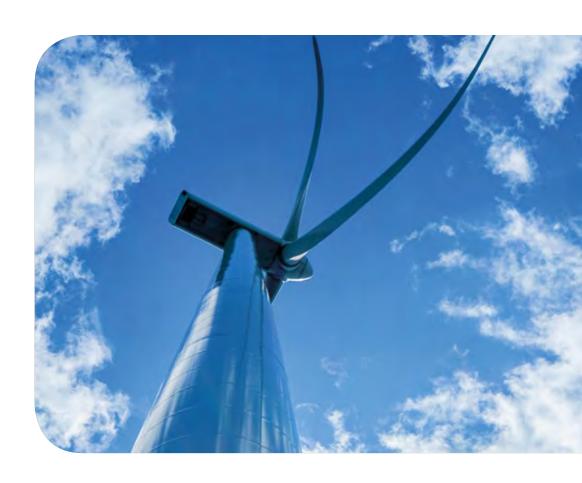


Shaping Our Common Future

2019 SUSTAINABILITY REPORT TO OUR KEY STAKEHOLDERS



Shaping Our Common Future



Message From the CEO



Business Snapshot



Sustainability: It's in Our Nature



2023 Sustainability Goals



Environmental Stewardship



People and Culture



Sustainability Governance



Forward-Looking Statements and Forward-Looking Information*



Appendix A: Sustainability Accounting Standards Board (SASB) Table



Appendix B: Global Reporting Initiative Content Index



Appendix C: Operational Metrics



Appendix D: Sustainability Policy

^{*} This report contains forward-looking statements which are based on certain factors and assumptions and expectations and subject to certain risks which could cause actual performance and results to differ materially. For more information on forward-looking statements and information, please refer to "Forward-Looking Statements and Forward-Looking Information" in this report (page 39).

Message From the CEO

Sustaining Energy and Water for Life is our purpose, and we recognize it as a shared responsibility. A commitment to our common future drives us to make sustainability part of everything we are, inspire smarter use of the earth's resources, and activate opportunities for positive social and environmental impact.

From our start 30 years ago building renewable energy run-of-river hydroelectric generating stations, sustainability has been at the heart of our company and fundamental to the way we do business. We have always focused on achieving excellence in the development and delivery of renewable energy resources and sustainably run utility services while positively impacting the lives of our employees, customers, and members of our communities. We're proud of what we've accomplished so far and invigorated by how much there is yet to do.

One of the most significant risks that the world faces today is climate change. Disruptors involved with the transition to a low-carbon economy present significant risks, but also compelling opportunities for a company like ours.

SUSTAINABILITY EMBEDDED IN OUR BUSINESS STRATEGY

We have a strong sustainability story to tell. This year, we have taken significant steps to become more transparent and deliberate in the communication of our sustainability commitment to our key stakeholders. With the establishment of our Office of Sustainability in 2019, we tasked our Chief Governance Officer with accountability to lead our sustainability team in developing and managing our sustainability plan and initiatives.

we set out to understand where and how our business could most meaningfully contribute. We've identified the SDGs which we felt were most relevant to our company throughout this report, and we will continue to reflect on how to proactively impact these goals in the future.

During 2019, with the support of external experts and input from several of our key investors, our leadership team identified the environmental, social, and governance (ESG) factors which are most significant to our business. Not surprisingly, through this activity, climate change was identified as a significant factor.

In addition, we were pleased to have our first Green Bond offering in 2019 and we look forward to providing additional opportunities for ESG investing in the future.

In founding this organization 30 years ago, we did not foresee our company being a champion in the fight against climate change. However, our strategy to decarbonize our asset portfolio, and in turn participate in decarbonization of the communities we serve and in which many of our employees live, provides us with a clear path towards a common sustainable future. We also acknowledge the climate-change related risks inherent in our physical operations. In this report, we demonstrate our continued investment in the reliability and safety of our assets – another of our significant factors.



Finally, we recognize that the transition to a low-carbon economy, and building a leadership team and workforce with the necessary skills to navigate to the new economy, requires a focus on building an inclusive and diverse corporate culture, a strong strategy for talent attraction and retention, and, perhaps most importantly, continued efforts to ensure the safety of our employees. These are some of the key factors that we have identified and addressed in our sustainability plan and initiatives. How we perform in relation to these factors will ultimately determine our success in delivering top-quartile customer service and our continuing efforts to positively impact the affordability of the services we provide to our customers.

We understand that our customers have evolving options for the energy and water services providers they choose. That's why aligning our business to meet future customer

4 A commitment to

sustainability underpins

our strategy to continue

through the acquisition

of additional regulated

internationally, as well

renewables portfolio."

utilities in both

North America and

as expansion of our

growing our business

expectations is fundamental to our continued growth. This report tells the stories of our commitment to address our selected list of seven ESG factors today and what we will be doing into the future.

TRANSITIONING TO A **LOW-CARBON ECONOMY**

A commitment to sustainability underpins our strategy to continue growing our business through the acquisition of additional regulated utilities in both North America and internationally, as well as expansion of our renewables portfolio.

The global transition to a low-carbon economy presents exciting business opportunities, as evidenced by the increasing desire for development and delivery of renewable energy to replace fossil-based generation sources and to decarbonize existing products and services in the energy and water sectors.

We support the global goal of limiting planetary temperature rise to less than 2 degrees Celsius this century, and we will reduce the impact of climate change through the deployment of emerging technologies and business models that will decarbonize our energy portfolio and that of the communities where we operate.

Reducing our reliance on fossil-based energy sources by pursuing sustainable alternatives is the strategy we've established to take action against climate change. By reducing the carbon content of the products we deliver to our customers, growing our renewables portfolio, and decreasing the internal carbon intensity of our operations, we are sustaining energy and water for life.

We are taking action today. This is demonstrated by the goals we have set for our business to reduce CO₂ equivalent (CO_2e) emissions by one million metric tons from 2017 levels and adding 2,000 MW of new renewables capacity by 2023. Among our top initiatives for achieving decarbonization is our Customer Savings Plan program being put into action in our regulated utility business in the U.S. Midwest. Following regulatory approvals, we have moved forward

to build 600 MW of new wind generation capacity. This program will deliver significant customer savings gained from cost-effective renewable generation and facilitate the closure of an existing coal generation plant in our Central Region regulated utility.

We see the acquisition of new assets, which perhaps have a larger carbon footprint, as an opportunity to execute on our "win-win" decarbonization strategy lower costs for customers through cost-effective renewable energy, excellent business opportunity for our investors, and delivery on our commitment to sustainability for the planet. Our 2017 acquisition of The Empire District Electric Company is a perfect example of such an opportunity.

Although our carbon emission profile may vary significantly over time due to acquisitions, our commitment to climate

action will ultimately lead to baseline decreases in those emissions as we execute on our growth strategy, continue the build out of additional renewable generation capacity, and drive further operational improvements

throughout the business.

GROWING OUR PORTFOLIO OF WATER SOLUTIONS

More than 164,000 of our customers count on us for safe and reliable drinking water and wastewater services. It is our duty to meet those needs while maintaining healthy water ecosystems and employing best practices in efficiency, conservation, re-use, and recycling of water.

We will achieve this by reducing the environmental impact of the use of freshwater resources through encouraging efficient use and re-use of water resources, deploying new technologies that reduce the demand for freshwater resources and the carbon intensity of providing those resources, and upgrading infrastructure to continue providing safe and reliable drinking water to the communities we serve.

With our water utilities constituting an essential part of our business, we intend to continue expanding our water infrastructure and services to include desalination projects that help mitigate the depletion of fresh groundwater. This report discusses the water solution activities we are involved in through our North American business as well as our equity interest in Atlantica Yield plc.

DELIVERING CLEAN AND AFFORDABLE ENERGY TO THE COMMUNITIES WHERE WE OPERATE

Our "think global, act local" business model addresses our factor of customer experience and affordability, and positions us to foster constructive and mutually beneficial relationships with local suppliers, vendors, contractors, regulators, and the communities we serve. We will measure our customer experience performance against our goal to achieve top-quartile ratings through the J.D. Power Customer Satisfaction Survey. By continuously identifying capital

and operational efficiency opportunities that drive lower customer costs, we deliver more affordable utility services. Our goal to add 2,000 MW of additional low-cost renewable generation capacity into our supply mix also plays a significant role in saving our customers money while satisfying the need to decarbonize our energy portfolio and the energy we supply to our customers.

Investing in infrastructure technology and operating our business as efficiently as possible also helps us to reduce our operating costs, which transfers to customer savings. Ensuring the reliability and safety of our assets will help us deliver value to our customers and communities as we

navigate the evolving landscape of customer expectations and the risks associated with climate change.

This report shares several stories of what we're doing to bring our local business model to life and examples of how we're improving our operations and infrastructure to address our ESG factors.

EMPOWERING OUR PEOPLE AND CHAMPIONING EQUALITY

Talent attraction and retention, employee safety, and our corporate culture are significant factors to our business. Having an engaged, high-performing, and talented team of employees is one of the critical assets that will lead our company through the transition to a low-carbon economy. We pay close attention to the well-being of our employees and are dedicated to the education, development, and

empowerment of our workforce through good health and wellness and a positive safety culture.

We also recognize the powerful impact of diversity and inclusion on business success, and are committed to continuing the development of an organizational culture that champions equality to build a more just society. By fostering a supportive work culture and business practices free from barriers and biases, we aim to inspire collaboration, creativity, and innovative thinking by retaining and attracting employees with diverse backgrounds, abilities, and viewpoints. As a primary focus for our business over the past several years, this report highlights several aspects of the activities we've initiated since 2016 to continually build a more diverse and inclusive workplace.

LOOKING FORWARD

Our sustainability plan and the actions we take towards reaching our sustainable future will continue to evolve in a way that is aligned with our commitment to good governance as an essential element in our pursuit of positive and balanced outcomes for our business, workforce, shareholders, and communities. In this regard, our sustainability plan involves the integration of sustainability into our business strategies, practices, and processes by engaging our Board and senior executives in all aspects of sustainability, including the development of proactive compliance, performance measurement, and disclosure practices.

We see the acquisition of new assets, which perhaps have a larger carbon footprint, as an opportunity to execute on our "win-win-win" decarbonization strategy – lower costs for customers through cost-effective renewable energy, excellent business opportunity for our investors, and delivery on our commitment to sustainability for the planet. Our 2017 acquisition of The Empire District Electric Company is a perfect example of such an opportunity."

Our 2019 report focuses on the priority areas of our business as identified by our key stakeholders. We chose to consider elements of both the Global Reporting Index (GRI) framework and guidance for our ESG metrics from the Sustainability Accounting Standards Board (SASB) for the three main areas of our business (Electric Utilities and Power Generators, Gas Utilities and Distributors, and Water Utilities and Services). With the foresight to deepen understanding of our ESG factors, and further improve the quality and transparency of our climate-related financial disclosures, we have already begun preparing our 2020 disclosure in line with the Task Force on Climate-related Financial Disclosures (TCFD) recommendations.

In closing, I'd like to recognize all of our employees who are

committed to driving our sustainable business strategy through global and local initiatives. Together, we are excited to embrace new opportunities to help build more sustainable communities and continue doing well by doing good.

Yours sincerely,

Ian Robertson

Chief Executive Officer

Business Snapshot as of December 31, 2018

At Algonquin Power & Utilities Corp. (Algonquin), we focus on providing clean, safe, and sustainable energy and water services to nearly 800,000 North American customers, while delivering strong earnings, cash flow, and dividend growth via operational excellence, strategic growth, and accretive acquisitions.

Through our two business groups – Liberty Power and Liberty Utilities – we own and operate a diversified portfolio of North American rate-regulated and non-regulated electricity, natural gas, and water services businesses.

We develop, own, and operate sustainable assets built for the long term. Since our inception in 1988, our operations have grown to include more than 70 electrical generation, transmission, and distribution facilities in Canada, the United States, and internationally, supported by more than 2,200 skilled and motivated employees, each of whom plays a vital role in our success.

With our robust, diversified, and growing presence in communities across the U.S., Canada, and internationally, we are continually demonstrating our unique "Think global, act local" business model.

Summary of Operations

Data provided as of December 31, 2018.

Liberty Utilities	Utilities (#)	Customers (000s)	Gross revenues (\$U.S. millions)
Electric utilities	3	266	\$831.2
Natural gas utilities	8	338	\$395.5
Water and wastewater utilities	27	164	\$128.4
Total	38	768	\$1,355.1

Liberty Power¹	Facilities (#)	Capacity (MW)	Gross revenues (\$U.S. millions)
Generating capacity	36	1,488	\$235.4

Electricity generation capacity (MW) ²	Liberty Power	Liberty Utilities	Total
Renewable energy			
Wind	1,127	_	1,127
Solar	115	50	165
Hydroelectric	119	16	135
Total	1,361	66	1,427
Thermal			
Natural gas	127	1,370	1,497
Coal ³	_	213	213
Total	127	1,583	1,710
Grand total	1,488	1,649	3,137

Notes:

- 1. Excludes \$11 million of Renewable Energy Credits revenue.
- Electricity generation capacity relates to the gross nameplate generating capacity of the power facilities owned and managed by Algonquin.
- 3. Coal capacity total represents the Asbury facility, and does not include minority, non-controlling equity interests in latan and Plum Point.



Operations reach
2 countries,
24 states and
provinces



Indirect interests in energy/water assets in 7 additional countries



Total assets \$9.4 billion



773,980 solar panels



Solar, wind, and hydroelectric generation in North America

1.4 GW



5/8 owned and operated wind turbines



2,277 employees



768,000 customers

All monetary amounts are in U.S. dollars, except where otherwise noted.



Sustainability: It's in Our Nature

The elements critical to the long-term success of any enterprise are loyal and valued customers, an engaged and talented team of employees, and a committed, long-standing investor group. At Algonquin, we believe that a commitment to sustainability woven through our business proposition will deliver all three.

In 2019,

Sustainability is, and always has been, the foundation of our growth strategy and a guiding principle governing how we plan, evaluate, and conduct our business. Being equally committed to the creation of social and environmental value, as we are to generating economic profit provides the opportunity for customers to patronize, employees to work for, and investors to fund, a safe, reliable, and agile international organization.

Today, "doing the right thing" is simply not enough. We have to measure our sustainability efforts, perform against them, and communicate our results. Reporting on relevant environmental, social, and governance metrics provides a way to demonstrate how we are making positive change.



Continuing on Our Path

The next step in our journey to increase the transparency of our sustainability story began with establishing our Office of Sustainability. Supported by a team of senior executives, the development of our program was undertaken by a cross-functional working group including individuals who represent our corporate strategy, enterprise risk management, human resources, environmental, health and safety, asset operations, performance measurement, communications, and customer experience functions within our organization.

This group's mandate is to ensure that the opportunities and risks relating to sustainability (environmental, social, and governance) identified as relevant to our business are considered and addressed as core components of the strategy and business processes of the organization, and to implement practices and programs that support the achievement of our mission.

Our sustainability planning process examined several ESG reporting methodologies and tools in consideration of defining our framework for organizing and communicating our plans and measures. Our sustainability reporting strategy is influenced by SASB as the primary guide for our assessment and disclosure practices as well as the GRI framework. Additionally, in developing our sustainability plan, the UN SDGs have also been reviewed and referenced where applicable. Our path forward includes a commitment to incorporate the TCFD recommendations, with our first-phase TCFD disclosure to be published in 2020. Where we have identified alignment to the SASB and GRI frameworks, we have cross-referenced to the applicable information in Appendix A: SASB Table (page 40) and Appendix B: GRI Content Index (page 44) to this report.

This Sustainability Report sets out our commitments to sustaining energy and water for life by communicating our strategies, initiatives, and goals relating to the three elements of sustainability: the environment; the social matters important to our strategy and our relationship with our key stakeholder groups including employees, customers and the communities in which we operate and serve; and, the governance framework under which we operate. Through the stories of the programs, initiatives, and projects we're undertaking to implement our sustainability plan, this report also serves to illustrate the various ways in which we operationalize our sustainability commitments.

Organizational Purpose

Sustaining Energy and Water for Life

Our Mission

Provide sustainable, clean energy and water solutions that create better everyday lives and inspire our communities.

11-year

legacy responder to the

Climate

Disclosure

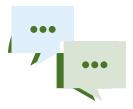
Project





POLICY

In 2018, we published our *Sustainability Policy* (page 55). Our policy aligns with the six selected United Nations *Sustainable Development Goals* (UN SDGs) that are most relevant to us and sets forth our commitments to a sustainable energy and water future.



CONSULTING STAKEHOLDERS

During 2019, we undertook internal and external consultations to identify and define the sustainability issues most likely to have an impact on our business. Externally, we engaged some of our key investors to help us consider the ESG factors that are most important to our business. Please see pages 12 and 13 for a summary of our stakeholder engagement activities.



SUSTAINABILITY REPORTING

The voluntary sustainability reporting landscape is evolving rapidly. We aim to actively engage with our key stakeholders in an enhanced ESG dialogue and work to achieve further transparency as we address risks and create opportunities for progress.

We recognize that transparent and objective reporting is a key requirement in demonstrating our commitment to sustainability to our investors, our customers, and our employees. The alignment of our ESG goals with our corporate strategy ensures consistency between our words and our actions.



OPERATIONALIZING SUSTAINABILITY

Our sustainability plan is based on an ESG framework aligned with factors significant to our business and the commitments set out in our *Sustainability Policy*. We have defined specific strategic objectives relating to our ESG factors and the enterprise initiatives that will help us to achieve these objectives.

While we have proudly proclaimed our key ESG goals, we will continue to refine and develop appropriate performance indicators to measure our progress towards these goals and a more sustainable future.



Our Key ESG Factors

Based on our stakeholder engagement activities, we have identified seven key ESG factors we consider important to our business.

- Climate change
- Culture
- Talent attraction and retention
- Transition to a low-carbon economy, and succession of talent to a leadership team and workforce with the necessary skills to navigate to the new economy
- Safety of employees
- Reliability and safety of assets (including cyber security risk management)
- Customer experience and affordability



REPORTING FRAMEWORK

Throughout this *Sustainability Report*, you'll find that we have highlighted several metrics that we believe are most relevant to our stakeholders and demonstrate our commitments to sustainability. Our report framework has been developed to suit the interests of a broad group of our stakeholders. In considering our audiences, we have chosen to include guidance for our ESG metrics from the SASB framework and elements of the *GRI Standards*.

Appendix A (page 40) of this report includes a SASB cross-reference table, Appendix B (page 44) provides a table of ESG information mapped to GRI, and Appendix C (page 49) contains additional relevant operational information.



GHG INVENTORY CALCULATIONS

For over ten years, we have prepared annual GHG inventory calculations for our two North American business units – Liberty Power (renewable and thermal power generation plants) and Liberty Utilities (electric and natural gas and water distribution utilities and water treatment facilities, plus electricity generation assets).

As part of our effort to better understand and disclose our climate change risks and opportunities, and set meaningful targets, in 2019 we engaged with a sustainability consulting firm, with expertise in standards-based carbon accounting, to review our GHG inventory calculations and reporting.

Stationary fuel combustions from thermal power plants, which accounts for over 95 per cent of our total annual GHG emissions, are currently our largest emission sources. Most of these emissions are measured data, collected by Continuous Emissions Monitoring systems (CEMs), and not calculated using emission factors.

Our external consultant has verified these emission numbers and confirmed that there are no material issues with the calculation methodologies.

When calculating our GHG emissions, we use an operational control-based approach, reporting emissions for locations and activities where our organization has the full authority to introduce and implement our operating policies.



BASE YEAR AND RECALCULATIONS

Our growth strategy has the effect of changing our asset profile from time to time due to acquisitions, divestments, mergers, or other operating changes. These changes can alter our emissions profile significantly (for example, the 2017 purchase of The Empire District Electric Company's coal-fired power plant significantly increased our total emissions), which makes meaningful comparisons to historical emissions levels difficult. To maintain consistency over time, we have designated 2017 as our base year for establishing an initial emissions reduction target.

Base-year emissions data may need to be recalculated to reflect changes to our future business structure. Therefore, we are developing a base-year recalculation policy to help us determine when the base year's emissions would need recalculation to maintain a fair year-over-year comparison.



ABOUT THIS REPORT

We are committed to telling our sustainability story through an annual sustainability report moving forward. Our 2019 Sustainability Report provides data over a three-year period ending December 31, 2018. We have elected to continue our reporting with 2017 serving as our base year for carbon emissions. Data for 2016 has been included in this report to illustrate the significance of our acquisition of The Empire District Electric Company on January 1, 2017. All monetary amounts are in U.S. dollars, except where otherwise noted.

OUR EMISSIONS PROFILE

Total GHG Emissions

Kilotonnes of CO, equivalent (CO,e)

2016 **401**

2017 ¹ 3,220

2018 **2,881**

GHG Emissions (Coal, oil, diesel, natural gas)

Kilotonnes of CO₂e

SCOPE 1: GHG EMISSIONS PRODUCED DIRECTLY FROM SOURCES THAT ARE OWNED OR CONTROLLED BY ALGONQUIN

2016 **273**

2017¹ 3,084

2018 2,743

Percentage of Total GHG Emissions Covered Under Reporting Regulations

2016	97.44%	
2017	99.76%	
2018	99.72%	

GHG Emission Intensity for Power Generation

Metric tons of CO₂e/MWh

2016 **0.0789***

2017¹ **0.3296**^{*}

2018 **0.2821**

Note:

- Comparative figures between 2016 and 2017 may have material differences as a result of the acquisition of The Empire District Electric Company in 2017.
- Represents a number that has been updated or corrected since first publication.

Consulting Our Stakeholders



EMPLOYEES

- · Annual Employee Engagement Survey
- · Annual executive visits
- Employee Ethics Hotline
- Individual development planning
- · Lean In Circles program and resource groups
- Ombudsperson Service
- · Quarterly town halls
- Questionnaires
- · Regular online surveys and polls
- Training
- Union relations and consultations





COMMUNITIES

- · Charitable activities
- · Community consultation meetings
- Community events
- Community partnerships and sponsorships
- Community partnership survey
- · Education and outreach programs
- · Educational institutions
- · Landowner dinners and information sessions
- · Local Chambers of Commerce
- · Local media outlets
- · Military events and organizations
- Rotary Clubs



CUSTOMERS

- Annual J.D. Power Customer Satisfaction Survey
- Call centers
- · Community education programs
- · Conservation and outreach programs
- · Regular email communications
- Focus groups
- Local customer walk-in centers
- · Local media outlets
- Participation in and sponsorship of local events, teams, and charitable foundations
- · Social media

INVESTORS AND ANALYSTS

- Annual Investor Day events in both Toronto and New York City
- · Quarterly earnings calls
- · Scheduled visits with investors
- Sustainability Day event
- Third-party interviews with an external ESG consultant



GOVERNMENT AND REGULATORY BODIES

- Building local relationships
- · Participation in industry associations and advisory groups
- · Proactive self reporting
- Regular outreach

Seven Key ESG Factors Relevant to Our Stakeholders

	Key ESG Factors	Customers	Employees	Investors	Communities	Government and Regulatory Bodies
	CLIMATE CHANGE (pages 16 – 18)	•	•	•	•	•
	CULTURE (pages 22 – 35)	•	•	•	•	
	TALENT ATTRACTION AND RETENTION (pages 29 – 35)		•	•	•	
	TRANSITION TO A LOW-CARBON ECONOMY, AND SUCCESSION OF TALENT TO A LEADERSHIP TEAM AND WORKFORCE WITH THE NECESSARY SKILLS TO NAVIGATE TO THE NEW ECONOMY Message From the CEO (pages 3 – 5)	•	•	•	•	•
<u>A</u>	SAFETY OF EMPLOYEES (pages 34, 35 and 38)		•	•		•
	RELIABILITY AND SAFETY OF OUR ASSETS Including cyber security risk management (pages 27, 28 and 38)	•	•	•	•	•
	CUSTOMER EXPERIENCE AND AFFORDABILITY (pages 22 – 24, 27 and 28)	•	•	•	•	•



Our Commitments

The UN SDGs promoted by the United Nations is a global set of goals, targets, and indicators that United Nations member states (and, increasingly, businesses) use to frame agendas and policies surrounding development. Our core sustainability commitments align with the six UN SDGs which touch areas in which we feel our businesses could make the greatest impact.

OUR COMMITMENTS

OUR INITIATIVES



Support the global goal of limiting planetary temperature rise of less than 2 degrees Celsius this century and reduce the impact of climate change by deploying emerging technologies and business models to decarbonize our energy portfolio.

- Reducing the carbon content of the products we deliver to our customers
- · Growing our renewables portfolio
- Reducing the internal carbon intensity of our operations



Provide safe and reliable drinking water and wastewater services while maintaining healthy water ecosystems by employing best practices in efficiency, conservation, re-use, and recycling of water.

- Encouraging efficient use and re-use of water resources
- Deploying new technologies that reduce the demand for freshwater resources and the carbon intensity of providing those resources
- Upgrading infrastructure to provide safe and reliable drinking water



Create and support resilient communities through dialogue and collaboration, and seek partnerships with local suppliers, vendors, and contractors who align with our values and principles.

- Fostering constructive and supportive relationships with the communities we serve
- Striving to provide a top-quartile customer service experience
- Actively engaging with supply chain partners to operationalize our sustainability plan



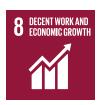
Deliver cost-effective and reliable utility services.

- Incorporating low-cost renewable energy into our supply mix
- Investing in infrastructure to reduce operating costs
- Operating our business efficiently



Champion equality to build a more just society.

- Creating and fostering employee resource groups to encourage positive diversity and inclusion outcomes
- Committing to gender balance on boards and in senior leadership
- Removing unconscious bias from our processes and systems



Educate, develop, and empower a high-performing workforce through good health and wellness, and a positive safety culture.

- · Attracting and developing world-class talent
- · Driving top-quartile employee engagement
- Achieving our "Drive to Zero" safety culture

Practice good governance as an essential element of our pursuit of positive and balanced outcomes for our business, workforce, shareholders, and communities.

- Engaging Board and senior executives in sustainability
- Developing a positive compliance culture
- Adopting TCFD recommendations into our business

2023 Sustainability Goals





Target of 75% renewable generation



Reduce GHG emissions by one million metric tons



2,000 MW of renewables

Social



Exceed 30% women in leadership roles



Achieve top-quartile customer service



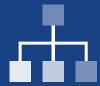
Achieve top-quartile employee engagement

Governance



sustainability into our compensation model

Embed



Build a robust compliance framework



Publish TCFD-aligned disclosure starting in 2020



2023 Sustainability Goals



Target of 75% renewable generation

13 CLIMATE ACTION



Reduce GHG emissions by one million metric tons

from 2017 levels



Add 2,000 MW of renewables

between 2019 – 2023

CLIMATE ACTION

We support the global goal of limiting planetary temperature rise to less than 2 degrees Celsius this century, and we will reduce the impact of climate change through the deployment of emerging technologies and business models to decarbonize our energy portfolio.

Reducing our reliance on fossil-based energy sources by pursuing sustainable alternatives is the strategy we've established to take action against the impacts of climate change. By reducing the carbon content of the products we deliver to our customers, growing our renewables portfolio, and decreasing the internal carbon intensity of our operations, we are sustaining energy and water for life.

By recognizing that climate change presents a critical opportunity for action, we are focusing on a series of initiatives to make positive change.



Removing One Million Metric Tons of GHG Emissions

The Asbury Power Plant has been providing safe, reliable, and economical energy to our Missouri customers for over 40 years. The plant utilizes the latest environmental controls to reduce emissions, including a selective catalytic reduction system, scrubber, baghouse, and powder-activated carbon injection system. However, as a critical component in our short-term plan to decarbonize our energy portfolio, we have committed to closing the legacy coal-fired generation plant by 2023. The closure will reduce our GHG emissions by approximately one million metric tons of CO₂e, which represents Asbury's average annual emissions in 2017 and 2018 – the two full calendar years that we have owned the facility.

In 2018, there were 32 employees working at the Asbury plant. We are committed to responsibly transitioning the plant's staff to new positions within our organization.



Our power generation business focuses on the increasing opportunities to economically build and operate renewable energy generation capacity. As the most recent step in our plan to create new

wind generation capacity, we have received the final certificates allowing for the build out of 600 MW of new wind generation in the U.S. Midwest. Once these wind farms, collectively referred to as the *Customer Savings Plan*, are fully operational, they are expected to generate customer savings of approximately



\$169 million over 20 years or roughly \$300 million over 30 years.

Including these *Customer Savings Plan* projects, our Greening the Fleet initiative continues to demonstrate our ongoing commitment to providing our customers with new, clean, cost-effective, and sustainable supplies of energy.

From 2017-2018,
Algonquin
reduced
GHG
emissions
from fossil fuel based
electricity generation by



* Total GHG emissions from all operationally controlled assets.

Generating Portfolio Mix

2016		90%	10%
2017	43%	50%	7%
2018	45%	48%	7%
	RENEWABLE	NATURAL GAS	COAL

Reducing the Carbon Content of Our Natural Gas Supplies

We are actively pursuing opportunities to incorporate renewable natural gas into the supply mix for our gas distribution utilities. This will directly reduce the emissions intensity of the energy we supply to our natural gas customers. As a mandate of our international business development team, our commitment to the build out of renewable assets includes the exploration of opportunities to replace conventional natural gas with additional renewable sources. In future sustainability reports, we will continue to report on our progress with developing sources of natural gas.

7,504 miles of gas distribution lines

In 2018, Algonquin

replaced 51.6 miles of natural gas pipeline

to reduce methane gas emissions

Fueling Our Future

By transitioning our operational vehicle fleet to electric vehicles (EVs) and compressed natural gas (CNG), and adding fueling and charging stations throughout our service territories, we are leaving a greener footprint in the communities we serve.

EVs have zero to near-zero emissions. As the transportation sector accounts for more than a quarter of annual U.S. GHG emissions, electrification presents a huge opportunity to achieve national clean air and climate goals.

In addition to the environmental benefits, driving EVs is economical.

Based on national average residential electricity prices, "fueling" an EV is equivalent to paying about \$1.25 per gallon of gasoline. Furthermore, EVs have lower maintenance requirements than their gasoline-powered counterparts.

Natural gas vehicles are some of the cleanest vehicles on the market. They produce 20 to 30 per cent fewer greenhouse gases than gasoline or diesel-powered vehicles. Also, since CNG engines generate less motor residue and build up, using CNG extends the life of fleet vehicles, which helps to lower our operating costs.

28% of Algonquin fleet vehicles

were low or no-emission vehicles in 2018

Partnering with companies to install EV charging stations

In 2018, approximately

70 Algonquin fleet vehicles were CNG capable

In 2018, Algonquin used

11,657 gas gallon equivalent

ADS-R-5 Page 18



Protecting Biodiversity

Land use is important as we transition to a low-carbon economy, continue to develop our renewables portfolio, and operate our utility businesses. As part of our commitment to making a positive environmental impact, we look for new ways to be effective in protecting wildlife and their habitats. We're proud of the steps we're taking to provide solutions that help protect species populations as we continue to grow our business.



GIVING POLLINATORS THE RIGHT-OF-WAY

Pollinators across North America are in trouble, with honeybees and monarch butterflies experiencing drastic declines in population over the past 20 years. As many factors have contributed to their decline, no single solution will fix the problem. However, we know that increasing the availability of nectar and pollen by providing more flowering plants and trees, will help improve their health and numbers.

By operating on tracts of mostly undeveloped land that include transmission line rights-of-ways, utilities are uniquely positioned to boost the health of pollinators. In 2018, we began implementing pollinator protection projects as part of our sustainability efforts.

Providing 20 acres of land and 2,000 sq. ft. of garden for pollinators



NESTING WITH BIRDS OF PREY

Ospreys, a species of concern in Missouri, typically build their nests near bodies of water, in large trees, and on artificial structures such as electric utility poles. Pairs return to the same nesting site each year, usually in March.

In February 2015, our line crews in Missouri moved a dangerously positioned osprey nest from an electric transmission tower to a newly built nesting box. By relocating the nest, crews increased the likelihood the pair would adopt the new nesting site. A live Internet feed, from an "osprey cam" that was placed at the site for the viewing enjoyment of the community, has confirmed that the birds have accepted their alternative accommodations. Based on the success of the pilot project, we have installed nesting boxes at other locations with similar nesting issues.

In 2018, we had 10 osprey nesting boxes installed throughout our utility service territories and 14 active falcon boxes in Missouri that house 28 individual falcons.

Installing nesting boxes for 10 pairs of ospreys and 14 pairs of falcons



TO THE BAT CAVE

We have officially become the proud owner of a bat cave near Buffalo, Missouri. We purchased the cave to help preserve gray bat populations by protecting a colony of bats located near one of the wind farms we're developing. The 20 acres we now own formerly served as a limestone quarry. However, when the quarry stopped operating, the pit flooded, and a colony of bats moved into the mineshafts. Radar readings showed anywhere from 15,000 – 20,000 bats living there.

Purchasing the land not only helps to conserve the bat colony, we will also use the property to benefit the surrounding community. Plans include planting wildflowers that control invasive plant species and noxious weeds, as well as attract more insects — a food source for the bats. Also, we are examining other ways to provide community benefits such as the development of pedestrian and bicycle trails.

Providing a home for 15,000 – 20,000 gray bats



HEALTHY WATER ECOSYSTEMS

We are committed to providing safe and reliable drinking water and wastewater services while

maintaining healthy water ecosystems by employing best practices in efficiency, conservation, re-use, and recycling of water.

We will achieve this by reducing the environmental impact of the use of freshwater resources through encouraging efficient use and re-use of water resources, deploying new technologies that reduce the demand for freshwater resources and the carbon intensity of delivering those resources, and upgrading infrastructure to provide safe and reliable drinking water to the communities we serve.

164,000+ water and wastewater customers

2,368 miles of water distribution mains

Water use in

California is being

reduced by

Increasing Reliability in Southern California

We live in and support the communities we serve, and deliver safe and reliable water services with care and integrity. Our customers' issues are our issues – our front-line employees live them every day. We pump, treat, and deliver potable businesses in Arizona, California, Texas, Missouri, Illinois, and Arkansas.

In February of 2018, we were proud to activate a new groundwater well in Compton, Los Angeles, California. This increased water supply reliability for community residents and reduced their dependency on costly purchased water from outside of the service territory. Groundwater is controlled of outside agencies and making groundwater a preferred source for residents. The new well produces as much as 2,500 gallons of water per

project echoes our commitment to upgrading our infrastructure to ensure drinking water to our customers.

Volume of Recycled Water Delivered (million gallons)

2016	347
2017	369
2018	482

Cash for Grass

At Algonquin, we run and partner in several water conservation initiatives in our water utility service territories. Each location offers programs to educate

and encourage customers to be more efficient in their water use.

236 million gallons/year One program that has been

very successful and received national attention is the Cash for Grass program run in Apple Valley, California. Customers are being offered cash incentives to remove or reduce their lawn areas or plant less water-intensive native plant species. This program is estimated to reduce annual water use by as much as 236 million gallons.

Electric Utility – Total Water Withdrawn (million gallons)

2016	3,536	
2017	2,712	
2018	3,255	

Water Utility – Total Water Withdrawn (million gallons)

2016	374,449	
2017	389,897	
2018	370,589	

Percentage of All Water Withdrawn in Regions with High or Extremely High Baseline Water Stress

2016 **1.35** 2017 **2.01** 2018 **1.75**



Investment in Desalination

In November 2017, we announced our push beyond North America for the first time, launching a joint venture development company known as AAGES with Spain's Abengoa while also acquiring Abengoa's stake in Atlantica Yield plc.

Atlantica Yield is contracted for 17 years on its Skikda desalination plant in Algeria, which produces 100,000 m³ of desalinated water for off-takers l'Algérienne Des Eaux (ADE), the national water company, and Sonatrach, the state-owned hydrocarbons operation. Atlantica's other desalination contract is for Algeria's Honaine facility, providing for 200,000 m³ over 21 years to the same off-takers.

Atlantica Yield also owns 11 solar plants, as well as wind and other renewable power generation facilities and transmission lines. We benefit from having an experienced international operator for new projects developed by AAGES, as well as an interest in an attractively-priced portfolio of high-quality global operating assets that are accretive to our earnings and cash flow per share.

Aquifer Replenishment

The Liberty Aquifer Replenishment Facility (LARF) is a water recharge project resulting from a 100-year partnership between our subsidiary company, Liberty Utilities, and the Central Arizona Groundwater Replenishment District (CAGRD), and is the State's first public-private reclaimed water recharge facility.

The LARF was designed to beneficially reuse over five million gallons of water per day of highly treated (A+ effluent) water. The LARF receives A+ effluent from Liberty Utilities' Palm Valley Water Reclamation Facility and recharges it into basins that then percolates it into the ground on our 51-acre site located near the Luke Air Force Base. The primary goal for Liberty and CAGRD was to enhance water sustainability through the reuse of high-quality effluent water stored underground for future use in times of drought. The direct impact of aquifer recharge will be a gradual rise in the water table that had been declining for years.

The effluent replenishment facility is expected to recharge at least 78 billion gallons of water into the west valley aquifer over the next century, thus helping Liberty Utilities and the surrounding communities it serves to be more resilient and sustainable in times of drought.



Our Commitment to People and Culture: Engaging in Safety, Equity, and Resilience

2023 Sustainability Goals



Exceed 30% women in leadership roles



Achieve top-quartile



Achieve top-quartile employee engagement



LOCAL, RESPONSIVE, AND CARING

Through dialogue and collaboration, we endeavour to create and support resilient communities. We demonstrate a local, responsive, and caring relationship with our customers, communities, and regulators by fostering constructive and supportive relationships with the communities we serve and striving to provide a top-quartile customer service experience.

In addition, we seek partnerships with local suppliers, vendors, and contractors who have values and principles that align with ours. By actively engaging with our supply chain partners to operationalize our sustainability plan, we ensure that our suppliers have values comparable to ours and operate in compliance with all applicable laws and regulations.

We care about our customers' experience and the quality of local service we deliver. By investing in our communities for the long term, we'll grow together.

Environment Social Governance



Employees Living and Active in Their Local Communities

Our business model is based on ensuring that employees in roles that interact with local stakeholders are situated in areas where those stakeholders reside. This approach includes functions that interact directly with customers, regulators, and employees. As well, employees are encouraged to live in the service territories they serve.

To support this close connection to our communities, in some cases incentives are provided to employees who reside in, and are customers within, the service territories in which they work. Local utility employees are also encouraged to actively participate in their communities through community organizations and service clubs such as local Chambers of Commerce, Rotary Clubs, and similar organizations.

We strongly encourage our employees to get involved in community events and activities. The Liberty Days program was designed to reinforce our company's commitment to community support and improvement by providing employees with time dedicated to taking part in volunteer activities.

Each year, employees are invited to spend up to three paid days during regular working hours volunteering in their community, taking part in activities that reflect the company's goals and brand. In addition, employees may choose to volunteer their time after business hours on behalf of the company or at companysponsored events, and may be credited with Liberty Days for their efforts.





Community-aligned Project Development

We focus on forming meaningful and long-term relationships over the course of developing and operating our renewable energy and infrastructure projects. Our project teams work hard to ensure that close stakeholder engagement is maintained during all project phases, from the time of project inception through the course of its long-term operation.

The community and stakeholder outreach events we hold, such as town halls and landowner dinners, support our ability to build relationships while providing ongoing updates, information, and dialogue regarding project performance and related operations issues that may impact their community.

In many cases, as part of the development of projects, long-term community benefit agreements are put in place. In 2018, we made payments of approximately \$17 million under community contribution agreements, land rentals, or municipal taxes that support local communities where we operate our businesses and facilities.

\$17 million in payments under community contribution agreements, land rentals, or municipal taxes in 2018

As we continue to grow and increase

developing a formalized community

to our customers and employees.

help us to exceed our current charitable



Making significant investments

system upgrades

in business





Customer First Program

A key component of our strategy to improve customer satisfaction is the roll-out of our Customer First initiative, a significant multi-year project that involves the enterprise-wide implementation of new business systems to enable new online customer functionality and service capabilities for our regulated utility business. In turn, this will support improved operational efficiency. Our J.D. Power survey results have highlighted that providing this functionality will improve our customers' experience.

Striving to Provide Top-quartile Customer Service

Providing industry-leading customer service demands that we measure our performance using a world-class benchmark. As acknowledged industry experts, the J.D. Power organization provides us with comprehensive customer satisfaction and operational performance metrics that help us prioritize actions which directly contribute to improved customer experience.

J.D. Power asserts that each of their success factors has specific attributes that influence the customer experience. The relative importance of each factor in relation to overall customer satisfaction is weighted using J.D. Power's proprietary index methodology. The output of our customer satisfaction performance is an overall satisfaction index score that ranges from 100 to 1,000 points. We are focused on using the insights into our customer's priorities to help us shape our areas of focus for improvement.

A key factor in utilizing J.D. Power to measure our customer satisfaction is that we have the opportunity to measure performance quarterly, across all of our commodities and regions, against other geographically proximate top-performing utilities. To support our efforts of continuous improvement, we have committed to becoming recognized as a top-quartile customer service performer by J.D. Power.

Emergency Preparedness

We have invested significant resources into our emergency preparedness practices over the past several years because we believe that comprehensive emergency management is built on proactive and integrated planning, training, exercising, communications, response mechanisms, and recovery practices which are consistent across our enterprise.

Our emergency and risk management teams are equipped with a playbook that identifies response scenarios for all hazard situations, and training to prepare us to react quickly, effectively, and more safely for our customers, employees, contractors, and the public.

In 2018, we conducted crisis media relations training with our emergency and executive management teams. In partnership with an external crisis management firm, we also held internal stakeholder workshops to address key crisis scenarios and develop communications plans related to each. In addition, we procured an incident response system to help us better manage notification to our customers, communities, first responders, and employees in the event of an emergency.

Supplier Partnerships

We are committed to promoting diversity and economic development in the communities we serve. One way of demonstrating this is by doing business with vendors owned by LGBTQIA, minorities, service-disabled veterans, and women. We recognize that creating an inclusive environment for all suppliers is vitally important to the overall success of our company and we seek partnerships with local suppliers, vendors, and contractors who align with our values and principles.

Creating a competitive procurement process, that provides opportunities to the greatest extent possible for sub-contractors and businesses that have a diverse workforce, strongly encourages our prime contractors

and major suppliers to support inclusivity. We believe that excellence in supplier diversity will lead to excellence in supply chain management and will advance our financial and operational goals while providing opportunities for success to a broad and diverse range of businesses in the communities we serve.

In 2018, we released our *Supplier Code of Conduct* to actively engage with supply chain partners and further operationalize our sustainability plan. Our 2023 objective is to have implemented a robust enterprise-wide supplier diversity program that supports the principles outlined in our *Supplier Code of Conduct*.



nvironment Social Governance

MODERNIZED AND AFFORDABLE ENERGY

Our regulated utility subsidiary, Liberty Utilities, sets state

regulator-approved customer rates that reflect the cost to provide customer care, emergency and outage services, maintain and improve infrastructure, and recover operating costs. Prices also reflect the value and obligation of safely and reliably serving our customers.

We are committed to delivering cost-effective and reliable utility services by identifying capital and operational efficiency opportunities that drive lower customer costs. We achieve this by adding more low-cost renewable energy into our supply mix, investing in infrastructure technology to reduce our operating costs, and operating our business as efficiently as possible.

Ensuring the reliability and safety of our assets while providing affordable utility services will help us deliver value to our customers and communities as we navigate the evolving landscape of customer expectations.



Investing \$2.1 billion in regulated utility upgrades

2018 Electricity Rates vs. Neighboring Utilities¹

CALIFORNIA

Other utilities in state \$197

Liberty Utilities \$128

NEW HAMPSHIRE

Other utilities in state \$208

Liberty Utilities \$183

MISSOURI

Other utilities in state \$128

Liberty Utilities \$125

Notes:

1. Rate comparison as of December 4, 2018.

2018 Natural Gas Rates vs. Neighboring Utilities¹

GEORGIA

Other utilities in state \$83

Liberty Utilities \$80

NEW HAMPSHIRE

Other utilities in state \$155

Liberty Utilities \$114

MASSACHUSETTS

Other utilities in state **\$114**

Liberty Utilities \$96

MISSOURI

Other utilities in state \$73

Liberty Utilities \$64

ÇO-

Grid Modernization

Like most industries affected by social and technological changes, the utility industry is undergoing rapid change and disruption. Our communities and customers are growing, demanding more in terms of flexibility, reliability, and resiliency from utility service providers — and everyone wants these things at a highly competitive rate. With respect to our electric utilities, by modernizing our power grids and looking at new ways of storing energy, we can give our customers exactly what they want.

Behind-the-meter storage allows customers the flexibility to manage energy purchases with a battery connected directly to their premises, downstream of the utility electric meter. This battery can charge itself during the night when electricity costs are lowest. Energy stored in the battery can then be used by the customer to reduce electricity purchased during the day when rates are higher. This helps reduce customer energy costs. In a similar way, microgrids (a small collection of customers sharing a battery) can help more extensive operations maximize availability and reduce costs.

Communiities across North America have embarked on Smart City campaigns where they invest in "smarter" infrastructure to attract more businesses to drive economic growth. We are focused on delivering new and better ways to serve the energy needs of these customers so we can be part of the solution. Currently, we have two

opportunity to better understand how to maximize

and better ways to serve the energy needs of these customers so we can be part of the solution. Currently, we have two microgrid pilot projects underway, as well as a behind-the-meter battery storage pilot. We know these technologies are going to be an essential part of our service mix in the future, and we're excited with the

in grid

\$630 million

modernization

Operational Excellence

the value they bring.

Operational excellence is about focusing on and improving our day-to-day service delivery in key areas that are important to our stakeholders. This includes the relentless pursuit of safety, improving our business processes and systems, building our capabilities around how we manage our assets over their lifespan, training our teams to build our competence, and continuously looking for ways to improve what we do and how we do it.

For example, our generation teams are focused on maximizing the output from each energy source. For a traditional thermal plant, we work hard to optimize the facility to deliver maximum efficiency at a stable production. For hydro, wind, and solar facilities, we follow a dynamic process based on managing the natural variability in environmental conditions and challenging electricity market fluctuations.

We recently began work to determine an algorithm that identifies the optimal timing frequency to clean our solar panels. With more than 700,000 solar panels in use throughout our business, cleaning them is an expensive activity. But, because clean panels generate energy more reliably, it's vital to the efficiency of our business that we determine the most productive times of the year to maintain them.





100% Renewable Energy in California

We provide electricity distribution services to business and residential customers in portions of seven California counties in the Lake Tahoe area. A commitment to offering our customers 100 per cent renewable power will be realized by adjusting our supply mix to include low-cost renewable and battery resources.

In 2016, we broke ground on the Luning solar facility in Nevada, which is connected to our service territory in California. This 50 MW project involved the construction of a 120 kV transmission line, approximately 1.6 miles long, from the solar facility to Nevada Energy's existing Table Mountain Substation within our service territory.

Prior to the Luning project, our California operations were meeting 100 per cent of its energy requirements through wholesale power purchase agreements. With the new solar facility, we meet 25 per cent of the energy needs using utility-owned, renewable generation, and our customers will benefit from increased affordability, reliability, and a reduction in GHG emissions.



CHAMPIONING EQUALITY

We recognize the powerful impact of diversity and inclusion on business success. By fostering a supportive

success. By fostering a supportive work culture and business practices which are free from barriers and bias, we attract employees with diverse backgrounds, abilities, and viewpoints to inspire collaboration, creativity, and innovative thinking.

Through celebrating and valuing our differences, we will build a sustainable future for our employees, our communities, and our customers. We are committed to further development of an organizational culture that champions equality to build a more just society. We will continue to develop a diverse and inclusive workplace through fostering employee resource groups that encourage positive diversity and inclusion outcomes, committing to gender balance on boards and in senior leadership, and providing focus to removing unconscious bias from our processes and systems.



Diversity and Inclusion Council

Comprised of representatives from across our business, the Diversity and Inclusion Council was formed in 2018 to play a leadership role in our commitment to diversity and inclusion. To provide informed, authentic leadership for cultural equity and promote diversity and inclusion in the workplace, the Council reviews, addresses, and advises on measures, policies and practices, education, prioritization and talent acquisition, while ensuring we continue to position diversity and inclusion as connected to our organizational purpose, mission, and business strategy.



Our Board implemented a diversity policy



Gender Equality

The promotion of gender diversity in the workplace is a critical component of our strategy to be an employer of choice. We believe that an environment that promotes diversity positively impacts our ability to attract and retain top-notch talent. We've adopted several initiatives and sustainability goals to measure our progress in increasing diversity.

When utilizing internal and external recruiters, we require that recruiters provide gender-diverse shortlisted candidates for all senior roles. To encourage more diverse candidates, in 2018, we undertook an audit and refreshment of job descriptions to remove unconscious bias and support gender neutrality. Additionally, each year gender diversity is considered as part of the executive succession planning process to ensure the development of women for leadership roles.



33% of our Board are women

32% of our total workforce are women

25% of our executive team are women

Promoting Women in Leadership

We recognize the benefits of promoting diversity, both within Algonquin and our subsidiaries, and at the Board of Directors level. We believe that a board and organization with a diverse mix of experience, backgrounds, gender, age, and geographic expertise, representing the locations where we do business, have a positive impact on governance.

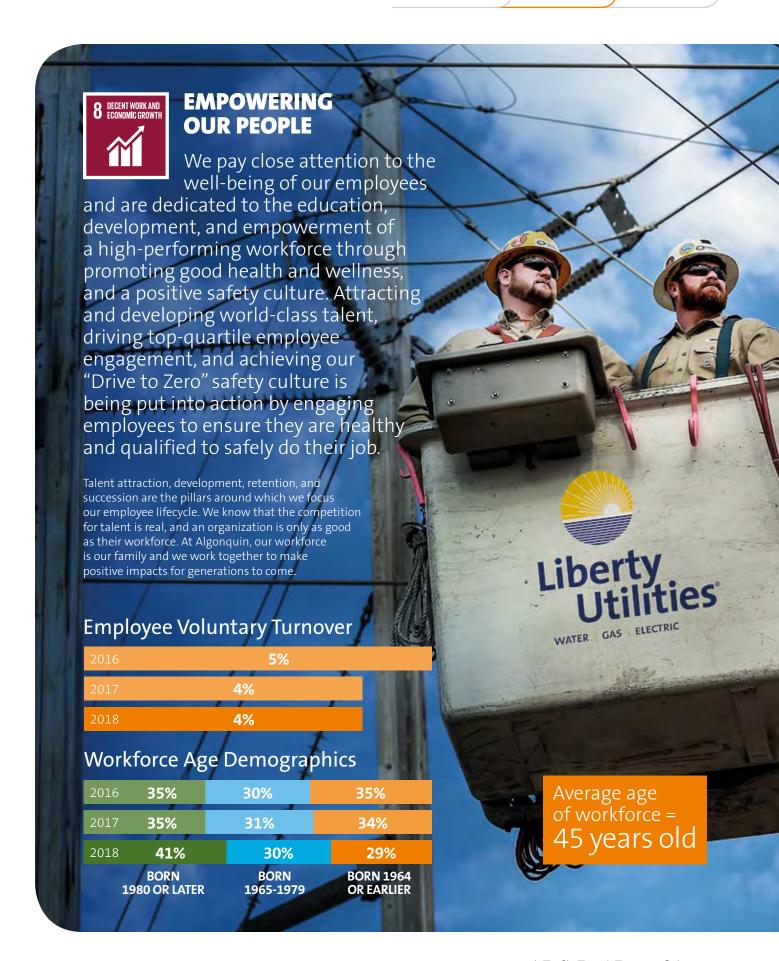
In 2013, our Board of Directors determined that it would be appropriate to increase Board diversity both in terms of gender and regional knowledge. The Board retained the services of a global search firm and required the search firm to develop a list of potential Board candidates that included women and individuals with U.S. regulated utility expertise. As a result of this initiative, we were successful in increasing Board diversity by adding four U.S.-based Board members, including three highly qualified women. The Board has also considered diversity in the composition of its committees. In 2018, 50 per cent of Board committee chairs were women and all of our Board committees included female Board members and geographic representation reflecting our business mix.



Lean In

Lean In Circles are small groups of women that meet regularly to support each other. The goal is to give participants the benefit of peer counseling and to help them reach their goals, whatever their aspirations might be. We have our very own Lean In program across the organization. There are seven active circles across our U.S. offices and one at our head office in Canada. Our goal to create new employee resource groups includes delivering a support package that helps enable all offices to host their own Lean In Circles.

^{*} Percentages as of December 31, 2018.





Workforce planning is a vital factor contributing to organizational performance. Several of the factors identified as crucial to our business center around it: culture; talent attraction and retention; transition and succession; and the safety of our employees.

Our workforce planning strategy is aligned with our business plan and focused on our future staffing needs, managing organizational culture, and anticipating and mitigating risks.
Our employee development programs are unique

and offer challenging and interesting work and learning opportunities for all levels of employees. To ensure inclusivity, each employee, with the help of their leader, creates and manages their *Individual Development Plan*. The plan includes active development goals centered on learning styles and our key business objectives.

To facilitate a leadership culture, we offer several events, programs, and challenges aimed at supporting the development of current and future leaders of our company.



ACHIEVEMENT FUND

Supporting employee education is a strategic investment in the future. The Achievement Fund policy is an employer-offered benefit which encourages employees to expand their knowledge and skills by providing them with learning opportunities that will enhance their job performance and benefit both them and our organization. The program offers employees financial assistance of \$4,000 per year (to a \$30,000-lifetime maximum) to successfully obtain both professional and personal development on their own time through external, government recognized educational institutions.



INTERCONNECT

We strongly believe that when employees understand areas in the company outside of their profession or discipline, it makes them more knowledgeable and more effective in their roles overall. That's why we launched the Interconnect program. The program provides learning opportunities during the workday where employees gain greater knowledge regarding different roles outside of their department (e.g., office staff with field personnel). Interconnects are also an opportunity for management to visit with front-line staff to better understand the priorities, successes, and suggestions for improvements needed across our organization.



APPLIED LEARNING PROJECTS

The Applied Learning Projects (ALP) are a team-based learning program focused on a business challenge or industry disruptor. The ALP helps employees and their teammates think broadly about industry topics and learn about our business while engaging and working with individuals they might not otherwise regularly encounter. Each ALP is a journey of collaboration, researching, learning, and creating relationships across the business.



LEADERSHIP SUMMIT

Every year, we host a Leadership Summit event where over 200 leaders from across North America come together for two days of learning, team building, and strategic alignment. The summit activities include facilitated workshops, speeches from subject matter experts, ALP presentations, and a keynote address from our CEO.

1,716
Interconnect experiences

You Said, We Did

The year-over-year improvement to our *Employee Engagement Survey* score is clear evidence that we're committed to putting actions in place to continue our growth as a top employer. In 2018, our employee engagement was above the North American utilities' average.

Each year, we communicate the importance of the survey to all employees. We use the feedback from survey results to take action and make changes according to what's most important to our employees. The engagement survey awareness campaign we annually conduct demonstrates concrete examples of how we are listening and responding to all employee feedback.





YOU SAID...

Employees wanted to be appropriately and consistently recognized for their hard work and contributions to the company.

...WE DID

In response, we launched the Tell Me Something Good program across our organization. It enables employees and managers to recognize their peers and thank them for their efforts. We also refined our Performance Management criteria to provide greater flexibility in recognizing employee contributions.

Examples
of employee
feedback and how,
as an organization,
we've responded
shows employees that
their opinions matter
and we are listening.



YOU SAID...

Employees wanted an effective process to help identify development needs.

...WE DID

The *Individual Development Plan* process was launched to encourage employees and their supervisors to have ongoing development conversations and create robust employee development plans.



YOU SAID...

Employees wanted to work for an inclusive employer who accepts diversity and supports their health and well-being.

...WE DID

We adopted the Lean In Circle program to support gender equality; launched a *Flex-time*, *Flex-place Policy* enhancing the flexibility of working hours and location; and increased our relationships with charitable organizations, becoming even more involved in supporting the communities where we live and work.

Above industry average employee engagement scores in 2018



^{*} Information provided represents Liberty Utilities, Liberty Power, and Algonquin Power & Utilities Corp.

Social

A Focus and Commitment to Our Safety Strategy and Programs **Sustain Our Safety Plan**

Some of the safety initiatives we have undertaken to build our safety culture include:



ANNUAL SAFETY LEADERSHIP SYMPOSIUMS

Once a year, each of our locations holds a safety symposium event to reinforce our safety culture. Topics are designed to shed light on the key issues that affect our employees and how they can apply information, learnings, and techniques in their everyday work and home lives.



SAFESTART

A safer workplace begins with stronger personal awareness. SafeStart makes safety personal by offering practical techniques to keep workers alert to risk all day, every day. SafeStart's safety and human error reduction training is used by all of our offices and worksites to cut down on common states and errors that could lead to injuries and fatalities. We feel that SafeStart training supports a workplace with safer people, greater compliance, and an exceptional safety culture.



SMITH SYSTEM

The Smith System has been selected for training all employees to make better decisions when behind the wheel. The program is helping drivers make positive changes to their behavior and increase awareness while driving. This has led to a significant return on investment in terms of crash and injury reduction, maintenance and fuel savings, higher employee satisfaction, and, most importantly, lives saved. All employees must participate in the first Smith System training module. Employees who drive vehicles on behalf of the company receive a more intensive training package.



SAFETY EXCELLENCE - ROOTED IN SUSTAINABILITY

Sustained safety improvement requires changing the behavior of executives, managers, supervisors, and front-line employees in core areas: actions related to hazard identification and remediation, modifying incentive systems so they don't encourage under-reporting, developing near miss and safety concern reporting systems that genuinely support reporting, and encouraging behaviors related to following rules and procedures.



PREDICTIVE-BASED SAFETY



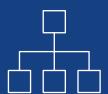
Sustainability Governance:

Building Our Organizational Capabilities and Accountabilities

2023 Sustainability Goals



Embed sustainability



Build a robust compliance framework



Publish
TCFD-aligned
disclosure
starting in 2020



Our commitment to sustainability includes our belief that practicing good governance is an essential element of our pursuit of positive and balanced outcomes for our business, workforce, shareholders, and communities. In this regard, our sustainability plan involves incorporating







Building Effective Governance Practices for the Long Term

An essential component of our ability to successfully develop, implement, and maintain a leading sustainability program is the establishment of appropriate, flexible, and effective governance processes and systems to ensure proper data collection, measurement of our progress, and accountability for long-term performance. Our governance practices center on providing guidance on corporate sustainability priorities, equipping our businesses with the tools and the performance measures to ensure the mitigation of ESG risks, and supporting the achievement of our sustainability objectives. In-depth analysis of the potential risks and opportunities related to our changing climate will take place through our pursuit of the TCFD recommendations.



ESG Activation

Board engagement in overseeing matters related to sustainability is embedded in the mandate of our Corporate Governance Committee, as well as the mandate of the Board Risk Committee for risks associated with environment, social, and governance. Leadership engagement is formalized through the assignment of the responsibility for sustainability strategy development to senior executives. These steps ensure that sustainability matters are represented in executive and strategy discussions, and that progress against established sustainability priorities is regularly communicated to the Corporate Governance Committee. Incorporation of sustainability-related risks is already present and embedded in our enterprise risk management framework, and will continue to develop with the addition of TCFD-aligned disclosure activities.

78% of the **Board of Directors** are independent



Alignment with Management Compensation

Sustainability performance is an essential component of our leadership compensation practices. Our Corporate Scorecard, which impacts annual bonuses for a broad group of senior management, including the Algonquin CEO and executive team, has included sustainability performance metrics for several years.

ESG-related metrics within the scorecard include customer satisfaction, compliance performance, safety results, employee engagement, system reliability, and growth in renewable energy capacity. As we continue to establish new enterprisewide sustainability goals relating to renewable generation mix, carbon intensity, community engagement, our workforce, and other vital factors, the Human Resources and Compensation Committee of our Board will continue to assess the sustainability metrics that will be considered for inclusion in future scorecards.



Compliance and Ethics

A positive compliance culture leads to a workplace where every employee feels they can bring their best self to work, feel valued, and can effectively do their job. Our policies are put in place to ensure everyone has the information they need and can abide by consistent rules and practices. Sometimes, navigating these policies isn't always easy or clear. For that reason, we created a program of services and information resources to help our employees when they have questions and, even more importantly, to address potential problems before they become more significant challenges. *Code of Business Conduct and Ethics* training along with online training for other key compliance policies is completed by employees on an annual basis.

99.7%
employee
completion
of annual Code of
Business Conduct and
Ethics training in 2018

Our Compliance and Ethics program is built on the following employee resources:



EMAIL

Dedicated compliance team and email address employees can use to ask compliance and policy-related questions.



CIVILITY POLICY

Outlines our expectations on treating all employees with respect and dignity, without fear of reprisal.



OMBUDSPERSON

Our Employee Support Line provides independent third-party advice that complements the support leaders and HR typically provide if employees are experiencing difficulty in the workplace.



ETHICS HOTLINE

Provides employees with an anonymous means to report suspected breaches of our *Code of Business Conduct and Ethics*.

Forward-Looking Statements and Forward-Looking Information

This report may contain statements that constitute "forward-looking information" within the meaning of applicable securities laws in each of the provinces of Canada and the respective policies, regulations and rules under such laws or "forward-looking statements" within the meaning of the U.S. Private Securities Litigation Reform Act of 1995 (collectively, "forward-looking information"). The words "anticipates", "believes", "budget", "could", "estimates", "expects", "forecasts", "intends", "may", "might", "plans", "projects", "schedule", "should", "will", "would" and similar expressions are often intended to identify forward-looking information, although not all forward-looking information contains these identifying words. Specific forward-looking information in this report includes, but is not limited to, statements relating to: expected future growth; ongoing and planned projects and initiatives including grid modernization and the Liberty Aquifer Replenishment Facility; expectations regarding generation availability, capacity and production; strategy and goals, including related to reducing greenhouse gas emissions and increasing renewable generation; community investment and engagement efforts; customer savings; continued commitment to maintaining healthy water ecosystems; the proposed Canadian campus and veteran's program; diversity and inclusion efforts; sustainability governance; and the potential impacts of climate change. All forwardlooking information is given pursuant to the "safe harbor" provisions of applicable securities legislation.

The forecasts and projections that make up the forwardlooking information contained herein are based on certain factors or assumptions which include, but are not limited to: the receipt of applicable regulatory approvals and requested rate decisions; the absence of any material equipment breakdown or failure; availability of financing on commercially reasonable terms; the absence of a severe and prolonged downturn in general economic, credit, social and market conditions; the successful and timely development and construction of new projects; the continuation of observed weather patterns and trends; the continued competitiveness of electricity pricing; the absence of a material change in political conditions or public policies and directions by governments; the ability to obtain and maintain licenses and permits; favourable and otherwise, of community engagement efforts and sustainability projects; the reliability of scientific evidence upon which sustainability efforts are based; and the availability of diverse suppliers and qualified personnel to satisfy continued diversity and inclusion efforts.

The forward-looking information contained herein is subject to risks, uncertainties and other factors that could cause actual results to differ materially from historical results or results anticipated by the forward-looking information. Factors which could cause results or events to differ materially from current expectations include, but are not limited to: changes in general economic, credit, social and market conditions; changes in customer energy usage patterns and energy demand; changes related to the anticipated effects of global climate change; advancements in environmental science; the development of new sustainable technologies; the incurrence of environmental liabilities; natural disasters and other catastrophic events; seasonal fluctuations and variability in weather conditions and natural resource availability; reductions in demand for electricity, gas and water; fluctuations in commodity prices; an increase in financing costs or limits on access to credit and capital markets; failure to maintain required regulatory authorizations; failure to comply with and/or changes to environmental laws, regulations and other standards; failure to identify attractive acquisition or development candidates necessary to pursue the Corporation's growth strategy; and the loss of key customers.

There may be other factors that cause actions, events or results not to be as anticipated, estimated or intended. Some of these and other factors are discussed in more detail under the heading "Enterprise Risk Factors" in the Corporation's most recent annual information form and under the heading "Enterprise Risk Management" in the Corporation's most recent management discussion and analysis.

Forward-looking information contained herein is made as of the date of this report and based on the plans, beliefs, estimates, projections, expectations, opinions and assumptions of management on the date hereof. There can be no assurance that forward-looking information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such forward-looking information. Accordingly, readers should not place undue reliance on forward-looking information. While subsequent events and developments may cause the Corporation's views to change, the Corporation disclaims any obligation to update any forward-looking information or to explain any material difference between subsequent actual events and such forward-looking information, except to the extent required by law. All forward-looking information contained herein is qualified by these cautionary statements.

Appendix A:

Sustainability Accounting Standards Board (SASB) Table

The Sustainability Accounting Standards Board's (SASB) mission is to establish industry-specific disclosure standards across environmental, social, and governance (ESG) topics that facilitate communication between companies and investors about financially material, decision-useful information. The nature of our business directs us to consult the Infrastructure Sectors of: Electric Utilities and Power Generators; Gas Utilities and Distributors; and Water Utilities and Services.

The following tables contain those topics we have identified as key issues. As we continue to assess our ESG data, we may choose to include additional SASB metrics in future reports. Unless otherwise stated, data relates only to the sector of our business indicated in the following chart headings.

As of December 31

Electric Utilities and Power Generators

	icetife offitties and rower deficiators		_	AJ OF DECEMBER 32				
Topic	Metric	Measures	Unit of Measure	Codified Metric Code	2016	2017	2018	
		Gross global emissions	Metric tons (t), CO₂e	IF-EU-110a.1	289,465.22	3,092,440.45	2,751,186.64	
	Gross global scope of	Emissions percentage covered under emissions- limiting regulations ¹	Percentage	IF-EU-110a.1	78.81	10.18	3.95	
	emissions	Emissions percentage covered under emissions reporting regulations	Percentage	IF-EU-110a.1	97.29	99.76	99.72	
Greenhouse Gas Emissions and Energy	GHG²	GHG emissions associated with power deliveries	Metric tons (t), CO₂e	IF-EU-110a.2	Not assessed	Not assessed	Not assessed	
Resource Planning	Discussion of long-term	Emissions, emissions reduction	n/a	IF-EU-110a.3	Messag	Message From the CEO (pages 3-5)		
	and short- term strategy or plan to manage scope	targets, and an analysis of performance against those targets	n/a	IF-EU-110a.3	Our Journey of Environmental Stewardship: Making Positive Impacts on Climate Change (pages 16-18)			
	Renewable Portfolio Standards – (RPS)	Number of customers served in markets subject to RPS	Number of Customers	IF-EU-110a.4	91,991	92,360	92,941	
			Percentage	IF-EU-110a.4	100	100	100	
		NO_x	Metric tons (t)	IF-EU-120a.1	36	1,360	1,274	
		(excluding N₂O)	Percentage	IF-EU-120a.1	100	100	100	
		50	Metric tons (t)	IF-EU-120a.1	1	918	754	
		SO _x	Percentage	IF-EU-120a.1	100	100	100	
Air Quality	Air emissions	Particulate	Metric tons (t)	IF-EU-120a.1	18	171	167	
All Quality	of pollutants	matter (PM ₁₀)	Percentage	IF-EU-120a.1	100	100	100	
		Lead (Pb)	Metric tons (t)	IF-EU-120a.1	0	0	0	
			Percentage	IF-EU-120a.1	0	0	0	
		Mercury (Hg)	Metric tons (t)	IF-EU-120a.1	0	0	0	
			Percentage	IF-EU-120a.1	0	0	0	

Electric Utilities and Power Generators (continued)

As of December 31

Topic	Metric	Measures	Unit of Measure	Codified Metric Code	2016	2017	2018
		Total water withdrawn	Thousand cubic meters (m³)	IF-EU-140a.1	13,384.26	10,265.53	12,319.90
Water Management	Total Water	Withdrawn percentage in regions with high or extremely high baseline water stress	Percentage	IF-EU-140a.1	1.35	2.01	1.75
Coal Ash	Amount of coal	Generated	Metric tons (t)	IF-EU-150a.1	37,929	36,215	31,189
Management	combustion residuals (CCR)	Recycled	Percentage	IF-EU-150a.1	48	43	46
Energy	Average retail	Residential customers	\$/kWh	IF-EU-240a.1	0.15	0.14	0.14
Affordability	electric rate for:	Commercial and industrial customers	\$/kWh	IF-EU-240a.1	0.10	0.10	0.10
Workforco	Total recordable incident rate (TRIR)		Rate	IF-EU-320a.1	1.32	2.78	1.76
Workforce Health and	Fatality rate		Rate	IF-EU-320a.1	0	0	0
Safety³	Near miss frequency rate (NMFR)		Rate	IF-EU-320a.1	51.18	30.43	23.85
End-Use Efficiency and	Percentage of electric utility revenues from rate structures that are decoupled ⁴		Percentage	IF-EU-420a.1	54.58	10.29	10.19
Demand		tricity savings from asures, by market ⁵	Megawatt hours (MWh)	IF-EU-420a.3	8,628	6,710	8,146
Nuclear Safety and Emergency Management	Total number of nuclear power units, broken down by U.S. Nuclear Regulatory Commission (NRC) Action Matrix Column		Number	IF-EU-540a.1	0	0	0
	Number of incidents of non-compliance with physical and/or cyber security standards or regulations		Number	IF-EU-550a.1	0	2	3
		rage Interruption Index (SAIDI)	Minutes	IF-EU-550a.2	127.30	140.68	109.84
Grid Resiliency		rage Interruption y Index (SAIFI)	Minutes	IF-EU-550a.2	1.07	1.15	1.03
	Duration	erage Interruption Index (CAIDI), major event days ⁶	Number	IF-EU-550a.2	119.20	122.35	106.67

Notes:

- 1. Emissions-limiting regulations include the California Cap-and-Trade Program and the Regional Greenhouse Gas Initiative Program
- 2. We will be calculating future GHG emissions associated with power deliveries
- 3. Relates to the company as a whole.
- 4. Percentage of decoupled revenue reduced in 2017 as a result of the acquisition of The Empire District Electric Company. The percentage is expected to increase in the near future. Calculated as net revenue from electric utilities that are decoupled divided by net revenue from all electric utilities.
- 5. Relates to Liberty Utilities (Granite State Electric) Corp, Liberty Utilities (Energy North Natural Gas) Corp. and Liberty Utilities (New England Natural Gas Company) Corp.
- 6. CAIDI excludes major events and is calculated as SAIDI/SAIFI.

Gas Utilities and Distributors

As of December 31

Topic	Metric	Measures	Unit of Measure	Codified Metric Code	2016	2017	2018
		Residential customers			11.78	12.62	12.11
Energy Affordability	Average retail gas rate for:	Commercial and industrial customers	\$/MMBTU	IF-GU-240a.1	7.79	8.92	9.73
		Transportation services			1.61	1.50	1.52
		s utility revenues from that are decoupled¹	Percentage	IF-GU-420a.1	45.29%	42.77%	40.51%
End-Use Efficiency		gas savings from easures by market²	Million British Thermal Units (MMBtu)	IF-GU-420a.2	142,725	141,716	179,235
		Reportable pipeline incidents	Number	IF-GU-540a.1	0	0	0
	Number of:	Corrective Action Orders (CAO)	Number	IF-GU-540a.1	0	0	0
Integrity of		Notices of Probable Violation (NOPV)	Number	IF-GU-540a.1	6	18	5
Integrity of Gas Delivery Infrastructure	Percentage of distribution	Cast and/or wrought iron	Percentage by length	IF-GU-540a.2	3.5 [*]	3.1°	2.8 [*]
	pipeline that is:	Unprotected steel	Percentage by length		2.5 [*]	2.3 [*]	1.9°
	Description of efforts to manage the integrity of gas delivery infrastructure, including risks related to safety and emissions		n/a	IF-GU-540a.4		ng the Carbon C ural Gas Supplie	

Notes:

^{1.} Calculated as net revenue from gas utilities that are decoupled divided by total net revenue from all gas utilities.

^{2.} Relates to Liberty Utilities (Granite State Electric) Corp, Liberty Utilities (Energy North Natural Gas) Corp. and Liberty Utilities (New England Natural Gas Company) Corp.

^{*} Represents a number that has been updated or corrected since first publication.

Water Utilities and Services

As of December 31

Торіс	Metric	Measures	Unit of Measure	Codified Metric Code	2016	2017	2018
Energy	Total energ	y consumed	Gigajoules (GJ)	IF-WU-130a.1	87,856	73,178	75,284
Management	Percentage g	rid electricity	Percentage	IF-WU-130a.1	93	90	94
Distribution	Water main rep	placement rate ¹	Rate	IF-WU-140a.1	0.56	0.50	0.74
Network Efficiency		non-revenue er losses	Thousand cubic meters (m³)	IF-WU-140a.2	7,116.68	7,721.75	7,314.77
Water	Average retail	Residential customers	\$/100 cubic feet (CCF)	IF-WU-240a.1	3.61	3.82	3.47
Affordability and Access	water rate ² for:	Commercial and industrial customers	\$/100 cubic feet (CCF)	IF-WU-240a.1	2.90	3.17	3.51
End-Use Efficiency		er savings from ures, by market³	Cubic meters (m³)	IF-WU-420a.2	28,165	21,683	37,280
	regions with hi	sourced from gh or extremely e water stress	n/a	IF-WU-440a.1	in Regions v	ge of All Water W with High or Extr e Water Stress (p	emely High
Water Supply Resilience		ecycled water o customers	Thousand cubic meters (m³)	IF-WU-440a.2	1,313.28	1,397.12	1,822.84
	Discussion of strategies to manage risks associated with the quality and availability of water resources		n/a	IF-WU-440a.3	Healthy Wat	er Ecosystems (p	pages 20-21)
		atment capacity year flood zones	Cubic meters (m³) per day	IF-WU-450a.1	94.635	94.635	94.635
Network Resiliency and Impacts of	to identify and and opportu	n of efforts d manage risks nities related	n/a	IF-WU-450a.4	Message	From the CEO (p	ages 3-5)
Climate Change	on distrib	f climate change oution and nfrastructure	n/a	IF-WU-450a.4	Healthy Wat	cer Ecosystems (p	pages 20-21)

Notes:

- 1. Excludes Texas and Arizona sites.
- 2. Numbers shown as based on water usage rate. Total average water rate/CCF, inclusive of fixed charges is:

	2016	2017	2018
Residential	\$4.53	\$4.71	\$4.32
Commercial/industrial	\$3.27	\$3.60	\$3.98

3. Relates to Liberty Utilities (Granite State Electric) Corp, Liberty Utilities (Energy North Natural Gas) Corp. and Liberty Utilities (New England Natural Gas Company) Corp.

Appendix B:

Global Reporting Initiative Content Index

The *GRI Standards* are the first global standards for sustainability reporting. They feature a modular, interrelated structure, and represent the global best practice for reporting on a range of economic, environmental, and social impacts.

The following tables contain cross-references to content in our 2019 Sustainability Report and other Algonquin disclosures that align with parts of the GRI framework. As we continue to assess our ESG data, we may choose to include additional data in our GRI content index in future reports.

Reports Referenced:

- S Algonquin's 2019 Sustainability Report (published November 7, 2019)
- M Algonquin's 2019 Management Information Circular (published May 7, 2019)
- R Algonquin's 2018 Annual Report (published May 7, 2019)
- A Algonquin's 2018 Annual Information Form (published Feb 28, 2019)
- W Algonquin's Corporate Website www.algonquinpowerandutilities.com

UNIVERSAL STANDARDS Report / Page / Section Name Organizational Profile 102-1 Name of the organization \$ 6-7 - Business Snapshot; A 1.1 - Name, Address, Incorporation 102-2 Activities, brands, products, services \$ 6-7 - Business Snapshot; A 2 - General Development of the Business 102-3 Location of headquarters \$ 6-7 - Business Snapshot; A 1.1 - Name, Address, Incorporation 102-4 Location of operations \$ 6-7 - Business Snapshot; A 1.2 - Intercorporate Relationships 102-5 Ownership and legal form \$ 6-7 - Business Snapshot; A 9 - Operational Metrics/Operations; A 3 - Description of the Business 102-6 Markets served \$ 6-7 - Business Snapshot; A 3 - Description of the Business 102-7 Scale of the organization \$ 6-7 - Business Snapshot; A 3 - Description of the Business 102-8 Information on employees and other workers \$ 6-7 - Business Snapshot; S 22-25 - Social; S 29-35 - Social; S 49-50 - Operational Metrics/Operations; S 51 - Operational Metrics/Operations 102-9 Supply chain \$ 2-6 - Supplier Partnerships; A 3 - Description of the Business; W - Supplier Partnerships; A 3 - Description of the Business; S 51 - Operational Metrics/			
102-1 Name of the organization 102-2 Activities, brands, products, services 5 6-7 - Business Snapshot; A 1.1 - Name, Address, Incorporation 102-3 Location of headquarters 5 6-7 - Business Snapshot; A 1.1 - Name, Address, Incorporation 102-4 Location of operations 5 6-7 - Business Snapshot; A 1.1 - Name, Address, Incorporation 102-5 Ownership and legal form 5 6-7 - Business Snapshot; A 1.2 - Intercorporate Relationships 102-6 Markets served 5 6-7 - Business Snapshot; S 49 - Operational Metrics/Operations; A 3 - Description of the Business 102-7 Scale of the organization 5 6-7 - Business Snapshot; A 3 - Description of the Business 102-8 Information on employees and other workers 5 6-7 - Business Snapshot; S 22-25 - Social; S 29-35 - Social; S 49-50 - Operational Metrics/Operations; S 51 - Operational Metrics/Opera	UNIVI	ERSAL STANDARDS	Report / Page / Section Name
102-2 Activities, brands, products, services 5 6-7 – Business Snapshot; A 2 – General Development of the Business 102-3 Location of headquarters 5 6-7 – Business Snapshot; A 1.1 – Name, Address, Incorporation 102-4 Location of operations 5 6-7 – Business Snapshot 102-5 Ownership and legal form 5 6-7 – Business Snapshot; A 1.2 – Intercorporate Relationships 102-6 Markets served 5 6-7 – Business Snapshot; S 49 - Operational Metrics/Operations; A 3 – Description of the Business 102-7 Scale of the organization 5 6-7 – Business Snapshot; A 3 – Description of the Business 102-8 Information on employees and other workers 5 6-7 – Business Snapshot; S 22-25 – Social; S 29-35 – Social; 5 49-50 – Operational Metrics/Operations; 5 51 – Operational Metrics/Workforce 102-9 Supply chain 5 26 – Supplier Partnerships; A 3 – Description of the Business; W – Supplier Code of Conduct Strategy and Analysis 102-14 Strategy statement from senior decision maker 5 3-5 – Message From the CEO 102-15 Key impacts, risks, and opportunities 5 3-5 – Message From the CEO; S 10 – Our Key ESG Factors; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders	Organizat	tional Profile	
102-3Location of headquarters\$ 6-7 - Business Snapshot; A 1.1 - Name, Address, Incorporation102-4Location of operations\$ 6-7 - Business Snapshot102-5Ownership and legal form\$ 6-7 - Business Snapshot; A 1.2 - Intercorporate Relationships102-6Markets served\$ 6-7 - Business Snapshot; \$ 49 - Operational Metrics/Operations; A 3 - Description of the Business102-7Scale of the organization\$ 6-7 - Business Snapshot; A 3 - Description of the Business102-8Information on employees and other workers\$ 6-7 - Business Snapshot; \$ 22-25 - Social; \$ 29-35 - Social; \$ 249-50 - Operational Metrics/Operations; \$ 51 - Operational Metrics/Workforce102-9Supply chain\$ 26 - Supplier Partnerships; A 3 - Description of the Business; W - Supplier Code of ConductStrategy and Analysis102-14Strategy statement from senior decision maker\$ 3-5 - Message From the CEO; \$ 10 - Our Key ESG Factors; \$ 13 - Seven Key ESG Factors Relevant to Our StakeholdersEthics and Integrity	102-1	Name of the organization	S 6-7 – Business Snapshot; A 1.1 – Name, Address, Incorporation
102-4 Location of operations 5 6-7 – Business Snapshot 102-5 Ownership and legal form 5 6-7 – Business Snapshot; A 1.2 – Intercorporate Relationships 102-6 Markets served 5 6-7 – Business Snapshot; S 49 - Operational Metrics/Operations; A 3 – Description of the Business 102-7 Scale of the organization 5 6-7 – Business Snapshot; A 3 – Description of the Business 102-8 Information on employees and other workers 5 6-7 – Business Snapshot; S 22-25 – Social; S 29-35 – Social; S 49-50 – Operational Metrics/Operations; S 51 – Operational Metrics/Operations; S 51 – Operational Metrics/Workforce 102-9 Supply chain 5 26 – Supplier Partnerships; A 3 – Description of the Business; W – Supplier Code of Conduct Strategy and Analysis 102-14 Strategy statement from senior decision maker 5 3-5 – Message From the CEO 102-15 Key impacts, risks, and opportunities 5 3-5 – Message From the CEO; S 10 – Our Key ESG Factors; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders	102-2	Activities, brands, products, services	S 6-7 – <u>Business Snapshot</u> ; A 2 – <u>General Development of the Business</u>
102-5 Ownership and legal form S 6-7 – Business Snapshot; A 1.2 – Intercorporate Relationships 102-6 Markets served S 6-7 – Business Snapshot; S 49 - Operational Metrics/Operations; A 3 – Description of the Business 102-7 Scale of the organization S 6-7 – Business Snapshot; A 3 – Description of the Business 102-8 Information on employees and other workers S 6-7 – Business Snapshot; S 22-25 – Social; S 29-35 – Social; S 49-50 – Operational Metrics/Operations; S 51 – Operational Metrics/Operations; S 51 – Operational Metrics/Workforce 102-9 Supply chain S 26 – Supplier Partnerships; A 3 – Description of the Business; W – Supplier Code of Conduct Strategy and Analysis 102-14 Strategy statement from senior decision maker S 3-5 – Message From the CEO 102-15 Key impacts, risks, and opportunities S 3-5 – Message From the CEO; S 10 – Our Key ESG Factors; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders Ethics and Integrity	102-3	Location of headquarters	S 6-7 – Business Snapshot; A 1.1 – Name, Address, Incorporation
S 6-7 – Business Snapshot; S 49 - Operational Metrics/Operations; A 3 – Description of the Business 102-7 Scale of the organization S 6-7 – Business Snapshot; A 3 – Description of the Business 102-8 Information on employees and other workers S 6-7 – Business Snapshot; S 22-25 – Social; S 29-35 – Social; S 49-50 – Operational Metrics/Operations; S 51 – Operational Metrics/Workforce 102-9 Supply chain S 26 – Supplier Partnerships; A 3 – Description of the Business; W – Supplier Code of Conduct Strategy and Analysis 102-14 Strategy statement from senior decision maker S 3-5 – Message From the CEO 102-15 Key impacts, risks, and opportunities S 3-5 – Message From the CEO; S 10 – Our Key ESG Factors; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders	102-4	Location of operations	S 6-7 – <u>Business Snapshot</u>
A 3 – Description of the Business 102-7 Scale of the organization S 6-7 – Business Snapshot; A 3 – Description of the Business 102-8 Information on employees and other workers S 6-7 – Business Snapshot; S 22-25 – Social; S 29-35 – Social; S 49-50 – Operational Metrics/Operations; S 51 – Operational Metrics/Workforce 102-9 Supply chain S 26 – Supplier Partnerships; A 3 – Description of the Business; W – Supplier Code of Conduct Strategy and Analysis 102-14 Strategy statement from senior decision maker S 3-5 – Message From the CEO 102-15 Key impacts, risks, and opportunities S 3-5 – Message From the CEO; S 10 – Our Key ESG Factors; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders	102-5	Ownership and legal form	S 6-7 – <u>Business Snapshot</u> ; A 1.2 – <u>Intercorporate Relationships</u>
Information on employees and other workers S 6-7 – Business Snapshot; S 22-25 – Social; S 29-35 – Social; S 49-50 – Operational Metrics/Operations; S 51 – Operational Metrics/Workforce Supply chain Strategy and Analysis 102-14 Strategy statement from senior decision maker S 3-5 – Message From the CEO S 3-5 – Message From the CEO; S 10 – Our Key ESG Factors; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders Ethics and Integrity	102-6	Markets served	
Information on employees and other workers S 49-50 — Operational Metrics/Operations; S 51 — Operational Metrics/Workforce 102-9 Supply chain Strategy and Analysis 102-14 Strategy statement from senior decision maker S 3-5 — Message From the CEO; S 10 — Our Key ESG Factors; S 13 — Seven Key ESG Factors Relevant to Our Stakeholders Ethics and Integrity	102-7	Scale of the organization	S 6-7 – Business Snapshot; A 3 – Description of the Business
Strategy and Analysis 102-14 Strategy statement from senior decision maker S 3-5 – Message From the CEO 102-15 Key impacts, risks, and opportunities S 3-5 – Message From the CEO; S 10 – Our Key ESG Factors; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders Ethics and Integrity	102-8	Information on employees and other workers	S 49-50 – Operational Metrics/Operations;
102-14 Strategy statement from senior decision maker S 3-5 – Message From the CEO 102-15 Key impacts, risks, and opportunities S 3-5 – Message From the CEO; S 10 – Our Key ESG Factors; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders Ethics and Integrity	102-9	Supply chain	
102-15 Key impacts, risks, and opportunities S 3-5 – Message From the CEO; S 10 – Our Key ESG Factors; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders Ethics and Integrity	Strategy a	and Analysis	
S 13 – Seven Key ESG Factors Relevant to Our Stakeholders Ethics and Integrity	102-14	Strategy statement from senior decision maker	S 3-5 – Message From the CEO
	102-15	Key impacts, risks, and opportunities	
VI	Ethics and	d Integrity	
102-16 Values, principles, standards, w – <u>Investor Centre/Other Documents</u> ; and norms of behavior M 39 – <u>Corporate and Board Policies</u>	102-16	Values, principles, standards, and norms of behavior	W – Investor Centre/Other Documents; M 39 – Corporate and Board Policies
Mechanisms for advice S 38 – Compliance and Ethics; W – Investor Centre/Other Documents; and concerns about ethics M 39 – Corporate and Board Policies; W – Ethics Reporting Policy	102-17		

UNIVERS	AL STANDARDS (continued)	Report / Page / Section Name
Governan	ce	
102-18	Governance structure	S 9 – <u>Continuing on Our Path;</u> S 37 – <u>ESG Activation;</u> M 28 – <u>Corporate Governance Practices</u>
102-19	Delegating authority	S 9 – Continuing on Our Path; S 37 – ESG Activation; M 35 – Committees of the Board of Directors; M 38 – Position Descriptions; W – Documents, Other – Mandates
102-20	Executive level responsibility for economic, environmental, and social topics	S 9 – Continuing on Our Path; S 37 – ESG Activation; M 57 – Corporate Scorecard and Results
102-21	Consulting stakeholders on economic, environmental, and social topics	S 3-5 – Message From the CEO; S 10 – Consulting Stakeholders; S 10-11 – GHG Inventory Calculations; S 12 – Consulting Our Stakeholders; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders; S 25 – Striving to Provide Top-quartile Customer Service; S 33 – You Said, We Did
102-22	Composition of the highest governance body and its committees	M 28 – <u>Corporate Governance Practices</u>
102-23	Chair of the highest governance body	M 24 – <u>Director Profiles / Kenneth Moore</u> ; W – <u>Position Description</u> , <u>Chair of the Board</u>
102-24	Nominating and selecting the highest governance body	M 19 – <u>Director Nominees</u>
102-25	Conflicts of interest	W – <u>Code of Business Conduct and Ethics;</u> M 53 – <u>Risk Management and Compensation</u>
102-26	Role of the highest governance body in setting purpose, values, and strategy	S 9 – <u>Continuing on Our Path; S 37 – ESG Activation;</u> M 28 – <u>Corporate Governance Practices</u>
102-27	Collective knowledge of the highest governance body	M 19 – <u>Director Nominees</u>
102-28	Evaluating the highest governance body performance	M 28 – <u>Corporate Governance Practices</u>
102-29	Identifying and managing economic, environmental, and social impacts	S 3-5 – Message From the CEO; S 10 – Our Key ESG Factors; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders
102-32	Highest governance body's role in sustainability reporting	S 9 – <u>Continuing on Our Path</u> ; S 37 – <u>ESG Activation</u>
102-33	Communicating critical concerns	S 38 – Compliance and Ethics; S 26 – Emergency Preparedness
102-35	Remuneration policies	S 37 – Alignment With Management Compensation; M 46 – Executive Compensation
102-36	Process for determining remuneration	S 37 – Alignment With Management Compensation; M 46 – Executive Compensation
102-37	Stakeholders involvement in remuneration	S 37 – Alignment With Management Compensation; M 46 – Executive Compensation
Stakehold	er Engagement	
102-43	Approach to stakeholder engagement	S 3-5 – Message From the CEO; S 10 – Consulting Stakeholders; S 10-11 – GHG Inventory Calculations; S 12 – Consulting Our Stakeholders; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders; S 25 – Striving to Provide Top-quartile Customer Service; S 33 – You Said, We Did

UNIVERS	AL STANDARDS (continued)	Report / Page / Section Name			
Reporting	Reporting Practices				
102-46	Defining report content and topic boundaries	S 3-5 – Message From the CEO; S 10 – Operationalizing Sustainability; S 10 – Our Key ESG Factors; S 10 – Reporting Framework; S 10-11 – GHG Inventory Calculations; S 11 – Base Year Recalculations; S 11 – About This Report; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders			
102-47	List of material topics	S 3-5 – Message From the CEO; S 10 – Our Key ESG Factors; S 13 – Seven Key ESG Factors Relevant to Our Stakeholders			
102-49	Changes in reporting	S 3-5 – Message From the CEO; S 11 – About This Report			
102-50	Reporting period	S 3-5 – Message From the CEO; S 11 – About This Report			
102-51	Date of most recent report	S 2 – <u>Table of Contents</u>			
102-52	Reporting cycle	S 3-5 – Message From the CEO; S 11 – About This Report			
102-53	Contact point for questions regarding the report	S – <u>Back Cover</u>			
102-55	GRI content index	S 44-48 – Global Reporting Initiative Content Index			

ECON	OMIC STANDARDS	Report / Section / Section Name			
Economic	Economic Performance				
201-1	Direct economic value generated and distributed	R 5 – Operating Results			
201-2	Financial implications and other risks and opportunities due to climate change	S 3-5 – Message From the CEO			
Indirect E	conomic Impacts				
	·				
203-1	Infrastructure investments and services supported	S 3-5 – Message From the CEO; W – 2018 Investor Day Presentation			
203-2	Significant indirect economic impacts	S 3-5 – Message From the CEO			
Anti-Corr	uption				
205-2	Communication and training about anti-corruption policies and procedures	S 38 – Compliance and Ethics			
206-1	Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	W – <u>Code of Business Conduct and Ethics</u>			

ENVI	RONMENTAL STANDARDS	Report / Section / Section Name		
Biodivers	sity			
304-2	Significant impacts of activities, products, and services on biodiversity	S 19 – <u>Protecting Biodiversity</u>		
Emission	ıs			
305-1	Scope 1 Emissions	S 11 – Our Emissions Profile; S 53 – Operational Metrics/Environment		
305-2	Scope 2 Emissions	S 11 – Our Emissions Profile; S 53 – Operational Metrics/Environment		
305-4	Emissions intensity	S 11 – Our Emissions Profile; S 53 – Operational Metrics/Environment		
305-5	Reduction in GHG emissions	S 17 – Reduction in GHG emissions from 2017 to 2018		
305-7	Nitrogen oxides (NO $_{\chi}$), Sulphur oxides (SO $_{\chi}$), and other significant air emissions	S 40 – <u>SASB Table/Air Quality</u>		
Water an	nd Effluents			
Interaction	ons with water as a shared resource	S 20-21 – <u>Healthy Water Ecosystems</u>		
Water wi	ithdrawal	S 20-21 – <u>Healthy Water Ecosystems</u>		
	nt impacts of activities, products, ices on biodiversity	S 19 – <u>Protecting Biodiversity</u>		
Habitats	restored or protected	S 19 – Protecting Biodiversity		
Environn	nental Compliance			
LIIVIIOIIII	·			
307-1	Non-compliance with environmental laws and regulations	W — <u>Code of Business Conduct and Ethics</u> ; W — <u>Supplier Code of Conduct</u>		

SOCIA	L STANDARDS	Report / Section / Section Name
Employm		
401-1	New employee hires and employee turnover	S 31 – Empowering our People
Occupation	onal Health and Safety	
	Types of injury, occupational diseases, lost days, and absenteeism, and work-related fatalities	S 34 – <u>Safety Culture</u> ; W – <u>Health and Safety Charter</u>
403-5	Worker training on occupational health and safety	S 35 – <u>Safety Culture</u> ; W – <u>Health and Safety Charter</u>
403-6	Promotion of worker health	S 34-35 – <u>Safety Culture</u> ; W – <u>Health and Safety Charter</u>
403-9	Work-related injuries	S 34-35 – <u>Safety Culture</u> ; S 52 – <u>Operational Metrics/Safety and Reliability</u>
Training a	and Education	
	Programs for upgrading employee skills and transition assistance programs	S 32 – <u>Future-proofing our Workforce</u>
Diversity	and Equal Opportunity	
405-1	Diversity of governance bodies and employees	S 29-30 – <u>Championing Equality;</u> S 51 – <u>Operational Metrics/Workforce;</u> M 28 – <u>Corporate Governance Practices;</u> W – <u>Diversity Policy</u>
Non-Disci	rimination	
406-1	Incidents of discrimination and corrective actions taken	S 38 – <u>Compliance and Ethics</u>
Child Labo	our	
408-1	Operations and suppliers at significant risk for child labour	W – <u>Supplier Code of Conduct</u>
Human Ri	ights Assessment	
412-2	Employee training on human rights policies or procedures	S 38 – Compliance and Ethics
Local Com	nmunities	
	Operations with local community engagement, impact assessments, and development programs	S 22-26 – <u>Local, Responsive, and Caring</u>
Public Pol	icy	
415-1	Political contributions	W – <u>Code of Business Conduct and Ethics</u>
Customer	Health and Safety	
	Incidents of non-compliance concerning the health and safety impacts of products or services	W – <u>Code of Business Conduct and Ethics</u>

Appendix C:

Operational Metrics

We assess our performance at many levels to support continual improvement in all areas of our business. As part of our commitment to transparently communicate our performance, we have developed a set of operational metrics we feel contribute value in assessing our ESG data.

The following tables contain operations, workforce, governance, safety and reliability, and environment metrics that align with the topics we consider significant factors

to our business. We have obtained third-party assurance for the emissions data included in this table in order to align with the verification of other emissions data calculations included in our 2019 Sustainability Report.

As we continue to assess our ESG data, we may choose to include additional metrics to our Operational Metrics tables.

Operations

		2016	2017	2018
Utility customers (in thousands)				
Electricity		93	265	266
Natural gas		293	337	338
Water and wastewater		178	160	164
_	Total	565	762	768
Energy delivered to our customers				
Electricity (in GWh) – Liberty Utilities (retail)		1,462	5,843	6,524
Electricity (in GWh) – Liberty Power¹ (contractual a	agreements)	3,504	4,543	4,656
Electricity (in GWh)	Total (in GWh)	4,966	10,386	11,180
Electricity (in PJ)	Total (in PJ)	17.88	37.39	40.25
Natural gas (in PJ)		28.18	31.96	36.5
	Total (in PJ)	46.06	69.35	76.75
Water and wastewater services provided to our co	ustomers			
Wastewater treated (millions of gallons)		2,231	2,226	2,282
Water provided (millions of gallons)		17,936	16,905	15,823
Electricity generation capacity (in MW) ²				
Coal		0	213	213
Wind		1,052	1,052	1,127
Natural gas/ thermal		127	1,497	1,497
Hydroelectric		123	138	135
Solar		30	90	165
	Total (in MW)	1,332	2,990	3,137
Renewable energy total (in MW)		1,205	1,281	1,427
Renewable energy portfolio ³	%	90	43	45

Operations (continued)

		2016	2017	2018
Net electricity generated (in GWh) ⁴				
Coal		0	987	841
Wind		2,583	3,660	3,623
Natural gas/thermal		254	3,901°	4,380°
Hydroelectric		605	624	586
Solar		61	208	324
	Total (in GWh)	3,503	9,380°	9,754 [*]
Renewable energy generation	GWh	3,250	4,492	4,532
Renewable energy generation	%	93	48°	46°
Electricity purchased by Algonquin and resold for customer use (in GWh)				
From renewables (wind, solar, hydro) ⁵		0	801	760
From the grid, mixed sources		1,046	4,964	5,412

Notes:

Comparative figures between 2016 and 2017 may have material differences as a result of the acquisition of The Empire District Electric Company in 2017.

- The Liberty Power Business Group generates and sells electrical energy produced by its diverse portfolio
 of non-regulated renewable power generation and clean power generation facilities located across North America.
 At the end of 2018, approximately 86% of its output is sold pursuant to long term contractual agreements.
- 2. Electricity generation capacity relates to generating assets the Company owns and manages.
- 3. The percentage of renewable energy generation decreased in 2017, when The Empire District Electric Company, which owned coal facilities, was acquired. The company is in the process of phasing out its coal generation and replacing it with wind generation.
- 4. Net Electricity Generation relates to generating assets the Company owns and manages. It excludes latan and Plum Point, which are not company managed.
- 5. These amounts relate to wind Power Purchase Agreements held by The Empire District Electric Company. It excludes solar generation from Luning Energy LLC which is company owned.
- * Represents a number that has been updated or corrected since first publication.

Workforce

	2016	2017	2018
Algonquin Power Utilities Corp. employees	1,490	2,241	2,277
Employees by generation			
Generation Z	0.5%	0.4%	1.1%
Millennials	34.0%	33.8%	39.1%
Generation X	30.0%	30.5%	30.2%
Baby boomers	35.0%	34.9%	29.4%
Silent generation	0.5%	0.4%	0.2%
Employees by union / salaried			
Salaried	75%	67%	69%
Unionized	25%	33%	31%
Average age of workforce (years)			
All employees	45	45	45
Male employees	46	45	45
Female employees	44	45	44
Workplace diversity and inclusion			
Women in workforce	32.14%	31.15%	32.00%
Self-identified as veterans	1.44%	1.33%	1.89%
Self-identified as minorities	0.01%	0.13%	6.67%
Self-identified minorities in leadership role	0.41%	0.68%	4.76%
Women in the top 10% of salaries	21.62%	22.00%	29.67%
Leadership			
Employees in leadership roles (men, women, and minorities)	6.89%	6.07%	6.45%
Women in leadership roles	21.98%	25.19%	30.61%
Women versus men in leadership team (average pay)	88.69%	94.39%	98.75%
Women versus men in front line team (average pay)	68.28%	62.76%	62.84%
Executive			
Executive Team members	8	8	8
	0		
Women on Executive Team	12.5%	12.5%	25%

Governance

	2016	2017	2018
Board composition			
Independent directors (#)	7	7	7
Average tenure (in years)	5.2	5.8	6.8
Directors with utility/energy experience (#)	6	6	6
Directors with governance and risk management experience (#)	7	7	8
Directors with senior executive experience (#)	6	6	6
Female directors (#)	3	3	3
Total Board Members (#)	9	9	9

Safety and Reliability

Employees			
Recordable Injury Rate (RIR) ⁶	1.32	2.78	1.76
Lost Time Injury Frequency Rate (LTIFR) – employees	0.14	0.41	0.18
Near Miss Frequency Rate	51.58	30.43	23.85
Fatalities – employees	0	0	0
Fatalities – contractors	0	0	0

Energy reliability			
Electricity grid reliability — <i>System Average Interruption Duration Index</i> ("SAIDI"), under normal operations (in minutes).	127.30	140.67	109.84
Electricity grid reliability — System Average Interruption Frequency Index ("SAIFI")	1.07	1.15	1.03
Electricity grid reliability – Customer Average Interruption Frequency Index ("CAIDI")	119.12	122.35	106.67

Notes:

^{6.} The number of injuries per 200,000 hours worked by employees and Algonquin's permanent contractors. Similar to U.S. Total Recordable Injury Rate in the U.S.

Environment

	2016	2017	2018
GHG emissions (in metric tons of CO ₂ e)			
Scope 1 emissions			
Power generation – thermal	273,487	3,084,242	2,742,513
Power generation – hydroelectric	107	118	121
Power generation – solar	0.74	0.04	87.26
Power generation – wind	5.99	1.40	145.16
Utilities – electric, gas, and water/wastewater	86,103	94,849	95,030
Scope 2 emissions			
Power generation – thermal	800	5,222	6,922
Power generation – hydroelectric	655	631	616
Power generation – solar	118	129	193
Power generation – wind	1,153	1,041	1,049
Utilities – electric, gas, and water/wastewater	38,787	34,085	34,054
Total emissions			
Power generation – thermal	274,287	3,089,463	2,749,435
Power generation – hydroelectric	762	749	737
Power generation – solar	118	129	280
Power generation – wind	1,159	1,042	1,195
Utilities – electric, gas, and water/wastewater	124,890	128,934	129,085
Total GHG emissions from all operationally controlled assets	401,216	3,220,317	2,880,731
Total emissions from power generation (metric tons of CO ₂ e)	276,326 [°]	3,091,384	2,751,646
Total power generation (MWh)	3,503,492°	9,379,882	9,753,968
GHG emission Intensity (metric tons of CO ₂ e/MWh)	0.0789 [°]	0.3296 [°]	0.2821

Notes

^{*} Represents a number that has been updated or corrected since first publication.

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Our Commitment to Sustainability

Algonquin Power & Utilities Corp. is committed to contributing to a sustainable energy and water future. We aim to be a top quartile global utility, known for exceptional performance in terms of safety, customer experience, employee engagement, inclusion, environmental/social responsibility and financial results.

The following principles are core to our organization:

- We are committed to building and operating our business such that we make a positive and durable contribution to a sustainable energy and water future.
- We support the global goal of limiting planetary temperature rise to less than 2 degrees Celsius this century to reduce the impact of climate change.
- ❖ We strive to deploy emerging technologies and business models in the delivery of clean, efficient and reliable energy at a fair price to facilitate the transition to low carbon emission communities.
- We provide safe and reliable drinking water and wastewater services while maintaining healthy water eco-systems by employing best practices in efficiency, conservation, reuse and recycling of water.
- ❖ We believe diversity and inclusion results in a more just society, resilient communities, and a high-performing workforce.
- We seek open dialogue and collaboration with the communities in which we operate.
- ❖ We encourage good health and wellness for our employees and foster a positive safety culture that promotes ownership, accountability and care.
- ❖ We view our suppliers, vendors and contractors as integral partners and seek their alignment with our values and principles.
- We view good governance practices as an essential element in the pursuit of positive and balanced outcomes for our business, our workforce, our shareholders and our communities.

Our business systems will support the measurement, management, reporting and continuous improvement of our sustainability performance. This Sustainability Policy will be reviewed and refined periodically by our Executive and Board leadership.

Ian Robertson

Chief Executive Officer
Algonquin Power & Utilities Corp.

September, 2018





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