027, \$49,300 per year during years 2028-2031, \$61,000 for 2032 and \$36,000 for 2033 (2018 - \$148,300 as a minimum annual payment during years 2018-2027, reducing to \$110,300 for 2028, and further reducing to \$61,000 per year during years 2029-2032).

A committee of the Utility's Board of Directors oversees these plans and is responsible for the investment policy with regard to the assets of these funds.

#### Risks associated with defined benefit plans

The defined benefit pension plans expose the Utility to risk such as investment risk and actuarial risk. Investment risk is the risk that the assets invested will be insufficient to meet expected benefits. Actuarial risk is the risk that benefits paid will be more than expected. There are no particular unusual, entity-specific or plan-specific risks or any significant concentration of risk.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 15. POST-EMPLOYMENT BENEFITS - continued

#### Net defined benefit liability

	December 31 2019	December 31 2018
<b>Present value of benefit obligations</b>		
Balance, beginning of year	\$ 23,499	\$ 24,775
Employee contributions	51	73
Current service cost	313	403
Interest cost	915	847
Benefits paid	(758)	(680)
Actuarial losses (gains) on experience	853	(235)
Actuarial losses on demographic assumptions	-	215
Actuarial losses (gains) on financial assumptions	3,202	(1,899)
Balance, end of year	\$ 28,075	\$ 23,499
<b>Fair value of plan assets</b>		
Balance, beginning of year	17,731	18,659
Interest income on plan assets	687	632
Gains (losses) on plan assets	2,196	(1,369)
Employee contributions	51	74
Employer contributions	544	438
Benefits paid	(758)	(643)
Administrative costs	(65)	(60)
Balance, end of year	\$ 20,386	\$ 17,731
Net defined benefit liability	\$ 7,689	\$ 5,768

#### Components of benefit plan cost:

	December 31 2019	December 31 2018
Current service cost	\$ 313	\$ 403
Interest cost	915	847
Interest income on plan assets	(687)	(632)
Administrative costs	65	60
Defined benefit expense in Statement of Operations	606	678
Defined contribution expense	418	499
Total benefit expense in Statement of Operations	\$ 1,024	\$ 1,177
Actuarial losses (gains) on obligation	4,055	(1,919)
(Gains) losses on plan assets	(2,196)	1,369
Total re-measurements included in Other Comprehensive Income	\$ 1,859	\$ (550)
Total benefit costs recognized in Statement of Operations and Other Comprehensive Income	\$ 2,883	\$ 627

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

### December 31 2019

#### 15. POST-EMPLOYMENT BENEFITS - continued

##### Distribution of plan assets of defined benefit pension plans

The fair value of the defined benefit pension plans' assets are based on market values as reported by the defined benefit pension plans' custodians as at each applicable Statement of Financial Position date. The distribution of assets by major asset class is as follows:

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
Equities	50.9%	48.6%
Fixed income securities	39.1%	40.9%
Real estate	10.0%	10.5%

##### Significant assumptions:

	<u>December 31, 2019</u>	<u>December 31, 2018</u>
Discount rate - accrued benefit obligation	3.10%	3.90%
Assumed rate of salary escalation	2.80%	2.80%
Pension growth	2.00%	2.00%

##### Sensitivity analysis of the defined benefit pension plans:

The sensitivities of each key assumption used in measuring accrued benefit obligations at each Statement of Financial Position date have been calculated independently of changes in other key assumptions. Actual experience may result in changes in a number of assumptions simultaneously. The sensitivity analysis has been determined based on reasonably possible changes of the respective assumptions occurring at the end of the reporting period. The mortality assumptions are based on the 2014 Canadian Pensioner Mortality Private Table projected with full generational mortality improvements using scale MI-2017.

Assumptions and sensitivity to the recognized post-employment benefits liability balance at December 31, 2019

Assumption	+1%	-1%	+1%	-1%
Discount rate	-13.95%	17.69%	\$ (3,918)	\$ 4,966
Salary growth	1.04%	-0.99%	278	(265)
Pension growth	15.74%	-12.90%	4,200	(3,442)
Life expectancy (1 year movement)	2.74%	-2.77%	770	(777)

Assumptions and sensitivity to the recognized post-employment benefits liability balance at December 31, 2018

Assumption	+1%	-1%	+1%	-1%
Discount rate	-13.39%	16.97%	\$ (3,146)	\$ 3,988
Salary growth	1.58%	-1.41%	351	(313)
Pension growth	14.80%	-12.13%	3,287	(2,694)
Life expectancy (1 year movement)	2.51%	-2.45%	589	(575)

The sensitivity analysis presented above may not be representative of the actual change in the defined benefit obligation as it is unlikely that the change in assumptions would occur in isolation of one another as some of the assumptions may be correlated.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 15. POST-EMPLOYMENT BENEFITS - continued

Furthermore, in presenting the above sensitivity analysis, the present value of the defined benefit obligation has been calculated using the projected unit credit method at the end of the reporting period, which is the same that is applied in calculating the defined benefit obligation liability recognized in the Statement of Financial Position.

The Utility pays the balance of the cost of the employee benefit plan over the employee contributions, as determined by the actuary. Members are required to contribute 3.5% of earnings up to the Year's Maximum Pensionable Earnings ("YMPE") plus 5% of earnings above the YMPE. Permanent part-time members will have required contributions as above multiplied by their permanent part-time service ratio. Employees can make additional contributions to purchase ancillary benefits. Members choose the ancillary benefit on termination of service or on retirement.

The average duration of the benefit obligation is 16.0 years (2018 - 16.0 years). The Utility expects to make payments of \$718,600 (2018 - \$606,000) to the defined benefit plans during the next financial year.

### 16. CONTRIBUTIONS IN AID OF CONSTRUCTION

	Government of Canada	Parent since 1998	Yukon Government since 1998	Pre-1998 contributions	Total
<b>Cost:</b>					
At January 1, 2018	\$ 71,000	\$ 91,810	\$ 11,391	\$ 1,739	\$ 175,940
Additions	-	-	79	-	79
Disposals	-	(2,080)	-	-	(2,080)
At December 31, 2018	\$ 71,000	\$ 89,730	\$ 11,470	\$ 1,739	\$ 173,939
Additions	299	-	228	-	527
At December 31, 2019	\$ 71,299	\$ 89,730	\$ 11,698	\$ 1,739	\$ 174,466
<b>Accumulated amortization:</b>					
At January 1, 2018	\$ 6,020	\$ 11,203	\$ 2,049	\$ 1,379	\$ 20,651
Amortization	991	1,662	220	43	2,916
Disposals	-	(1,422)	-	-	(1,422)
At December 31, 2018	\$ 7,011	\$ 11,443	\$ 2,269	\$ 1,422	\$ 22,145
Amortization	991	1,604	222	43	2,860
At December 31, 2019	8,002	13,047	2,491	1,465	25,005
<b>Net book value:</b>					
At December 31, 2018	\$ 63,989	\$ 78,287	\$ 9,201	\$ 317	\$ 151,794
At December 31, 2019	\$ 63,297	\$ 76,683	\$ 9,207	\$ 274	\$ 149,461

## Yukon Energy Corporation

### Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

#### December 31 2019

#### 17. DEFERRED REVENUE

	Customer Contributions	Decommissioning Fund	Total
At January 1, 2018	\$ 9,546	\$ 2,665	\$ 12,211
Additions	1,304	48	1,352
Revenue recognized in Sales of Power (Note 18)	(1,669)	-	(1,669)
At December 31, 2018	\$ 9,181	\$ 2,713	\$ 11,894
Additions	11,055	56	11,111
Revenue recognized in Sales of Power	(2,350)	-	(2,350)
At December 31, 2019	\$ 17,886	\$ 2,769	\$ 20,655

Customer contributions represent monies paid or assets contributed by customers for connection to the grid. The contributions are recognized into revenue when the performance obligation is satisfied. Additions during 2019 include assets contributed valued at \$10,345,000, received as part of a power purchase agreement.

The decommissioning fund represents monies paid in advance by an industrial customer to decommission the spur line that connects its operation to the Utility's grid. Under a power purchase agreement, the customer has the financial responsibility for decommissioning activities to be performed by the Utility on its behalf. Any amounts not required for decommissioning will be refunded to the customer. This money accrues interest at the rate equal to the three month Canadian Dealer Offered Rate ("CDOR"). This amount will be recognized to revenue when uncertainty associated with its recognition is satisfied.

#### 18. SALES OF POWER

	2019	2018
Wholesale	\$ 34,520	\$ 32,911
Industrial	6,958	6,894
General service	6,065	5,359
Residential	2,840	2,700
Sentinel and street lights	106	108
Secondary sales	-	19
	\$ 50,489	\$ 47,991

## Yukon Energy Corporation

### Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

#### 19. OPERATIONS AND MAINTENANCE EXPENSES

	2019	2018
Fuel	\$ 10,331	\$ 6,309
Regulatory account expenses (Note 10 (c))	8,313	3,774
Wages and benefits	6,030	6,234
Contractors	2,563	2,706
Materials and consumables	2,161	1,400
Rent	1,547	1,332
Loss on asset disposal	1,337	1,177
Travel	369	480
Communication	74	75
	<b>\$ 32,725</b>	<b>\$ 23,487</b>

#### 20. ADMINISTRATION EXPENSES

	2019	2018
Wages and benefits	\$ 5,835	\$ 6,050
Insurance and taxes	1,883	1,807
Materials, consumables and general	1,849	1,596
External labour	1,440	1,452
Licences and fees	674	599
Travel	224	197
Board fees	92	100
	<b>\$ 11,997</b>	<b>\$ 11,801</b>

#### 21. RELATED PARTY TRANSACTIONS

The Utility is related in terms of common ownership to all YG departments, agencies and Territorial Corporations. Transactions are entered into in the normal course of operations with these entities. All sales of power transactions are recorded at the rates approved by the YUB.

Interim Electrical Rebate program revenues are received from YDC in accordance with terms established by YG which established the program to protect certain ratepayers. These revenues are included in sales of power on the Statement of Operations and Other Comprehensive Income.

## Yukon Energy Corporation

### Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

#### 21. RELATED PARTY TRANSACTIONS - continued

The following table summarizes the Utility's related party transactions with YDC for the year:

	2019	2018
<b>Revenue</b>		
Sales of service	\$ 4	\$ 4
Rate subsidy	283	298
<b>Operating expenses</b>		
Interest expense	\$ 4,010	\$ 4,017
<b>Dividend paid</b>	\$ 2,871	\$ -
<b>Other receipts</b>		
Construction financing	3,959	-
Long-term debt	2,871	-
<b>Other payments</b>		
Repayment of long-term debt	\$ 5,197	\$ 4,522

During the year, the Utility refinanced its construction financing (Note 13).

At the end of the year, the amounts receivable from and due to related parties are as follows:

	December 31 2019	December 31 2018
<b>YDC</b>		
Accounts receivable	\$ 370	\$ 28
Accounts payable	695	769
Construction financing	26,344	22,385
Current portion of long-term debt	4,860	79,238
Long-term debt	126,523	54,472
<b>YG</b>		
Accounts receivable	\$ 152	\$ 4
Accounts payable	4	66

These balances are non-interest bearing and payable on demand except for construction financing and long-term debt.

#### Transactions with Key Management Personnel

The Utility's key management personnel include members of the senior management team and the Board of Directors, a total of 18 individuals (2018 - 17 individuals). Key management personnel compensation is as follows:

Year ended December 31	2019	2018
Short-term employee benefits	\$ 1,423	\$ 1,567
Post-employment benefits	161	159
	\$ 1,584	\$ 1,726

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 22. COMMITMENTS

#### **Aishihik water licence**

The Yukon Water Board issued a water use licence in 2002, valid until December 31, 2019, for the Utility's Aishihik Lake facility. In addition to maintaining a minimum and maximum water level, this licence commits the Utility to meet a number of future requirements including annual fish monitoring programs. Due to outstanding issues with affected stakeholders, the Utility was unable to secure a long term renewal of the licence prior to expiry. During 2019, a two month extension was granted and then, in order to ensure continued generation from this plant, the Utility made application for a short term (three year) renewal to the existing licence. This application was approved and a renewed licence was granted by the YWB effective March 1, 2020. This short term licence includes additional monitoring and potential operational adjustments, the cost of which will be charged to the fiscal year in which they occur. The Utility continues to work with affected parties with the objective of a longer term licence agreement prior to the expiry of the extension.

Fish monitoring programs are also required under an authorization provided by the federal government Department of Fisheries and Oceans, which is valid until December 31, 2022. The costs of meeting these requirements are accounted for as water licence costs in the year they are paid.

#### **Contractual obligations**

The Utility has entered into contracts to purchase products or services for which the liability has not been incurred as at December 31, 2019 as the product or service had not been provided. The total commitments at year end are \$8,761,000 (2018 - \$2,935,000).

### 23. CONTINGENCIES

#### **Aishihik Third Turbine Project**

This project was commissioned into service in December 2011. On March 2, 2012, the general contractor filed a claim with the Supreme Court of Yukon for \$4,000,000 plus interest and costs alleging the Utility has not paid for work performed. During 2017, the Yukon Supreme Court issued an award in favor of the contractor. The Utility successfully appealed the award in 2018. A re-trial was held in November 2019; the decision of the judge on this proceeding is outstanding. The matter is still before the courts. Legal costs are being expensed as incurred. The outcome of the court process is not determinable at this time and no estimate of settlement has been recognized in the financial statements.

#### **Asset Retirement Obligations**

The Utility has not recognized a provision for the closure and restoration obligations for certain generation, transmission and distribution assets which the Utility anticipates maintaining and operating for an indefinite period, making the date of retirement of these assets indeterminate. These significant uncertainties around the timing of any potential future cash outflows are such that a reliable estimate of the liability is not possible at this time. A provision will be recognized when the timing of the retirement of these assets can be reasonably estimated.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

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December 31 2019

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### 24. PROVISION FOR ENVIRONMENTAL LIABILITIES

The Utility's activities are subject to various federal and territorial laws and regulations governing the protection of the environment or to minimize any adverse impact thereon. The Utility conducts its operations so as to protect public health and the environment and believes its operations are materially in compliance with all applicable laws and regulations.

The Utility has conducted environmental site assessments at all its diesel plant sites. At sites where environmental contamination was found and a legal obligation to remediate the site existed, the Utility has conducted a full remediation. As at December 31, 2019 no new provisions for environmental liabilities, for which a legal obligation exists to remediate, have been identified by the Utility. The Utility will continue to use its Environmental Management System to monitor and assess previous and potential existing environmental liabilities on an ongoing basis. The Utility does not have a provision for environmental liabilities as there is no present obligation to remediate.

### 25. RISK MANAGEMENT AND FINANCIAL INSTRUMENTS

At December 31, 2019, the Utility's financial instruments included cash, accounts receivable, accounts payable and accrued liabilities, construction financing, long-term debt and interest rate swaps. The fair values of cash, accounts receivable, accounts payable and accrued liabilities and construction financing approximate their carrying values due to the immediate or short-term maturity of these financial instruments.

The long-term debt is accounted for at amortized cost using the effective interest rate method. The fair value of the long-term debt is estimated by discounting the future cash flows using current rates for debt instruments subject to similar risks and maturities as disclosed in Note 14.

Interest rate swaps are financial contracts that derive their value from changes in an underlying variable. The fair value of the interest rate swaps is estimated using standard market valuation techniques and is provided to the Utility by the financial institution that is the counterparty to the transactions.

#### Interest rate risk

Interest rate risk is the risk that future cash flows or fair value of a financial instrument will fluctuate due to changes in market interest rates. The Utility's future cash flows are not exposed to significant interest rate risk due to its long-term debt having fixed interest rates, with the exception of the Bankers' Acceptances from the TD Bank. The Bankers' Acceptances have had the variable rate converted to a fixed rate using an interest rate swap to eliminate the interest rate risk.

As at December 31, 2019, the Utility had three interest rate swap agreement in place. The first agreement has a notional principal amount of \$8.6 million (2018 - \$9.0 million) and the agreement effectively changes the Utility's interest rate exposure on this notional amount from a floating rate to a fixed rate of 2.69%. The second agreement has a notional principal amount of \$22.8 million (2018 - \$23.4 million) and the agreement effectively changes the Utility's interest rate exposure on the notional amount from a floating rate to a fixed rate of 3.67%. The third agreement has a notional principal amount of \$6.7 million (2018 - \$0) and the agreement effectively changes the Utility's interest rate exposure on the notional amount from a floating rate to a fixed rate of 2.90%.

The fair value of the interest rate swap agreement on December 31, 2019 was a liability of \$1,930,000 (2018 - \$1,042,000). The decrease in the fair value in 2019 of \$888,000 (2018 - \$986,000) is recognized on the Statement of Operations and Other Comprehensive Income as an unrealized loss. A 100 basis point increase or decrease in the interest rate assumption would have resulted in an increase/decrease in the interest rate swap agreements fair value of \$3,534,000 (2018 - \$2,911,000).

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 25. RISK MANAGEMENT AND FINANCIAL INSTRUMENTS - continued

#### Interest rate risk - continued

The Utility has access to a \$10 million line of credit. Effective June 6, 2019, the line of credit was increased temporarily to \$26.5 million. The temporary increase expires May 31, 2020. The account accrues interest on withdrawals at prime rate minus 0.75% per annum. By agreement the financial institution has a legally enforceable right to set off the outstanding balance under the line of credit by cash balances in other accounts with the same bank. The amount outstanding on the line of credit balance at year end was \$22.5 million (2018 - \$2.4 million). The Utility has cash balances with the same financial institution of \$2.9 million (2018 - \$2.9 million). Due to the short-term nature of the amount drawn on the line of credit and the Utility's cash balances with the same financial institution, the interest rate risk is minimal.

#### Credit risk

Credit risk is the risk of failure of a debtor or counterparty to honour its contractual obligations resulting in financial loss to the Utility.

The following table illustrates the maximum credit exposure to the Utility if all counterparties defaulted:

	December 31 2019	December 31 2018
Cash	\$ 521	\$ 581
Accounts receivable	10,317	6,873
	\$ 10,838	\$ 7,454

Credit risk on cash is considered minimal as the Utility's cash deposits are held by a Canadian Schedule 1 Chartered bank.

Credit risk on accounts receivable is considered minimal as the Utility has experienced insignificant bad debt in prior years. In addition, its primary customer is a rate regulated utility that purchases power from the Utility for resale and as such these receivables are considered fully collectible. Included in the accounts receivable past due but not impaired at December 31, 2019 are \$1,680,000 (2018 - \$681,000) which management believes will be received in full.

#### Liquidity risk

Liquidity risk is the risk that the Utility will not be able to meet its financial obligations as they fall due. The Utility manages liquidity risk through regular monitoring of cash and currency requirements by preparing cash flow forecasts to identify financing requirements. The Utility's approach to managing liquidity is to ensure, as far as possible, that it will always have sufficient liquidity to meet its liabilities when due, under both normal and stressed conditions, without incurring unacceptable losses or risking damage to the Utility's reputation.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 25. RISK MANAGEMENT AND FINANCIAL INSTRUMENTS - continued

#### Liquidity risk - continued

The Utility's largest current liability is current portion of long-term debt which is predominantly due to the Parent. In addition, rate regulation assists the Utility with liquidity management by providing consistent revenues and a consistent debt to equity ratio.

#### Fair values

The following table illustrates the fair value hierarchy of the Utility's financial instruments as at December 31, 2019:

	Quoted prices in active markets (Level 1)	Other observable inputs (Level 2)	Unobservable inputs (Level 3)	Total
Derivative related liability	-	\$1,930	-	\$1,930
Long-term debt	-	-	\$165,800	\$165,800

The following table illustrates the fair value hierarchy of the Utility's financial instruments as at December 31, 2018:

	Quoted prices in active markets (Level 1)	Other observable inputs (Level 2)	Unobservable inputs (Level 3)	Total
Derivative related liability	-	\$1,042	-	\$1,042
Long-term debt	-	-	\$166,000	\$166,000

### 26. CAPITAL MANAGEMENT

The Utility's capital is its shareholder's equity which is comprised of share capital, contributed surplus and retained earnings. The Utility manages its equity by managing revenues, expenses, assets and liabilities to ensure the Utility effectively achieves its objectives while remaining a going concern.

The Utility has a policy which defines its capital structure at a ratio of 60% debt and 40% equity. This policy has been reviewed and accepted by the YUB.

The Utility monitors its capital on the basis of the ratio of total debt to total capitalization. Debt is calculated as total borrowings, which is comprised of long-term debt, including the portion of long-term debt due within one year, as well as the decommissioning fund (Note 17). Short-term debt related to assets under construction at the Statement of Financial Position date is excluded from the calculation of total debt, as the assets are similarly excluded from the determination of rate base. Total capitalization is calculated as total debt plus total shareholder's equity as shown on the Statement of Financial Position. The Utility maintains a balance in retained earnings as an indicator of the Utility's equity position.

# Yukon Energy Corporation

## Notes to Financial Statements

(tabular amounts in thousands of Canadian dollars)

December 31 2019

### 26. CAPITAL MANAGEMENT - continued

The table below summarizes the Utility's total debt to total capitalization position:

	December 31	
	2019	2018
Long-term debt due within one year	\$ 6,054	\$ 80,210
Long-term debt	163,602	86,058
Total debt	169,656	166,268
Add decommissioning fund (Note 17)	2,769	2,713
Total debt to include in the calculation	\$ 172,425	\$ 168,981
Share capital	\$ 39,000	\$ 39,000
Contributed surplus	14,600	14,600
Retained earnings	65,596	68,014
Total shareholder's equity	119,196	121,614
Total capitalization	\$ 291,621	\$ 290,595
Total debt to total capitalization	59 %	58 %

There were no changes in the Utility's approach to capital management during the period.

### 27. SUBSEQUENT EVENTS

Subsequent to year-end, the Utility entered into a contract to purchase certain products or services. The total commitment for four years is approximately \$20 million, subject to demand and fluctuations in market prices.

As a result of the spread of the COVID-19 coronavirus, economic uncertainties have arisen which are likely to impact forecasts. The potential financial impact cannot be reasonably estimated at this time, but is expected to both positively and negatively affect the Utility's financial position, results of operations and cashflows.





## **Environmental Benefits Statement**

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By using this paper, Yukon Energy saved the following resources based on a copy run of 50 reports:

Wood Use: 450 kg

Water: 1,850 L

Energy: 300 kWhr

Solid Waste: 25 kg

Greenhouse Gases: 62.50 kg CO<sub>2</sub> equiv.



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