

# Welcome to your CDP Climate Change Questionnaire 2020

## C0. Introduction

### C0.1

#### **(C0.1) Give a general description and introduction to your organization.**

Alliant Energy Corporation (NASDAQ: LNT) is a Midwest U.S. energy company with annual operating revenues of more than \$3.6 billion. Our company is primarily engaged in electric generation and the distribution of electricity and natural gas. We serve approximately 970,000 electric and 420,000 natural gas customers through our two public utility subsidiaries, Interstate Power and Light (IPL) and Wisconsin Power and Light (WPL). IPL provides retail electric and gas service in Iowa, and sells electricity to wholesale customers in Minnesota, Illinois and Iowa. WPL provides retail and wholesale electric and retail gas service in Wisconsin. Headquartered in Madison, Wisconsin, Alliant Energy has approximately 3,600 employees and more than 24,000 shareowners of record. Based on electric sales, the largest cities served in Iowa and Wisconsin are Cedar Rapids and Beloit, respectively.

**FORWARD-LOOKING STATEMENTS:** This report includes forward-looking statements. These statements can be identified because they include words such as “expect,” “may,” “believe,” “anticipate,” “intend,” “plan,” “project,” “will,” “projections,” “forecast,” “outlook,” “estimate,” “target,” “goal,” or other words or expressions of similar import. Similarly, statements that describe future plans or strategies, our clean energy vision, transitioning our energy resources, planned resource additions, and future emissions reductions are forward-looking statements. These forward-looking statements are subject to risks and uncertainties that could cause actual results to differ materially from those expressed in, or implied by, the statements. Actual results could be materially affected by the following factors, among others: regulatory approvals; unanticipated construction issues, delays or expenditures; failure of equipment and technology to perform as expected; political conditions in Alliant Energy’s service territories; changes to Alliant Energy’s access to capital markets; economic conditions in Alliant Energy’s service territory; and other risk factors discussed to Alliant Energy’s most recent Annual Report on Form 10-K filed with the U.S. Securities and Exchange Commission (“SEC”), including the section therein titled “Risk Factors,” and its other filings with the SEC. Alliant Energy undertakes no obligation to update publicly such forward-looking statements to reflect subsequent events or circumstances. These forward-looking statements are made as of August 25, 2020 and Alliant Energy disclaims any obligation to update these statements.

### C0.2

#### **(C0.2) State the start and end date of the year for which you are reporting data.**

	Start date	End date	Indicate if you are providing emissions data for past reporting years	Select the number of past reporting years you will be providing emissions data for
Reporting year	January 1, 2019	December 31, 2019	Yes	3 years

## C0.3

**(C0.3) Select the countries/areas for which you will be supplying data.**

United States of America

## C0.4

**(C0.4) Select the currency used for all financial information disclosed throughout your response.**

USD

## C0.5

**(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your chosen approach for consolidating your GHG inventory.**

Equity share

## C-EU0.7

**(C-EU0.7) Which part of the electric utilities value chain does your organization operate in? Select all that apply.**

Row 1

### Electric utilities value chain

Electricity generation

Distribution

### Other divisions

Smart grids / demand response

Battery storage

## C1. Governance

### C1.1

**(C1.1) Is there board-level oversight of climate-related issues within your organization?**

Yes

## C1.1a

**(C1.1a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for climate-related issues.**

Position of individual(s)	Please explain
Board-level committee	The Nominating and Governance Committee is responsible for general oversight of environmental, social and governance (ESG) issues, including review and approval of carbon dioxide (CO2) reduction goals. This Committee oversees the development of an ESG program that identifies successful outcomes and defines plans to achieve those goals. This committee consists solely of independent directors.
Board-level committee	The Operations Committee reviews and oversees environmental and safety issues. The Operations Committee reports up to the full Board of Directors. Any strategic projects recommended by the Operations Committee require approval by the full Board of Directors. This includes strategic projects, such as expansion of renewable generation including wind and solar projects. This committee consists solely of independent directors.
Chief Executive Officer (CEO)	Alliant Energy's Chief Executive Officer (CEO), along with other company executives, have overarching responsibility for company strategy, compliance and operations, including climate change and carbon emissions.
Board Chair	Our CEO also serves as Board Chair - see response for CEO.
Other, please specify Board of Directors	Responsible for overseeing our vision and mission, strategic plan and overall corporate risk profile – including the impact climate and carbon risks and environmental policy have on these matters.

## C1.1b

**(C1.1b) Provide further details on the board's oversight of climate-related issues.**

Frequency with which climate-related issues are a scheduled agenda item	Governance mechanisms into which climate-related issues are integrated	Please explain
Other, please specify The entire Board of Directors meets annually where climate-related issues are covered as part of broader strategic plan updates. Various Board committees also review climate-related issues periodically throughout the year.	Reviewing and guiding strategy Reviewing and guiding major plans of action Reviewing and guiding risk management policies	Annually, the Nominating and Governance Committee of the Board of Directors reviews the company's Corporate Responsibility Report which includes a section on Energy and Climate, detailing our emissions-reduction goals and our efforts to achieve them.

	<p>Reviewing and guiding annual budgets</p> <p>Reviewing and guiding business plans</p> <p>Setting performance objectives</p> <p>Monitoring implementation and performance of objectives</p> <p>Overseeing major capital expenditures, acquisitions and divestitures</p> <p>Monitoring and overseeing progress against goals and targets for addressing climate-related issues</p>	<p>Annually, the full Board reviews the company's strategic plan which includes the addition of renewable resources that will result in emissions reductions.</p> <p>Annually, the Board reviews and approves the company's operating plan and budget which includes capital expenditures to achieve our strategic plan, which includes adding renewable resources.</p> <p>Annually, the Board reviews the top risks identified by the company's Enterprise Risk Management process.</p> <p>Annually, the Compensation and Personnel Committee reviews performance goals for the CEO and executive officers and assesses performance against those goals. Goals include achieving strategic targets related to our renewable portfolio and expanding clean and distributed energy.</p> <p>As needed, the Operations Committee reviews major projects to implement our emissions reduction strategies, including adding renewable resources, and recommends action to the full Board. In addition, climate-related emerging policy and regulatory issues are reviewed by the appropriate Board committees and the entire Board as necessary on legislative, environmental rule and energy market matters that may impact implementation of our strategic plan which supports achieving the company's carbon dioxide (CO2) emission reduction goals.</p>
<p>Other, please specify</p>	<p>Reviewing and guiding strategy</p> <p>Reviewing and guiding major plans of action</p> <p>Reviewing and guiding risk management policies</p>	<p>This is a redundant question in the CDP ORS. Please reference response directly above.</p>

	<p>Reviewing and guiding annual budgets</p> <p>Reviewing and guiding business plans</p> <p>Setting performance objectives</p> <p>Monitoring implementation and performance of objectives</p> <p>Overseeing major capital expenditures, acquisitions and divestitures</p> <p>Monitoring and overseeing progress against goals and targets for addressing climate-related issues</p>	
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## C1.2

**(C1.2) Provide the highest management-level position(s) or committee(s) with responsibility for climate-related issues.**

Name of the position(s) and/or committee(s)	Responsibility	Frequency of reporting to the board on climate-related issues
Other, please specify Vice President of Business Planning	Both assessing and managing climate-related risks and opportunities	Quarterly
Other, please specify Director of Environmental Services and Corporate Sustainability	Both assessing and managing climate-related risks and opportunities	Quarterly
Other C-Suite Officer, please specify Executive Vice President, General Counsel & Corporate Secretary	Both assessing and managing climate-related risks and opportunities	Quarterly

## C1.2a

**(C1.2a) Describe where in the organizational structure this/these position(s) and/or committees lie, what their associated responsibilities are, and how climate-related issues are monitored (do not include the names of individuals).**

Alliant Energy's CEO has overarching responsibility for company strategy and operations including climate change and carbon emissions. The Vice President of Business Planning reports to the Executive Vice President, General Counsel & Corporate Secretary who reports to the CEO. The Environmental Services and Corporate Sustainability Director reports to the Vice President of Business Planning.

Executive Vice President, General Counsel & Corporate Secretary: Responsible for Legal, Compliance, Regulatory, Public Affairs and Community Affairs, Corporate Secretary, Real Estate Right of Way and Business Planning

Vice President of Business Planning: Responsible for the long-term planning and development of generation resources, energy market planning and operations, fuel supply planning and operations, and for developing an energy resource and infrastructure plan that takes advantage of newer technologies to meet customer needs for cleaner, affordable energy.

Director of Environmental Services and Corporate Sustainability responsibility: Establishes and leads an aligned environmental and sustainability strategy, operational plans and budgets to meet corporate environmental and corporate sustainability objectives.

Climate-related issues are primarily monitored through our Environmental Services and Corporate Sustainability department and also Public Affairs including potential policies, regulation and legislation. In addition, other departments also monitor climate-related issues as these may affect routine operations or business planning - for example, evolving technology trends or supporting customer requests through innovative energy solutions.

The Director of Environmental Services and Corporate Sustainability further guides establishment of climate-related strategies to guide company initiatives that support decarbonization such as renewables expansion and electrification. In addition, leads efforts to establish and update the company's Clean Energy Vision shown below. Progress on achievement of carbon dioxide (CO<sub>2</sub>) emissions reductions is tracked on a monthly basis and results are reported to the CEO and Executive Management team.

### **Alliant Energy's Clean Energy Vision**

Successful execution of our strategy will enable us to achieve our clean energy initiatives.

#### **By 2030:**

- Reduce our fossil fuel generation CO<sub>2</sub> emissions by 50% from 2005 levels
- Reduce our fossil fuel generation water withdrawal by 75% from 2005 levels

#### **By 2040:**

- Eliminate all coal from our generation fleet

**By 2050:**

- Aspire to achieve net-zero CO2 emissions from the electricity we generate

We will continue to review and update our Sustainable Energy strategy and Clean Energy Vision, based on future economic developments, evolving energy technologies and emerging trends in the communities we serve.

## C1.3

**(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?**

	Provide incentives for the management of climate-related issues	Comment
Row 1	Yes	

### C1.3a

**(C1.3a) Provide further details on the incentives provided for the management of climate-related issues (do not include the names of individuals).**

Entitled to incentive	Type of incentive	Activity incentivized	Comment
Other, please specify Director of Environmental Services and Corporate Sustainability	Monetary reward	Emissions reduction target Other (please specify) Achievement of Alliant Energy's Clean Energy Vision through successful implementation of the company's strategic plan.	The Director of Environmental Services and Corporate Sustainability is reviewed annually for performance relative to his job duties, which include monitoring carbon dioxide (CO2) emissions reductions, and relative to achieving Alliant Energy's strategic plans, which include expansion of clean and distributed energy and other efforts that support Alliant Energy's Clean Energy Vision.
All employees	Monetary reward	Emissions reduction project Energy reduction project Efficiency project Other (please specify) Achievement of Alliant Energy's Clean Energy Vision through successful implementation of the company's strategic plan.	All employees are assessed at the end of the calendar year for performance relative to their job responsibilities. Alliant Energy provides performance-based incentives for certain employees specifically related to development and execution of the company's strategic business plans that when implemented will provide for reduced greenhouse gas emissions, potentially including: tracking and implementing carbon dioxide (CO2) reduction targets;

			retirement of coal-fired facilities; expansion of company-owned renewable energy sources (primarily wind); enabling customer-owned distributed generation and renewable purchase power agreements (PPAs); plus, on-going support for customer demand-side management including conservation and energy efficiency programs.
Chief Executive Officer (CEO)	Monetary reward	Emissions reduction target Other (please specify) Achievement of Alliant Energy's Clean Energy Vision through successful implementation of the company's strategic plan.	The CEO is reviewed annually by the Compensation and Personnel Committee and the Board for performance relative to achieving Alliant Energy's strategic plans, which include expansion of clean and distributed energy and other efforts that support Alliant Energy's Clean Energy Vision, WPL's Clean Energy Blueprint, and development of IPL's Clean Energy Blueprint.
Corporate executive team	Monetary reward	Other (please specify) Achievement of Alliant Energy's Clean Energy Vision through successful implementation of the company's strategic plan.	Executives are reviewed annually for performance relative to achieving Alliant Energy's strategic plans, which include expansion of clean and distributed energy and other efforts that support Alliant Energy's Clean Energy Vision.
Other, please specify Vice President of Business Planning	Monetary reward	Other (please specify) Achievement of Alliant Energy's Clean Energy Vision	The Vice President of Business Planning is reviewed annually for performance relative to achieving Alliant Energy's strategic plans, which include expansion of clean and distributed energy and other efforts that support Alliant Energy's Clean Energy Vision, WPL's Clean Energy Blueprint, and development of IPL's Clean Energy Blueprint.
Other, please specify Executive Vice President, General Counsel & Corporate Secretary	Monetary reward	Other (please specify) Achievement of Alliant Energy's Clean Energy Vision through successful implementation of the company's strategic plan.	Executive Vice President, General Counsel & Corporate Secretary is reviewed annually for performance relative to achieving Alliant Energy's strategic plans, which include expansion of clean and distributed energy and

		other efforts that support Alliant Energy's Clean Energy Vision.
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## C2. Risks and opportunities

### C2.1

**(C2.1) Does your organization have a process for identifying, assessing, and responding to climate-related risks and opportunities?**

Yes

#### C2.1a

**(C2.1a) How does your organization define short-, medium- and long-term time horizons?**

	From (years)	To (years)	Comment
Short-term	1	5	
Medium-term	6	15	
Long-term	16	40	

#### C2.1b

**(C2.1b) How does your organization define substantive financial or strategic impact on your business?**

Alliant Energy defines substantive financial or strategic impact on its business aligned with the final rules of the U.S. Securities and Exchange Commission (SEC). These results are described in the Management discussion and analysis (MD&A) section the company's annual Form 10-K and other periodic public filings to the SEC. The MD&A provides an overview of the company's strategy as well as qualitative discussion and quantitative results on the company's performance relative to implementation of the strategy. Primary indicators of financial results indicators include net income and earnings per share. Additional quantitative indicators include capital investments expanding company-owned renewable generation as well as investments in supporting resources and modernizing infrastructure that will enable maximizing its operation on the electricity grid. In addition, updates and progress on Alliant Energy's voluntary environmental-related goals including its Clean Energy Vision are periodically disclosed in the MD&A section of its SEC filings.

### C2.2

**(C2.2) Describe your process(es) for identifying, assessing and responding to climate-related risks and opportunities.**

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**Value chain stage(s) covered**

Direct operations  
Upstream  
Downstream

**Risk management process**

Integrated into multi-disciplinary company-wide risk management process

**Frequency of assessment**

More than once a year

**Time horizon(s) covered**

Short-term  
Medium-term  
Long-term

**Description of process**

Risk Management:

Identification and reporting - We evaluate and report on potential risk factors, including risks that may be climate-related or carbon-related, in our company's annual Form 10-K report to the U.S. Securities and Exchange Commission. Risks that may be associated with climate or carbon concerns can be physical risks associated with extreme weather events, regulatory risks associated with changing regulatory requirements and rate recoveries, and economic risks associated with additional required capital expenditures. Responses to identified climate-related risks are implemented as part of the company's broader strategy.

Assessment and response - We have an enterprise risk management program to assess, communicate and manage significant risks in a structured framework. The risk assessment process identifies key themes and trends, quantifies our key risks, and develops management plans and strategies. The Board of Directors is responsible for overseeing management of our overall risk profile. Programs, plans and actions are put in place to respond to risks that may be associated with climate or carbon concerns.

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**Value chain stage(s) covered**

Direct operations  
Upstream  
Downstream

**Risk management process**

Integrated into multi-disciplinary company-wide risk management process

**Frequency of assessment**

More than once a year

### **Time horizon(s) covered**

Short-term

Medium-term

Long-term

### **Description of process**

Strategic Plan Opportunities:

Opportunities related to meeting the potential challenges posed by climate change are considered as part of the broader process that supports development of the company's business strategy and associated plans. Alliant Energy executives annually present to the Board a strategic business plan. Alliant Energy strives to accelerate emissions reductions as part of its Clean Energy Vision to implement a strategy to affordably meet the energy needs of customers and recognize the importance of using resources in efficient and environmentally responsible ways. In addition, focusing on clean energy will help make our communities more competitive for economic development. Our strategy will continue to adapt based on future economic developments and evolving energy technologies and trends in the communities we serve.

Our Clean Energy Vision:

Successful execution of our strategy will enable us to achieve our clean energy initiatives.

By 2030:

Reduce our fossil fuel generation carbon dioxide (CO<sub>2</sub>) emissions by 50% from 2005 levels

Reduce our fossil fuel generation water withdrawal by 75% from 2005 levels

By 2040:

Eliminate all coal from our generation fleet

By 2050:

Aspire to achieve net-zero CO<sub>2</sub> emissions from the electricity we generate

We will continue to review and update our Sustainable Energy strategy and Clean Energy Vision, based on future economic developments, evolving energy technologies and emerging trends in the communities we serve.

Alliant Energy's strategic plans have been influenced by climate change as we continue to pursue our Clean Energy Vision and its associated goals as part of broader efforts to decarbonize the economy. Our company is transitioning our energy to a cleaner mix and expanding cost-effective renewable resources and implementing alternative energy resources. We're also investing in our electric and gas distribution infrastructure, making it stronger, smarter and more adaptable to support evolving energy technologies.

Alliant Energy's capital investments directly reflect our strategic plan opportunities. We have issued \$1.1 billion in green bonds to finance affordable renewable energy projects.

We expanded our utility-owned wind farms in 2019 and 2020 with an additional 1,150 megawatts - making Alliant Energy the 3rd largest utility owner-operator of regulated wind in the U.S. In 2020, we also achieved our goal that 30% of our energy mix come from carbon-free renewable resources, ten years early. Our company has planned investments of \$780 million to build solar projects totaling 1,000 megawatts by 2023 – enough to power 260,000 homes a year. In addition, over \$2.2 billion in planned investments to build smarter and more resilient energy infrastructure.

One example of how our long-term business strategy has been influenced by climate change is our deliberate reshaping of our portfolio of energy resources by retiring fossil-fueled electric generation and expansion of company-owned renewables to improve our environmental performance and reduce carbon dioxide (CO2) emissions. We have already retired over 30% of our fossil-fueled generation capacity since 2005. This includes over 1,100 megawatts (MW) of retired coal-fired generation. In addition, our company plans to retire another 414 MW of coal generation by the end of 2022.

Our customer-focused strategy is further identifying opportunities to support efforts to address climate change. Our growing portfolio of customer-focused energy solutions includes programs and products that support reductions in CO2 emissions. This includes our energy efficiency programs that help customers reduce their energy usage and related costs. Cumulative lifetime energy saving results through 2019 for our energy efficiency programs were approximately 3.5 million megawatt-hours and 41 million therms. In addition to our Second Nature program, we offer various renewable energy options for customers. We enable even more renewable energy growth by connecting customer-owned and Independent Power Producer (IPP) projects. Our customer-owned distributed renewables have doubled in the last five years to over 117 megawatts installed nameplate capacity. Our renewable IPP projects provide over 137 megawatts of capacity to our electric system with roughly 74% from wind projects.

We are also working to increase business adoption of electric forklifts, electric truck refrigeration units, and replacing commercial transportation and delivery fleets with electric vehicles (EVs). Our company also supports residential adoption by sponsoring various rebates and educational events. Through electrification, we believe that electricity can enable broader economy-wide carbon reductions.

## C2.2a

### (C2.2a) Which risk types are considered in your organization's climate-related risk assessments?

	Relevance & inclusion	Please explain
Current regulation	Relevant, always included	Alliant Energy tracks current regulation to ensure compliance with applicable compliance requirements. Examples include the Environmental Protection Agency (EPA) Mandatory Greenhouse Gas Reporting requirements under 40 CFR Part 98. In addition, the New

		<p>Source Review and Title V air permitting requirements for CO<sub>2</sub> under the Clean Air Act, referred to as the Tailoring Rule under 40 CFR Parts 51 and 70. On July 8, 2019, the EPA published the final Affordable Clean Energy (ACE) rule under 40 CFR Part 111(d). The rule provides guidelines that require states to evaluate a pre-defined list of heat rate improvement projects at coal-fired electric generating units and establish a CO<sub>2</sub> emission rate limit in pounds per megawatt-hour (lbs/MWh). Alliant Energy is working closely with the Wisconsin Department of Natural Resources and Iowa Department of Natural Resources to establish the required state plans for the ACE rule that are due to EPA by July 2022 and compliance with new CO<sub>2</sub> limits by 2024.</p>
Emerging regulation	Relevant, always included	<p>Alliant Energy proactively considers future environmental compliance requirements and proposed regulations under the Clean Air Act (CAA) in our planning, decision-making, construction and ongoing operations activities. Examples include the EPA's Affordable Clean Energy (ACE) rule under CAA Section 111(d) or the proposed New Source Performance Standards under CAA Section 111(b).</p> <p>Various legislative proposals and policy initiatives to address climate change at the national, state and local levels continue to be introduced. Regulation or legislation mandating CO<sub>2</sub> emissions reductions or other clean energy standards could materially increase costs, causing some electric generating units to be uneconomical to operate or maintain.</p> <p>Our company monitors the regulatory environment closely to consider changes and trends as we develop and execute strategic plans.</p>
Technology	Relevant, always included	<p>Cost and advancements in technology are considered as part of our company's broader strategic planning. Our strategy will continue to contemplate broader changes in the energy sector including:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Two-way flow of energy using smaller and decentralized energy resources</li> <li><input type="checkbox"/> Broad adoption of electric end-use technologies, including transportation</li> <li><input type="checkbox"/> Increased use of renewable energy and battery-storage systems</li> <li><input type="checkbox"/> Leveraging data systems to build smart and efficient infrastructure</li> <li><input type="checkbox"/> Evolution of clean energy technologies and offsets to enable carbon emission elimination or mitigation beyond current capabilities</li> </ul> <p>Advances in technology could make some of our facilities uneconomic to maintain or operate and could affect unit retirement and replacement decisions. In addition, we consider current technology</p>

		and expected technology advancements in developing our Clean Energy Vision goals.
Legal	Relevant, sometimes included	Legal challenges have the potential to change regulatory frameworks affecting our ability to operate electric generating units economically. Our company tracks litigation of various environmental and energy rules and regulations that may impact greenhouse gas emissions, renewable energy, or energy use in general (ex. energy efficiency). Legal uncertainties are used to guide our business plans and strategy to make them more robust and flexible to adapt over the long-term as policies change.
Market	Relevant, always included	<p>We are focused on managing energy costs for customers while being environmentally responsible, including preparation for a carbon-constrained future. Our electric utility subsidiaries, Interstate Power and Light (IPL) and Wisconsin Power and Light (WPL), are market participants in the Midcontinent Independent System Operator, Inc. (MISO) Regional Transmission Organization. By participating in MISO's wholesale electricity markets, we provide customers in our service territory with reliable and cost-effective power.</p> <p>Through technical analysis, MISO establishes requirements for the long-term efficiency and reliability of the electrical system. Adequate generation supply, including a reserve margin, is a key component to planning a reliable electric network, and we are obligated to satisfy those supply requirements. Changes in energy and fuel markets could make some of our electric generating units uneconomic to maintain or operate, and could affect unit retirement and replacement decisions</p>
Reputation	Relevant, sometimes included	Impairment of the company's reputation could adversely affect the ability of our company to successfully implement our strategic plans to achieve our Clean Energy Vision goals. Therefore, Alliant Energy considers external stakeholder interests as we develop our strategic plans, including but not limited to customers, investors, regulators and non-governmental organizations.
Acute physical	Relevant, always included	Our financial performance depends on the successful operation of our electric generation and distribution facilities. The operation of these facilities involves many risks, including the breakdown or failure of equipment or processes. Potential breakdown or failure may occur due to severe weather or catastrophic events (i.e., fires, tornadoes, floods, etc.). Unplanned outages at our electric generation facilities may reduce our revenues or cause us to incur significant costs if we are required to operate our higher cost electric generators or purchase replacement power to satisfy our obligations and could result in additional maintenance. Therefore, Alliant Energy's broader strategy and operational plans consider that our physical assets may be

		affected by natural forces and invests in making our assets and operations more resilient to these risks.
Chronic physical	Relevant, always included	<p>Our operations are subject to various conditions that can result in fluctuations in energy sales to customers, including varying weather conditions. Our results of operations and cash flows are affected by the demand for electricity, which can vary greatly based upon weather conditions. Our overall results may fluctuate substantially on a seasonal basis. Milder temperatures during the summer cooling season and during the winter heating season may result in lower revenues and net income.</p> <p>Therefore, Alliant Energy's broader strategy and operational plans consider that our physical assets may be affected by these natural forces. Our electric reliability and planning area evaluates the potential impacts of risks associated with weather events on system availability and reliability. We perform economic analyses of weather and energy use to establish historical relationships that are used for generation, financial and strategic planning. These analyses include long- and short-term forecasts of sales revenues and demand.</p>

## C2.3

**(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business?**

Yes

### C2.3a

**(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.**

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**Identifier**

Risk 1

**Where in the value chain does the risk driver occur?**

Downstream

**Risk type & Primary climate-related risk driver**

Market

Changing customer behavior

**Primary potential financial impact**

Decreased revenues due to reduced demand for products and services

**Company-specific description**

Demand for energy may decrease. Our results of operations are affected by the demand for energy in our service territories. Energy demand may decrease due to many things, including proliferation of customer and third party-owned generation, loss of service territory or franchises, energy efficiency measures, technological advances that increase energy efficiency, third-party disrupters, loss of wholesale customers, the adverse impact of tariffs on our customers, and economic conditions. The loss of sales due to lower demand for energy may increase our rates for remaining customers, as our rates must cover our fixed costs. Increased customer rates may cause decreased demand for energy as customers move to customer and third party-owned generation and implement energy efficiency measures to reduce costs. The loss of customers, the inability to replace those customers with new customers, and the decrease in demand for energy could negatively impact our financial condition and results of operations.

**Time horizon**

Short-term

**Likelihood**

Likely

**Magnitude of impact**

Unknown

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact figure**

Any of the described matters, as well as any regulatory delay in adjusting rates as a result of reduced sales from effective conservation measures or the adoption of new technologies, could adversely impact our results of operations and financial condition. A quantitative estimate of the inherent financial impacts of the risk is not currently available. Zero cost of management assigned because this cost is an inherent aspect of doing business as an energy company.

**Cost of response to risk**

0

**Description of response and explanation of cost calculation**

Alliant Energy's strategic plan includes ongoing initiatives to advance energy solutions that provide our customers with more options based on their specific energy needs and

preferences. Increased electrification that may result from transition to a low-carbon society could affect daily and seasonal demand for electricity. This potentially includes going from a summer-peaking to a winter-peaking system. Electric demand would rise significantly in the coldest months of the year, driven by heat pumps and the fact that electric vehicles would need more charge time to travel an equivalent distance in cold conditions. As part of our planning process, we estimate the impacts of these changes in customer growth and customer energy conservation efforts.

Managing customer energy demand is an inherent aspect of doing business for regulated electric utility companies and our company expects to recover prudently incurred costs.

## Comment

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### Identifier

Risk 2

### Where in the value chain does the risk driver occur?

Direct operations

### Risk type & Primary climate-related risk driver

Chronic physical

Other, please specify

Seasonal temperature fluctuations

### Primary potential financial impact

Decreased revenues due to reduced demand for products and services

### Company-specific description

Our utility business is seasonal and may be adversely affected by the impacts of weather. Electric and gas utility businesses are seasonal businesses. Demand for electricity is greater in the summer months associated with higher air conditioning needs and winter months associated with higher heating needs. Demand for natural gas depends significantly upon temperature patterns in winter months due to heavy use in residential and commercial heating. As a result, our overall operating results in the future may fluctuate substantially on a seasonal basis. In addition, we have historically generated less revenues and income when temperatures are warmer in the winter and/or cooler in the summer. Thus, mild winters and/or summers could have an adverse impact on our financial condition and results of operations.

### Time horizon

Short-term

### Likelihood

About as likely as not

**Magnitude of impact**

Unknown

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact figure**

Our overall results may fluctuate substantially on a seasonal basis. Milder temperatures during the summer cooling season and during the winter heating season may result in lower revenues and net income. A quantitative estimate of the inherent financial impacts of the risk is not currently available. Zero cost of management assigned because this cost is an inherent aspect of doing business as an energy company.

**Cost of response to risk**

0

**Description of response and explanation of cost calculation**

Alliant Energy's broader strategy and operational plans consider that our physical assets may be affected by these natural forces. Our electric reliability and planning area evaluates the potential impacts of risks associated with weather events on system availability and reliability. We perform economic analyses of weather and energy use to establish historical relationships that are used for generation, financial and strategic planning. These analyses include long- and short-term forecasts of sales revenues and demand. Alliant Energy's operational plans include flexibility to address the impacts of weather.

Managing customer energy demand is an inherent aspect of doing business for regulated electric utility companies and our company expects to recover prudently incurred costs.

**Comment**

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**Identifier**

Risk 3

**Where in the value chain does the risk driver occur?**

Direct operations

**Risk type & Primary climate-related risk driver**

Emerging regulation

Mandates on and regulation of existing products and services

**Primary potential financial impact**

Other, please specify

Decreased revenues, reduced asset value, increased capital expenditures or O&M costs

**Company-specific description**

Actions related to global climate change and reducing greenhouse gases (GHG) emissions could negatively impact us. Regulators, customers and investors continue to raise concerns about climate change and GHG emissions. National regulatory action is in flux and international regulatory actions continue to evolve. We are focused on executing a long-term strategy to deliver reliable and affordable energy with lower carbon dioxide (CO<sub>2</sub>) emissions independent of changing policies and political landscape. However, it is unclear how these climate change concerns will ultimately impact us. We could incur costs or other obligations to comply with future GHG regulations and could become the target of legal claims or challenges, because generating electricity using fossil fuels emits CO<sub>2</sub> and other GHG. Further, investors may determine that we are too reliant on fossil fuels, reducing demand for our stock, which may cause our stock price to decrease, or not buy our debt securities, which may cause our cost of debt to increase. We could face additional pressures from customers, investors or other stakeholders to more rapidly reduce CO<sub>2</sub> emissions on a voluntary basis, including faster adoption of lower CO<sub>2</sub> emitting technologies and management of excess renewable energy credits. The timing and pace to fully achieve decarbonization is also contingent on the future development of technologies to reliably store and manage electricity, as well as electrification of other economic sectors. The EPA's approach and timing for implementing rules to regulate CO<sub>2</sub> emissions at fossil-fuel fired electric generating units remains undecided and subject to litigation. Various legislative proposals to address climate change at the national, state and local levels continue to be introduced. Regulation or legislation mandating CO<sub>2</sub> emissions reductions or other clean energy standards could materially increase costs, causing some electric generating units to be uneconomical to operate or maintain. We cannot provide any assurance regarding the potential impacts of climate change policy or GHG regulations on our operations and these could have a material adverse impact on our financial condition and results of operations.

**Time horizon**

Medium-term

**Likelihood**

More likely than not

**Magnitude of impact**

Unknown

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact figure**

Future regulation of GHG emissions and any other related regulations that may be adopted in the future, at either the federal or state level, may cause our environmental compliance spending to differ materially from the amounts currently estimated. Current GHG emissions regulation, as well as future legislation or regulation that may be adopted, carries with it a wide range of possible effects on our energy business; therefore, we strive for the flexibility to react to a variety of potential outcomes while ensuring an affordable, safe and reliable electricity supply for our customers. A quantitative estimate of the inherent financial impacts of the risk is not currently available. Governance and project approval measures are in place to ensure that costs to comply with federal environmental regulations are prudently incurred. Zero cost of management assigned because this cost is an inherent aspect of doing business as an energy company.

**Cost of response to risk**

0

**Description of response and explanation of cost calculation**

Alliant Energy's strategic plan is intended to meet customer energy demand, reduce CO2 emissions, reduce reliance on wholesale market purchases and mitigate the impacts of future EGU retirements while maintaining compliance with long-term electric demand planning reserve margins, environmental requirements and Renewable Energy Standards established by regulators - all while maintaining affordable electric rates.

Implementing our strategic plan is an inherent aspect of doing business as a regulated electric utility company and our company expects to recover prudently incurred costs.

**Comment**

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**Identifier**

Risk 4

**Where in the value chain does the risk driver occur?**

Direct operations

**Risk type & Primary climate-related risk driver**

Acute physical

Increased severity and frequency of extreme weather events such as cyclones and floods

**Primary potential financial impact**

Other, please specify

Increased repair costs and reduced sales due to outages resulting in customer service interruption

**Company-specific description**

Storms or other natural disasters may impact our operations in unpredictable ways. Storms and other natural disasters, including events such as floods, tornadoes, blizzards, ice storms, extreme hot temperatures, extreme cold temperatures, fires, solar flares or pandemics may adversely impact our ability to generate, purchase or distribute electric energy and gas or obtain fuel or other critical supplies. In addition, we could incur large costs to repair damage to our generating facilities and electric and gas infrastructure, or costs related to environmental remediation, due to storms or other natural disasters. The restoration costs may not be fully covered by insurance policies and may not be fully recovered in rates, or recovery in rates may be delayed. Storms and natural disasters may impact our customers and the resulting reduced demand for energy could cause lower sales and revenues, which may not be replaced or recovered in rates, or rate recovery may be delayed. Any of these items could adversely impact our financial condition and results of operations.

**Time horizon**

Unknown

**Likelihood**

About as likely as not

**Magnitude of impact**

Medium-high

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact figure**

Any of the described events could lead to substantial financial losses. Unplanned outages at our power plants may reduce our revenues or cause us to incur significant costs if we are required to operate our higher-cost electric generators or purchase replacement power to satisfy our obligations and could result in additional maintenance expenses. Significant repair and replacement of supporting infrastructure on the electricity distribution system may be needed. A quantitative estimate of the inherent financial impacts of the risk is not currently available. Due to unpredictability and uncertainties these costs need to be assessed on a case-specific basis depending on the outcome of the natural disaster. Our company works closely with our state and federal regulatory agencies on natural disaster preparation and response plans to address impacts. Alliant Energy carries property insurance with limits, coverage terms and retentions that are in line with industry standards for utilities of similar size and geographic location.

**Cost of response to risk**

0

**Description of response and explanation of cost calculation**

We assess and adjust for weather-related risks in our daily operations in order to improve reliability and resilience, safety and customer satisfaction. Alliant Energy's operational plans include flexibility to address the impacts of weather, we have a dedicated Emergency Operations Center and the company's Business Continuity Plan addresses risks of events such as those caused by severe weather. Our strategic plans include investments to modernize our electric infrastructure to make it more resilient. Providing safe and reliable power to our customers and responding quickly to restore service during storms or other natural disaster events is an inherent aspect of doing business for regulated electric utility companies and our company expects to recover prudently incurred costs.

**Comment**

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**Identifier**

Risk 5

**Where in the value chain does the risk driver occur?**

Direct operations

**Risk type & Primary climate-related risk driver**

Current regulation

Mandates on and regulation of existing products and services

**Primary potential financial impact**

Other, please specify

Decreased revenues, reduced asset value, increased capital expenditures or O&M costs

### **Company-specific description**

Our utility business is significantly impacted by government legislation, regulation and oversight. Our utility financial condition is influenced by how regulatory authorities, including the Iowa Utilities Board (IUB), the Public Service Commission of Wisconsin (PSCW) and Federal Energy Regulatory Commission (FERC), establish the rates we can charge our customers, our authorized rates of return and common equity levels, and the costs that may be recovered from customers. In addition, our operations are subject to extensive regulation primarily by the IUB, the PSCW and FERC.

We are also subject to oversight and monitoring by organizations such as the North American Electric Reliability Corporation, the Pipeline and Hazardous Materials Safety Administration, and the Midcontinent Independent System Operator, Inc. (MISO). These regulatory authorities and organizations are also empowered to impose financial penalties and other sanctions, including requirements to implement new compliance programs. Failure to obtain approvals for any of these matters in a timely manner, or receipt of approvals with uneconomical conditions, may cause us not to pursue the construction of such projects or to record an impairment of our assets and may have a material adverse impact on our financial condition and results of operations.

### **Time horizon**

Short-term

### **Likelihood**

Virtually certain

### **Magnitude of impact**

Low

### **Are you able to provide a potential financial impact figure?**

No, we do not have this figure

### **Potential financial impact figure (currency)**

### **Potential financial impact figure – minimum (currency)**

### **Potential financial impact figure – maximum (currency)**

### **Explanation of financial impact figure**

Our ability to timely obtain rate adjustments to earn authorized rates of return depends upon timely regulatory action under applicable statutes and regulations and cannot be guaranteed. In future rate reviews, IPL and WPL may not receive an adequate amount of rate relief to recover all costs and earn their authorized rates of return, rates may be reduced, rate refunds may be required, rate adjustments may not be approved on a timely basis, costs may not be otherwise recovered through rates, future rates may be temporarily frozen, certain rate base items may not receive a full weighted average cost of capital, and authorized rates of return on capital may be reduced. As a result, we

may experience adverse impacts on our financial condition and results of operations.

The impacts of regulations on our operations include: our ability to site and construct new generating facilities, such as renewable energy projects, and recover associated costs, including our ability to continue to use a renewable energy rider in Iowa; our ability to decommission generating facilities and recover related costs and the remaining carrying value of these facilities; the rates paid to transmission operators and how those costs are recovered from customers, including our ability to use a transmission rider in Iowa; our ability to site, construct and recover costs for new natural gas pipelines; our ability to recover costs to upgrade our electric and gas distribution systems; the amount of certain sources of energy we must use, such as renewable sources; our ability to purchase generating facilities and recover the costs associated therewith; our ability to sell utility assets and any conditions placed upon the sale of such assets; our ability to enter into purchased power agreements and recover the costs associated therewith; resource adequacy requirements, energy capacity standards, and when new facilities such as WPL's West Riverside Energy Center, and IPL's and WPL's planned additional wind and solar generation may be fully accredited with energy capacity; the allocation of expenditures by transmission companies on transmission network upgrades and our ability to recover costs associated therewith; reliability; safety; the issuance of securities; accounting matters; and transactions between affiliates.

**Cost of response to risk**

0

**Description of response and explanation of cost calculation**

Alliant Energy works diligently to communicate frequently with and maintain good relationships with our regulators. Our company also proactively plans for compliance with emerging or changing regulations as part of our broader strategic planning processes. Implementing our strategic plan is an inherent aspect of doing business as a regulated electric utility company and our company expects to recover prudently incurred costs.

**Comment**

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**Identifier**

Risk 6

**Where in the value chain does the risk driver occur?**

Direct operations

**Risk type & Primary climate-related risk driver**

Market

Uncertainty in market signals

**Primary potential financial impact**

Other, please specify

Increased federal taxes

**Company-specific description**

Changes to certain tax elections, tax regulations and future taxable income could negatively impact our financial condition and results of operations. Our utility business currently operates wind generating facilities, which generate production tax credits for us to use to reduce our federal tax obligations. The amount of production tax credits we earn is dependent on the date the qualifying generating facilities are placed in-service, the level of electricity output generated by our qualifying generating facilities and the applicable tax credit rate. If there is a disagreement on the in-service date, the amount of production tax credits that we can generate may be significantly reduced. A variety of operating and economic parameters, including transmission constraints, the imbalance of supply and demand of wind energy resulting in unfavorable pricing for wind energy, adverse weather conditions and breakdown or failure of equipment, could significantly reduce the production tax credits generated by our wind farms resulting in a material adverse impact on our financial condition and results of operations. Our strategic plan includes developing solar generating facilities, which are expected to generate investment tax credits. Investment tax credits are dependent on the date the qualifying generating facilities begin construction and the costs of the qualifying generating facilities. If there is a disagreement on the dates construction began and ended or the qualifying costs, the amount of investment tax credits that we earn may be significantly reduced, possibly adversely impacting our financial condition and results of operations.

**Time horizon**

Short-term

**Likelihood**

Unlikely

**Magnitude of impact**

Medium-low

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact figure**

Alliant Energy cannot determine the potential financial impact of changes to wind production tax credit or solar investment tax credit policies, since there are many

uncertainties including what these revisions might be, and the generation amounts of our renewable resources in the MISO energy markets.

**Cost of response to risk**

0

**Description of response and explanation of cost calculation**

Our company's public affairs department monitors tax-related issues closely for potential legislation or regulation that could impact our operation of renewable generation or qualification for production tax credits for our owned wind or investment tax credits for solar facilities. Implementing our strategic plan is an inherent aspect of doing business as a regulated electric utility company and our company expects to recover prudently incurred costs.

**Comment**

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**Identifier**

Risk 7

**Where in the value chain does the risk driver occur?**

Direct operations

**Risk type & Primary climate-related risk driver**

Technology  
Transitioning to lower emissions technology

**Primary potential financial impact**

Decreased revenues due to reduced production capacity

**Company-specific description**

Our strategy includes large construction projects, which are subject to risks. Our strategy includes constructing renewable generating facilities, large-scale additions and upgrades to our electric and gas distribution systems, constructing a natural gas-fired generating facility, and making other large-scale improvements to generating facilities. These construction projects are subject to various risks. These risks include: the inability to obtain necessary permits in a timely manner; adverse interpretation or enforcement of permit conditions; changes in applicable laws or regulations; changes in costs of materials, equipment, commodities, fuel or labor; delays caused by construction accidents or injuries; shortages in materials, equipment and qualified labor; changes to the scope or timing of the projects; general contractors or subcontractors not performing as required under their contracts; the inability to agree to contract terms or disputes in contract terms; poor initial cost estimates; work stoppages; adverse weather conditions; government actions; legal action; unforeseen engineering or technology issues; limited access to capital; and other adverse economic conditions.

**Time horizon**

Short-term

**Likelihood**

Unlikely

**Magnitude of impact**

Unknown

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact figure**

We may not be able to recover all costs for the projects in rates and face increased risk of potential impairment of our project investment if a construction project is not completed or is delayed, or final costs exceed expectations or the costs approved by our regulators, for example, if IPL's expansion of wind generation exceeds the respective cost cap approved by the IUB. Inability to recover costs, or inability to complete the project in a timely manner, could adversely impact our financial condition and results of operations.

**Cost of response to risk**

0

**Description of response and explanation of cost calculation**

Implementing our strategic plan is an inherent aspect of doing business as a regulated electric utility company and our company expects to recover prudently incurred costs.

**Comment**

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**Identifier**

Risk 8

**Where in the value chain does the risk driver occur?**

Direct operations

**Risk type & Primary climate-related risk driver**

Technology

Substitution of existing products and services with lower emissions options

### **Primary potential financial impact**

Decreased revenues due to reduced demand for products and services

### **Company-specific description**

Energy industry changes could have a negative effect on our businesses. We operate in a highly regulated business environment. The advent of new and unregulated markets has the potential to significantly impact our financial condition and results of operations. Further, competitors may not be subject to the same operating, regulatory and financial requirements that we are, potentially causing a substantial competitive disadvantage for us. Changes in public policy, such as new tax incentives that we cannot take advantage of, could provide an advantage to competitors. Changes in technology could also alter the channels through which electric customers buy or utilize power, which could reduce the revenues or increase the expenses of our utility companies. Increased competition in our primary retail electric service territories may have an adverse impact on our financial condition and results of operations.

### **Time horizon**

Medium-term

### **Likelihood**

About as likely as not

### **Magnitude of impact**

Unknown

### **Are you able to provide a potential financial impact figure?**

No, we do not have this figure

### **Potential financial impact figure (currency)**

### **Potential financial impact figure – minimum (currency)**

### **Potential financial impact figure – maximum (currency)**

### **Explanation of financial impact figure**

The potential financial effects of deregulation of energy markets or third-party competitors on our customer load cannot be predicted. Alliant Energy's business plans do evaluate customer loads and changes to understand fluctuations and drivers for variations. These factors are considered in our longer-term strategic planning and integrated resource plans to balance energy supply with customer demand.

### **Cost of response to risk**

0

### **Description of response and explanation of cost calculation**

Implementing our strategic plan is an inherent aspect of doing business as a regulated electric utility company and our company expects to recover prudently incurred costs.

## Comment

### C2.4

**(C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business?**

Yes

### C2.4a

**(C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.**

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#### Identifier

Opp1

#### Where in the value chain does the opportunity occur?

Downstream

#### Opportunity type

Products and services

#### Primary climate-related opportunity driver

Development and/or expansion of low emission goods and services

#### Primary potential financial impact

Increased revenues resulting from increased demand for products and services

#### Company-specific description

Electrification: Alliant Energy's strategy supports expanding electric usage in its service territories by promoting electrification initiatives in the communities it serves. According to the Electric Power Research Institute, between year-end 2017 and year-end 2019, our retail electric service area saw an 81% increase in plug-in electric vehicles. Transportation is now the highest carbon dioxide (CO<sub>2</sub>) emitting sector in the economy. Electricity as a fuel is cleaner and less expensive than gasoline or diesel.

An EV is more efficient and already offers a 50% reduction in CO<sub>2</sub> emissions by using power from clean energy resources expanding on the Midwest energy grid. Providing emissions-free work site conditions significantly benefits employees by improving local air quality and reducing noise levels. Our company is taking advantage by electrifying our own operations.

We are also working to increase business adoption of electric forklifts, electric truck refrigeration units, and replacing commercial transportation and delivery fleets with EVs. Our company also supports residential adoption by sponsoring various rebates and

educational events. Through electrification, we believe that electricity can enable broader economy-wide carbon reductions.

Alliant Energy's 2019 customer electrification results included:

- 143 residential customer rebates toward Level 2 EV charging stations
- 7 non-residential customer rebates resulting in 12 additional Level 2 EV charging ports
- Rebates supporting electrification for 84 forklifts and 2 transport refrigeration units
- Estimated annual load growth of 1.7 million kilowatt-hours from non-road electrification

**Time horizon**

Medium-term

**Likelihood**

Very likely

**Magnitude of impact**

Medium

**Are you able to provide a potential financial impact figure?**

Yes, an estimated range

**Potential financial impact figure (currency)**

**Potential financial impact figure – minimum (currency)**

14,000,000

**Potential financial impact figure – maximum (currency)**

18,000,000

**Explanation of financial impact figure**

With a 1% increase in sales due to electrification, we would estimate electric margins could increase between \$14 million and \$18 million on an annual basis.

**Cost to realize opportunity**

**Strategy to realize opportunity and explanation of cost calculation**

The breadth of potential customer-related initiatives makes a single cost estimate unreliable. Alliant Energy invests in research with the Electric Power Research Institute on electrification-related to both transportation and customer productivity. Our company also has dedicated employees that are supporting our electrification efforts and we have also supported various customer rebates. We participate in various stakeholder groups that are working to develop strategies to enable efficiency and effective expansion of electrification initiatives in the Midwest.

We monitor developments in the following areas to determine if action should be taken:

- Financial incentives for alternative energy technologies
- Electric vehicle models offered by car manufacturers
- Sales of electric vehicles and percent of new car sales
- Availability and types of public charging stations
- Customer opinions about electric vehicle options
- Commercial and industrial electrification technology developments

We are also supporting communities that are interested in offering public charging options to their residents. For example, we recently assisted with a new Level 3 fast car charger in Beaver Dam, Wisconsin. Conveniently located at the Highway 33/Highway 151 interchange, this charging station serves one of the busiest intersections in the state.

## Comment

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### Identifier

Opp2

### Where in the value chain does the opportunity occur?

Direct operations

### Opportunity type

Resilience

### Primary climate-related opportunity driver

Other, please specify  
Integrated grid initiatives

### Primary potential financial impact

Other, please specify  
We earn an authorized rate of return on our capital expenditures on assets for our integrated grid initiatives. These initiatives will also reduce our operating costs and provide customers with improved access to clean energy options.

### Company-specific description

Integrated Grid: Alliant Energy's integrated grid strategic initiatives will transform our distribution system into a continuous two-way flow of electricity and digital information. The projects leverage new technologies and tools in order to satisfy emerging customer requirements. These include:

- Smart meters installed providing customers with advanced metering infrastructure (AMI)
- Upgrading to higher 25-KV voltage

- Undergrounding electric distribution lines (new and replacement)
- Fiber-optic cable installation to enhance our telecommunications network
- Updating our control center by implementing an Advanced Distribution Management System
- Conducting pilot projects to test new digital technologies and energy storage

**Time horizon**

Short-term

**Likelihood**

Virtually certain

**Magnitude of impact**

Medium-high

**Are you able to provide a potential financial impact figure?**

Yes, a single figure estimate

**Potential financial impact figure (currency)**

110,000,000

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact figure**

Alliant Energy has over \$2.2 billion in planned investments to build smarter and more resilient energy infrastructure. Assuming a 50/50 debt equity ratio and a return on equity of 10% Alliant Energy will earn an annual return on \$110,000,000 off of its \$2.2 billion investment in distribution systems from 2020-2023. This is an approximate return for the first year after the full value of investments are included in rate base.

**Cost to realize opportunity**

2,200,000,000

**Strategy to realize opportunity and explanation of cost calculation**

Alliant Energy's efforts to modernize electric infrastructure is part of our company's ongoing strategic plan implementation. Providing safe and reliable power is an inherent aspect of doing business for regulated electric utility companies and our company expects to recover prudently incurred costs.

**Comment**

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**Identifier**

Opp3

**Where in the value chain does the opportunity occur?**

Direct operations

**Opportunity type**

Energy source

**Primary climate-related opportunity driver**

Use of lower-emission sources of energy

**Primary potential financial impact**

Returns on investment in low-emission technology

**Company-specific description**

Wind Expansion: Alliant Energy is expanding our utility-owned wind farms in 2019 and 2020 with an additional 1,150 megawatts - making Alliant Energy the 3rd largest utility owner-operator of regulated wind in the U.S. Expanding the presence of zero-carbon resources in our fleet creates new investment opportunities and reduces our exposure to potential future climate regulations. As a regulated utility company, our financial earnings are driven by the allowed specified rate of return on rate base. Our reliance on fossil-fueled generation to produce electricity for our customers, in particular coal, continues to decline as a percentage of our total rate base while we install more clean energy like wind.

**Time horizon**

Short-term

**Likelihood**

Virtually certain

**Magnitude of impact**

High

**Are you able to provide a potential financial impact figure?**

Yes, a single figure estimate

**Potential financial impact figure (currency)**

100,000,000

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact figure**

This is the estimated return on investment for renewable energy capital expenditures of \$2 billion by our regulated electric utilities being placed in-service by Alliant Energy between 2016 and 2020. Assumes a 50/50 debt equity ratio and a return on equity of 10%. This figure represents an annual impact for the first year and the full value of the investments are included in our regulated utilities rate base. There are customer savings

that offset the impact of this investment on customer bills, including production tax credits and lower fuel expenses.

**Cost to realize opportunity**

2,000,000,000

**Strategy to realize opportunity and explanation of cost calculation**

By the end of 2020, we will have invested \$2 billion in new wind farms for our regulated electric utilities providing power to our Iowa and Wisconsin customers. More specifically, our company's Resource Development and Generation Strategic Implementation and Strategic Project teams are successfully executing completion of our newest wind farms. This includes two new wind farms that went into service in 2019 and another four by the end of 2020.

When fully completed Alliant Energy's owned wind generation by end of 2020 will include:

- 12 wind farms
- 1,890 megawatts
- approximately 593,000 homes powered

As Alliant Energy continues to add more renewable energy resources as part of our future Clean Energy Vision and ongoing strategic plan implementation, our company obtains all required regulatory approvals for these customer-focused investments and expects to recover prudently incurred costs.

**Comment**

This expansion of wind energy also delivers strong economic benefits to local communities. Participating counties, communities and schools will receive an estimate of up to \$730 million in property taxes over 40 years. Landowners will receive approximately \$342 million in lease payments over the same time.

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**Identifier**

Opp4

**Where in the value chain does the opportunity occur?**

Downstream

**Opportunity type**

Products and services

**Primary climate-related opportunity driver**

Development of new products or services through R&D and innovation

**Primary potential financial impact**

Returns on investment in low-emission technology

**Company-specific description**

**Technology Development:** In 2017, Alliant Energy joined Energy Impact Partners (EIP). EIP brings together leading innovators with energy companies to create a cleaner, more secure and resilient future. This unique partnership is funded through our non-utility affiliate, Alliant Energy Finance, LLC. Leveraging the resources from EIP supports our company's strategy to provide sustainable solutions for our customers, such as providing digital tools to help them better understand and manage their real-time energy use and maximize the benefits of smart home technologies. It also supports our deployment of data analytics to manage energy flow as the grid evolves with increasing adoption of distributed renewable generation and electrification. EIP screens all investments qualitatively to ensure that they do not increase net emissions or impede the clean energy transition. Both direct and indirect climate-related benefits are realized by EIP projects either through reduced emissions or by providing foundational technology to support the transition to cleaner energy resources.

**Time horizon**

Medium-term

**Likelihood**

Virtually certain

**Magnitude of impact**

Medium

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact figure**

The financial impacts and future benefits for our company are dependent on the results of EIP's investments in high-growth companies and ultimately their success. EIP screens hundreds of companies and then works with its partners to make strategic investments in what is assessed as potentially the most promising opportunities. By partnering with other investors our company can leverage our investments and maximize the potential opportunities that could develop from EIP's portfolio.

**Cost to realize opportunity**

**Strategy to realize opportunity and explanation of cost calculation**

EIP is a platform created by utilities and for utilities, working with a proven collaborative investment model to bring innovators, capital and incumbents together to make a

difference. It offers more efficient and robust analysis for markets being pursued, by investigating and investing in multiple businesses on a smaller scale. This reduces risk versus larger capital investments in a smaller set of opportunities. Together, we work with EIP members to identify emerging trends, new technologies and innovative business models to build a better energy future. This unique partnership is funded through our non-utility affiliate, Alliant Energy Finance, LLC.

Our company's key investment categories include smart energy tools, asset optimization, distributed energy resources, software for the modern grid, and electrification. Alliant Energy has dedicated employees to manage our EIP investment and technical experts assigned to provide input and guidance on these investments. Alliant Energy supports implementation of our EIP partnership including one full-time employee, approximately ten or more technical experts, plus executives that provide guidance through an established EIP council.

Our company is also leveraging the investment through direct participation in pilot studies. For example, Alliant Energy is one of the first utilities in the U.S. to test the Sense® energy monitoring technology in homes. The Sense monitor's technology identifies individual devices so customers can track what's on and off and how much energy each one uses. This information is delivered to a mobile app, which translates usage into cost. Results show that residential electric customers could reduce their overall use by up to 9% by taking a thorough inventory of everything that's plugged in and selectively shutting down unused, always-on devices. This could save customers up to \$90 per household per year, or nearly one month's typical electricity bill. Our company has enrolled 200 customers since 2018 and plans to install another 100 monitors by the end of 2020. We'll learn from customer feedback and continue to assess the pilot results working with our regulators and the state-wide utility-mandated energy-efficiency program (Focus on Energy). By helping our customers to save on their energy costs, our company builds stronger relationships while lowering operational costs, electricity demand and associated emissions.

### **Comment**

Many of the products sold by EIP's portfolio companies save energy, or replace fossil-fueled electricity with clean energy, in a direct and measurable way. There are 12 companies in EIP portfolio that have quantifiable environmental benefits including lifetime savings totaling about 15 million metric tons of CO<sub>2</sub>e. Additional information on progress to reduce carbon emissions and climate impacts through this partnership is available in EIP's Environmental Metrics Report:

<http://www.energyimpactpartners.com/wp-content/uploads/2020/04/EIP-Environmental-Metrics-Report-April-Edition-1.pdf>

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### **Identifier**

Opp5

**Where in the value chain does the opportunity occur?**

Direct operations

**Opportunity type**

Energy source

**Primary climate-related opportunity driver**

Use of lower-emission sources of energy

**Primary potential financial impact**

Returns on investment in low-emission technology

**Company-specific description**

Solar Expansion: Alliant Energy has planned investments of \$780 million to build solar projects totaling 1,000 megawatts by 2023 as part of the company's Clean Energy Blueprint. The Clean Energy Blueprint is our strategic roadmap to accelerate our transition to renewable energy while reducing carbon dioxide (CO<sub>2</sub>) emissions.

**Time horizon**

Short-term

**Likelihood**

Virtually certain

**Magnitude of impact**

Medium

**Are you able to provide a potential financial impact figure?**

Yes, a single figure estimate

**Potential financial impact figure (currency)**

39,000,000

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact figure**

This is the estimated return on investment for renewable energy capital expenditures of \$780 million by our regulated electric utilities being placed in-service by Alliant Energy between 2021 and 2023. Assumes a 50/50 debt equity ratio and a return on equity of 10%. This figure represents an annual impact for the first year and the full value of the investments are included in our regulated utilities rate base. There are customer savings that offset the impact of this investment on customer bills, including production tax credits and lower fuel expenses.

As a regulated utility company, our financial earnings are driven by the allowed specified rate of return on rate base. Our reliance on fossil-fueled generation to produce electricity

for our customers, in particular coal, continues to decline as a percentage of our total rate base while we install more clean energy like solar.

### **Cost to realize opportunity**

780,000,000

### **Strategy to realize opportunity and explanation of cost calculation**

In 2019, Alliant Energy announced its plan to install 1,000 MW of solar generation in Wisconsin by 2023 – enough to power 260,000 homes a year as part of the company's Clean Energy Blueprint. In May 2020, our regulated Wisconsin electric utility announced the first plans to execute this plan by acquiring, constructing, owning, and operating six utility-scale solar projects totaling 675 megawatts (MW) in six Wisconsin counties. Once operational, the energy from the projects will be enough to power 175,000 homes per year – making Alliant Energy the largest owner-operator of solar in Wisconsin. Collectively, these projects are expected to create more than 1,200 local construction jobs, and, once operational, will provide an estimated \$80 million in local tax revenues over the next 30 years. Along with the rest of the Clean Energy Blueprint, these projects will help customers avoid more than \$2 billion in long-term costs. This initial phase includes:

200 MW in Grant County from NextEra Energy Resources

150 MW in Sheboygan County from Ranger Power

150 MW in Wood County from Savion

75 MW in Jefferson County from Ranger Power

50 MW in Rock County from Geronimo Energy

50 MW in Richland County from Savion

In May 2020, Alliant Energy also filed a Certificate of Authority (CA) application with the Public Service Commission of Wisconsin (PSCW) to advance these six projects; docket number 6680-CE-182. The company expects a PSCW decision in the first half of 2021. The estimated total cost is \$862 million with expected project completion and commercial operation of all six solar sites by the end of 2023. A second CA for the remaining 325 MW of solar is expected to be filed in the first half of 2021.

As Alliant Energy continues to add more renewable energy resources as part of our future Clean Energy Vision and ongoing strategic plan implementation, our company obtains all required regulatory approvals for these customer-focused investments and expects to recover prudently incurred costs.

### **Comment**

The cost to realize opportunity is the estimated full cost of solar, less estimated tax equity financing received.

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### **Identifier**

Opp6

**Where in the value chain does the opportunity occur?**

Direct operations

**Opportunity type**

Energy source

**Primary climate-related opportunity driver**

Use of lower-emission sources of energy

**Primary potential financial impact**

Increased revenues resulting from increased demand for products and services

**Company-specific description**

New Customer Renewable Options: Alliant Energy is expanding renewable options for our Wisconsin and Iowa customers with three new voluntary programs.

**Time horizon**

Short-term

**Likelihood**

Virtually certain

**Magnitude of impact**

Medium-low

**Are you able to provide a potential financial impact figure?**

No, we do not have this figure

**Potential financial impact figure (currency)**

**Potential financial impact figure – minimum (currency)**

**Potential financial impact figure – maximum (currency)**

**Explanation of financial impact figure**

These are brand new programs and the extent that our customers will request them remains to be determined. Further adding to this uncertainty is the COVID-19 pandemic which is affecting customer energy usage.

**Cost to realize opportunity**

**Strategy to realize opportunity and explanation of cost calculation**

Alliant Energy has successfully worked to obtain approval to implement three new renewable options for our customers. These include the following:

- A community solar program that allows customers to subscribe to energy from a centralized solar garden in a nearby community, establishing a long-term customer

connection. This provides another option for customers to participate in solar energy as a renewable alternative who may not choose or be able to host solar power on their home or business.

- A customer-hosted renewables program that allows Alliant Energy to partner with commercial and industrial customers who desire on-site renewable energy resources, in exchange for a lease payment to the customer.
- Individualized renewable energy contracts tailored to the needs of commercial and industrial customers and that are tied to dedicated renewable resources. Customers with multiple accounts would be able to aggregate their service under a single renewable energy contract. Customers can meet their sustainability goals in receiving renewable energy credits associated with the renewable resource.

### Comment

These new renewable options for our customers are in addition to Alliant Energy's existing Second Nature program. The Second Nature program allows our residential and non-residential customers to support electricity generated from wind and solar resources located in Iowa and Wisconsin. There is no special equipment to buy and no lifestyle changes needed. Residential customers can choose from three participation levels: 25%, 50% or 100% of their annual usage. All other customers can elect a flat monthly amount. At the end of 2019, more than 8,000 customers were participating in Wisconsin and 5,600 customers in Iowa. A third party verifies annually that all electricity purchased on behalf of Second Nature participants comes from qualified renewable resources.

## C3. Business Strategy

### C3.1

**(C3.1) Have climate-related risks and opportunities influenced your organization's strategy and/or financial planning?**

Yes, and we have developed a low-carbon transition plan

#### C3.1a

**(C3.1a) Does your organization use climate-related scenario analysis to inform its strategy?**

Yes, qualitative and quantitative

#### C3.1b

**(C3.1b) Provide details of your organization's use of climate-related scenario analysis.**

Climate-related scenarios and models applied	Details
<p>Other, please specify Strategic business plans and integrated resource plan development</p>	<p>Alliant Energy factors climate-related scenarios as part of the company's broader strategic business plans and integrated resource plan development.</p> <p>Our electric utility subsidiaries, IPL and WPL, are market participants in the Midcontinent Independent System Operator, Inc. (MISO) Regional Transmission Organization. By participating in MISO's wholesale electricity markets, we provide customers in our service area with reliable and affordable power. Through technical analysis, MISO establishes requirements for the long-term efficiency and reliability of the electrical system. Adequate generation supply, including a reserve margin, is a key component to planning a reliable electric network, and we are obligated to satisfy those supply requirements.</p> <p>Overall, the process begins with an electric sales forecast (residential, commercial, industrial and wholesale). This is normalized for temperature and considers energy efficiency, distributed generation, and other factors such as future electrification of transportation and other activities. Computer models are applied to assess the performance of various energy resource alternatives over a planning horizon that often covers 15 to 40 years. This includes evaluation of how energy and capacity needs balance with supply, for example by using a year-by-year load forecast of both the energy required at the time of maximum consumption and the total amount of energy consumed over time. Energy supply alternatives are then modeled using expected performance characteristics, operating and capital costs.</p> <p>Integrated resource planning supports refinement of our company's strategy by examining a wide range of future planning scenarios including policy mandates and regulations or other initiatives to reduce greenhouse gas emissions. More specifically, this includes consideration of our voluntary carbon dioxide (CO<sub>2</sub>) reduction targets as well as potential future carbon policies and pricing. Resource plan sensitivity analyses then further considers additional variables including but not limited to: existing and new generating facilities; environmental costs and limits; fuel prices; capacity prices; market energy, and generating facility retirements.</p> <p>We use energy-market modeling to consider forecasts over both the short and long term, while regional energy resource characteristics and transmission-constraints are factored into simulations that assess economic dispatch of electric generation into those energy markets. This supports portfolio optimization and risk analyses across planning</p>

	<p>scenarios.</p> <p>Alliant Energy uses an integrated resource planning process to:</p> <ol style="list-style-type: none"> <li>1) Assess future energy and capacity needs under a variety of possible future scenarios with varying economic and regulatory policy outlooks.</li> <li>2) Evaluate potential performance of various energy supply resources and mixes under a range of future scenarios.</li> <li>3) Inform development of an action plan projected to satisfy energy and capacity needs safely, efficiently and responsibly.</li> </ol> <p>Ultimately, results are further assessed considering our strategy and non-quantifiable risks that cannot be considered in the model. This guides our decisions on the best future energy resources to meet our customers' electricity needs. Long-term generation plans are intended to meet customer demand, reduce CO2 emissions, reduce reliance on wholesale market purchases and mitigate the impacts of future EGU retirements while maintaining compliance with long-term electric demand planning reserve margins, environmental requirements and renewable energy standards established by regulators.</p> <p>Strategic plans are reviewed and approved by the company's Board of Directors annually. Integrated resource plans and related projects are approved on a case-by-case basis by our regulators including the Iowa Utilities Board and the Public Service Commission of Wisconsin. These plans must also satisfy reliability and reserve requirements of the MISO energy markets.</p>
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### C3.1d

**(C3.1d) Describe where and how climate-related risks and opportunities have influenced your strategy.**

	Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	The number of Alliant Energy customers seeking energy from alternative energy sources is increasing. As a result, our strategy expands company-owned wind (1,150 MW by the end of 2020) and solar (1,000 MW by the end of 2023). This represents over \$3 billion dollars in investment on which Alliant Energy is eligible to earn a return on equity.
Supply chain and/or value chain	Yes	Our strategic planning processes evaluate potential impacts of renewable energy penetration, changes in the fuel markets and advances in technology. In addition, these

		support decisions regarding unit retirement and replacement. This guides our supply chain decisions to procure necessary materials as we implement plans to diversify our energy mix by adding more renewable generation to meet our Clean Energy Vision goals to reduce carbon dioxide (CO2) emissions and eliminate coal-fired generation.
Investment in R&D	Yes	Alliant Energy is a member of EPRI, which conducts research and development on a variety of electric sector topics including climate change response, renewable energy, electrification and energy storage. In addition, we partner with local universities on climate-related research. Combined we have spent millions of dollars each year to support these research programs to ensure we can adequately mitigate climate change risks and position for climate change opportunities as part of our company's strategy.
Operations	Yes	We are continuing to implement our integrated grid strategic initiatives to transform our distribution system into a continuous two-way flow of electricity and digital information. The projects leverage new technologies and tools in order to satisfy emerging customer requirements. These investments will renew and modernize delivery networks, reduce operating costs, enhance generating facility diversity, and improve energy efficiency.

### C3.1e

**(C3.1e) Describe where and how climate-related risks and opportunities have influenced your financial planning.**

	Financial planning elements that have been influenced	Description of influence
Row 1	Revenues Direct costs Capital expenditures Access to capital Assets Liabilities	Integrated resource planning supports refinement of our company's strategy by examining a wide range of future planning scenarios. More specifically, this includes consideration of our voluntary CO2 reduction goals as well as potential future carbon policies and pricing. Resource plan sensitivity analyses then further considers additional variables including but not limited to: existing and new generating facilities; environmental costs and limits; fuel prices; capacity prices; market energy, and generating facility retirements. For example, scenario evaluation identified that over the long-term savings in fossil fuel costs could be used to offset capital expenditures to add new renewable generation. Our integrated resource planning process resulted in our

	<p>investment in 1,200 MW of additional wind between 2016 and 2020, and has identified investment in an additional 1,000 MW of solar between 2019 and 2023.</p> <p>We have issued \$1.1 billion in green bonds to finance affordable renewable energy projects. In 2019, we completed two of the wind projects financed by these green bonds (English Farms and Upland Prairie) and these commenced commercial operations reducing CO2e emissions by approximately 712,000 metric tons.</p> <p>We consider liabilities in our financial planning process as fossil-fueled and other generation is retired and replaced. Recognized Asset Retirement Obligations (AROs) relate to legal obligations for the removal, closure or dismantlement of several assets including, but not limited to, wind farms, fossil-fueled facilities, ash ponds, active ash landfills, above ground storage tanks and solar generation. Recognized AROs also include legal obligations for the management and final disposition of asbestos and polychlorinated biphenyls. Our decommissioning department works with our financial planners to factor the costs of closure of these assets into our cost models.</p> <p>Costs incurred to fund energy efficiency programs and initiatives that help customers reduce their energy usage are direct costs in the income statement. These costs are recovered from retail electric and gas customers and recorded as revenues. Our financial planning considers these costs as well as the benefits achieved by our state energy efficiency programs. In our efforts to ensure that our electricity services remain affordable, we then use this information to understand the costs and benefits to improve our energy efficiency programs including setting performance goals. In Iowa, these results are factored into our Energy Efficiency Plan (EEP). In March 2019, IPL received regulatory approval of its 2019-2023 EEP. This EEP includes savings targets of 610.8 Gigawatt-hours and 2.5 million therms over five years. For WPL, the Focus on Energy program is managed by the state of Wisconsin. WPL contributes 1.2% of its annual retail utility revenues to help fund Focus on Energy. Program goals and initiatives are established on a state-wide basis.</p> <p>Revenues and direct costs are impacted by our energy sales. Climate-related opportunities like electrification are considered by our forecast analysts as part of our financial planning. We are also working to increase business adoption of electric forklifts, electric truck refrigeration units, and replacing commercial transportation and delivery fleets with electric vehicles (EVs). Our company also supports residential adoption by sponsoring various rebates and educational events. Through electrification, we believe that electricity can enable broader economy-</p>
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		<p>wide carbon reductions. Our financial planning for electrification supports our strategic implementation of various electrification initiatives. Alliant Energy's 2019 customer electrification results included:</p> <ul style="list-style-type: none"> <li>- 43 residential customer rebates toward Level 2 EV charging stations</li> <li>- 7 non-residential customer rebates resulting in 12 additional Level 2 EV charging ports</li> <li>- Rebates supporting electrification for 84 forklifts and 2 transport refrigeration units</li> <li>- Estimated annual load growth of 1.7 million kilowatt-hours from non-road electrification</li> </ul>
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### C3.1f

**(C3.1f) Provide any additional information on how climate-related risks and opportunities have influenced your strategy and financial planning (optional).**

## C4. Targets and performance

### C4.1

**(C4.1) Did you have an emissions target that was active in the reporting year?**

Absolute target

#### C4.1a

**(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.**

---

**Target reference number**

Abs 1

**Year target was set**

2018

**Target coverage**

Company-wide

**Scope(s) (or Scope 3 category)**

Scope 1

**Base year**

2005

**Covered emissions in base year (metric tons CO2e)**

21,597,490

**Covered emissions in base year as % of total base year emissions in selected Scope(s) (or Scope 3 category)**

97

**Target year**

2030

**Targeted reduction from base year (%)**

40

**Covered emissions in target year (metric tons CO<sub>2</sub>e) [auto-calculated]**

12,958,494

**Covered emissions in reporting year (metric tons CO<sub>2</sub>e)**

14,143,617

**% of target achieved [auto-calculated]**

86.2817044944

**Target status in reporting year**

Underway

**Is this a science-based target?**

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

**Please explain (including target coverage)**

Alliant Energy strives to accelerate emissions reductions as part of its Clean Energy Vision to implement a strategy to affordably meet the energy needs of customers and recognize the importance of using resources in efficient and environmentally responsible ways. In addition, focusing on clean energy will help make our communities more competitive for economic development. In 2019, our fossil-fuel generation carbon dioxide (CO<sub>2</sub>) emissions decreased 35% from 2005 levels. In addition, we also recently achieved one of our goals – to have 30% of our energy mix come from carbon-free renewable resources – 10 years ahead of schedule.

In 2020, our Clean Energy Vision goals were updated given the significant progress achieved adding new company-owned wind generation (1,150 MW) and plans to implement solar generation (1,000 MW). The updates include:

- Achieving a 50% reduction in CO<sub>2</sub> emissions by 2030 (up from our prior goal of 40%)
- Eliminating all coal from our generation fleet by 2040 (10 years faster than our previous target)
- Adding an aspirational goal that achieves net-zero CO<sub>2</sub> emissions from the electricity we generate by 2050

Alliant Energy's plans for a clean energy future are expected to be consistent with the

carbon reductions and climate goals pledged originally by the U.S. under the voluntary United Nations Paris Accord. Our company is participating in an Electric Power Research Institute (EPRI) technical study assessing the relationship between company-specific carbon transition scenarios and scientific research on the projected emission reductions derived from global climate warming models. Key insights from the published study found that there is significant uncertainty between modeled predictions for achieving a global temperature goal and an individual company's emission pathway. EPRI's updated evaluation "Review of 1.5°C and Other Newer Global Emissions Scenarios" provides additional insights when considering how to attain a net-zero goal. This includes finding that significant additional electrification and continued fossil energy use could be consistent with limiting warming to 2°C and even 1.5° by 2050. Alliant Energy believes that our aspirational goal to reach net-zero CO<sub>2</sub> emissions by 2050 for the electricity we generate is within the range of plausible scenarios shown in the EPRI technical study to limit global warming.

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**Target reference number**

Abs 2

**Year target was set**

2018

**Target coverage**

Company-wide

**Scope(s) (or Scope 3 category)**

Scope 1

**Base year**

2005

**Covered emissions in base year (metric tons CO<sub>2</sub>e)**

21,597,490

**Covered emissions in base year as % of total base year emissions in selected Scope(s) (or Scope 3 category)**

97

**Target year**

2050

**Targeted reduction from base year (%)**

80

**Covered emissions in target year (metric tons CO<sub>2</sub>e) [auto-calculated]**

4,319,498

**Covered emissions in reporting year (metric tons CO<sub>2</sub>e)**

14,143,617

**% of target achieved [auto-calculated]**

43.1408522472

**Target status in reporting year**

Underway

**Is this a science-based target?**

Yes, we consider this a science-based target, but this target has not been approved as science-based by the Science-Based Targets initiative

**Please explain (including target coverage)**

Alliant Energy strives to accelerate emissions reductions as part of its Clean Energy Vision to implement a strategy to affordably meet the energy needs of customers and recognize the importance of using resources in efficient and environmentally responsible ways. In addition, focusing on clean energy will help make our communities more competitive for economic development. In 2019, our fossil-fuel generation carbon dioxide (CO<sub>2</sub>) emissions decreased 35% from 2005 levels. In addition, we also recently achieved one of our goals – to have 30% of our energy mix come from carbon-free renewable resources – 10 years ahead of schedule.

In 2020, our Clean Energy Vision goals were updated given the significant progress achieved adding new company-owned wind generation (1,150 MW) and plans to implement solar generation (1,000 MW). The updates include:

- Achieving a 50% reduction in CO<sub>2</sub> emissions by 2030 (up from our prior goal of 40%)
- Eliminating all coal from our generation fleet by 2040 (10 years faster than our previous target)
- Adding an aspirational goal that achieves net-zero CO<sub>2</sub> emissions from the electricity we generate by 2050

Alliant Energy's plans for a clean energy future are expected to be consistent with the carbon reductions and climate goals pledged originally by the U.S. under the voluntary United Nations Paris Accord. Our company is participating in an Electric Power Research Institute (EPRI) technical study assessing the relationship between company-specific carbon transition scenarios and scientific research on the projected emission reductions derived from global climate warming models. Key insights from the published study found that there is significant uncertainty between modeled predictions for achieving a global temperature goal and an individual company's emission pathway. EPRI's updated evaluation "Review of 1.5°C and Other Newer Global Emissions Scenarios" provides additional insights when considering how to attain a net-zero goal. This includes finding that significant additional electrification and continued fossil energy use could be consistent with limiting warming to 2°C and even 1.5° by 2050. Alliant Energy believes that our aspirational goal to reach net-zero CO<sub>2</sub> emissions by 2050 for the electricity we generate is within the range of plausible scenarios shown in the EPRI technical study to limit global warming.

## C4.2

**(C4.2) Did you have any other climate-related targets that were active in the reporting year?**

Other climate-related target(s)

### C4.2b

**(C4.2b) Provide details of any other climate-related targets, including methane reduction targets.**

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**Target reference number**

Oth 1

**Year target was set**

2018

**Target coverage**

Company-wide

**Target type: absolute or intensity**

Intensity

**Target type: category & Metric (target numerator if reporting an intensity target)**

Other, please specify

Other, please specify

Alliant Energy's Clean Energy Vision includes a target to have 30% of our energy mix come from renewable resources by 2030.

**Target denominator (intensity targets only)**

Other, please specify

The goal is to have 30% of our energy mix come from renewable resources. This is determined based on our company's overall portfolio of generation used to supply power to our customers based on rated capacity in megawatts.

**Base year**

2005

**Figure or percentage in base year**

5

**Target year**

2030

**Figure or percentage in target year**

30

**Figure or percentage in reporting year**

25

**% of target achieved [auto-calculated]**

80

**Target status in reporting year**

Underway

**Is this target part of an emissions target?**

Yes, this is part of our company's Clean Energy Vision. By accelerating development of our company-owned renewable generation we are able to transition off of fossil-fuels and retire existing coal assets. This will enable achievement of our company's CO2 emission reduction goals.

**Is this target part of an overarching initiative?**

Other, please specify

Alliant Energy's Clean Energy Blueprint and sustainable energy plan guides our long-term transition to meet customers' future energy needs by Powering What's Next.

**Please explain (including target coverage)**

Alliant Energy strives to accelerate emissions reductions as part of its Clean Energy Vision to implement a strategy to affordably meet the energy needs of customers and recognize the importance of using resources in efficient and environmentally responsible ways. In addition, focusing on clean energy will help make our communities more competitive for economic development. In 2019, our company made significant progress adding company-owned wind generation (1,150 MW) that began commercial operation in 2020 adding this clean energy supply for our customers. These additions supported our company's recent achievement of this goal – to have 30% of our energy mix come from carbon-free renewable resources – 10 years ahead of schedule.

In 2020, our Clean Energy Vision goals were updated and we are beginning the next chapter of our sustainability story by accelerating our path to eliminating all coal from our energy mix and establishing new CO2 emissions goals for energy generation.

- Achieving a 50% reduction in CO2 emissions by 2030 (up from our prior goal of 40%)
- Eliminating all coal from our generation fleet by 2040 (10 years faster than our previous target)
- Adding an aspirational goal that achieves net-zero CO2 emissions from the electricity we generate by 2050

The key to achieving these goals is expanding our use of clean energy sources, like wind and solar. In May 2020, we announced plans to retire one of our Wisconsin coal-fired generating facilities and the first phase of construction that puts us on a path to add 1,000 megawatts of solar in Wisconsin by 2023. It's all part of our Wisconsin Clean Energy Blueprint. Our Iowa blueprint will be completed later in 2020. To create even greater reliability for our customers, we are also investing \$2.2 billion planned investments to build smarter and more resilient energy infrastructure. Collectively, it's a

cost-effective way to deliver sustainable benefits while creating new jobs, providing tax revenues and generating economic development opportunities.

### C4.3

**(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.**

Yes

### C4.3a

**(C4.3a) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO2e savings.**

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	0	
To be implemented*	7	3,142,340
Implementation commenced*	4	1,693,147
Implemented*	4	1,604,144
Not to be implemented	0	

### C4.3b

**(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.**

**Initiative category & Initiative type**

Other, please specify

Other, please specify

Retirement of fossil fuel-fired generation including Edgewater Unit 4 (239 MW coal-fired) and ML Kapp Unit 2 (218 MW gas-fired, formerly coal-fired) resulted in reductions of direct emissions of greenhouse gas emissions during 2019.

**Estimated annual CO2e savings (metric tonnes CO2e)**

892,104

**Scope(s)**

Scope 1

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

0

**Investment required (unit currency – as specified in C0.4)**

49,500,000

**Payback period**

4-10 years

**Estimated lifetime of the initiative**

>30 years

**Comment**

Question 4.3a:

Projects to be implemented include future retirement of our Edgewater Unit 5 unit (414 MW coal-fired) in 2022 and the addition of six solar generation projects in Wisconsin totaling 675 MW by the end of 2023.

Projects implementation commenced include the addition of four wind generation projects in Iowa totaling 680 MW.

Projects implemented include retirement of Alliant Energy's coal-fired Edgewater Unit 4 and gas-fired ML Kapp Unit 2.

Projects implemented include commercial operation of two wind generation projects in Iowa totaling 470 MW.

Question 4.3b:

Alliant Energy has retired older and less-efficient fossil fuel electric generating units. As a result, the remaining net book value of these assets was reclassified from property, plant and equipment to a regulatory asset on their respective balance sheets. This includes Edgewater Unit 4 and ML Kapp Unit 2 that were retired during 2018 and therefore no longer operational in 2019. The investment value provided represents the regulatory asset balance as of December 1, 2019. Alliant Energy reports details regarding the recovery of the remaining net book value of these assets in its Form 10K filing to the U.S. Securities and Exchange Commission. The investment required represents the return of and return on remaining net book value over 10 years for these generation units. Annual monetary savings are assumed to be zero because as an electric utility there will be no reduction in our energy costs.

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**Initiative category & Initiative type**

Low-carbon energy generation

Wind

**Estimated annual CO<sub>2</sub>e savings (metric tonnes CO<sub>2</sub>e)**

712,040

**Scope(s)**

Scope 1

**Voluntary/Mandatory**

Voluntary

**Annual monetary savings (unit currency – as specified in C0.4)**

0

**Investment required (unit currency – as specified in C0.4)**

726,696,292

**Payback period**

>25 years

**Estimated lifetime of the initiative**

21-30 years

**Comment**

Question 4.3b: Alliant Energy commenced commercial operation of two company-owned wind farms in 2019 including the 170 MW English Farms site in Poweshiek County, Iowa and the Upland Prairie site in Clay and Dickinson in Iowa. Investment figure provided is through June 2020. Annual monetary savings are assumed to be zero because as an electric utility there will be no reduction in our energy costs.

**C4.3c**

**(C4.3c) What methods do you use to drive investment in emissions reduction activities?**

Method	Comment
Compliance with regulatory requirements/standards	Since our electric rates are regulated, we are only allowed to pass along costs to customers for activities that are deemed to be economically prudent or mandated by law. EPA regulations governing emissions from existing electric generators could drive significant investment in the future.
Dedicated budget for energy efficiency	In March 2019, our Iowa utility subsidiary IPL received regulatory approval of its 2019-2023 Energy Efficiency Plan (EEP). The spending target is \$233.11 million and this EEP includes savings targets of 610.8 Gigawatt-hours and 2.5 million therms over five years.  Alliant Energy's Wisconsin utility subsidiary WPL contributes 1.2% of its annual retail utility revenues to help fund Focus on Energy. Program goals and initiatives are established on a state-wide basis working with all participating utilities and publicly reported on the Focus on Energy website.
Dedicated budget for low-carbon product R&D	Alliant Energy supports research and development projects to better understand long-term carbon planning. This includes projects to expand knowledge on our clean energy transition, such as analyzing

	the impacts of emerging technologies, strategies for electric vehicles and customer electrification, and integration of distributed renewables and energy storage.
Internal price on carbon	Alliant Energy utilizes an internal price of carbon in generation planning decisions, which influences and encourages investment in low-carbon generation and divestment of high-carbon generation.
Other Company strategy	Alliant Energy strives to accelerate emissions reductions as part of its Clean Energy Vision to implement a strategy to affordably meet the energy needs of customers and recognize the importance of using resources in efficient and environmentally responsible ways. Investments we have made related to our strategy include new wind development, solar development and grid modernization.

## C4.5

**(C4.5) Do you classify any of your existing goods and/or services as low-carbon products or do they enable a third party to avoid GHG emissions?**

Yes

## C4.5a

**(C4.5a) Provide details of your products and/or services that you classify as low-carbon products or that enable a third party to avoid GHG emissions.**

### Level of aggregation

Product

### Description of product/Group of products

The Second Nature program allows our residential and non-residential customers to support electricity generated from wind and solar resources located in Iowa and Wisconsin. There is no special equipment to buy and no lifestyle changes needed. Residential customers can choose from three participation levels: 25%, 50% or 100% of their annual usage. All other customers can elect a flat monthly amount. At the end of 2019, more than 8,000 customers were participating in Wisconsin and 5,600 customers in Iowa.

### Are these low-carbon product(s) or do they enable avoided emissions?

Low-carbon product

### Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Other, please specify

A third party verifies annually that all electricity purchased on behalf of Second Nature participants comes from qualified renewable resources.

**% revenue from low carbon product(s) in the reporting year**

0.5

**Comment**

---

**Level of aggregation**

Group of products

**Description of product/Group of products**

We are expanding renewable options for our Wisconsin and Iowa customers with three new voluntary programs. These offerings include:

- A community solar program that allows customers to subscribe to energy from a centralized solar garden in a nearby community, establishing a long-term customer connection. This provides another option for customers to participate in solar energy as a renewable alternative who may not choose or be able to host solar power on their home or business.
- A customer-hosted renewables program that allows Alliant Energy to partner with commercial and industrial customers who desire on-site renewable energy resources, in exchange for a lease payment to the customer.
- Individualized renewable energy contracts tailored to the needs of commercial and industrial customers and that are tied to dedicated renewable resources. Customers with multiple accounts would be able to aggregate their service under a single renewable energy contract. Customers can meet their sustainability goals in receiving renewable energy credits associated with the renewable resource.

**Are these low-carbon product(s) or do they enable avoided emissions?**

Low-carbon product

**Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions**

Other, please specify

Renewable energy credits are tracked in the Midwest Renewable Energy Tracking System (M-RETS).

**% revenue from low carbon product(s) in the reporting year**

0

**Comment**

These are brand new programs that were recently approved by our utility commissions in 2019 and 2020. Therefore, development of projects with customers has just commenced recently and there was no revenue for 2019.

## C-EU4.6

**(C-EU4.6) Describe your organization's efforts to reduce methane emissions from your activities.**

Alliant Energy actively manages its facilities to ensure that any air emissions are limited including fugitive emissions related to natural gas infrastructure, which are negligible from our operations. Managing natural gas effectively to minimize any methane losses is important to keeping our operational costs low for our customers. In addition, we operate our generation facilities as efficiently as possible to minimize methane resulting from combustion of fossil fuels.

## C5. Emissions methodology

### C5.1

**(C5.1) Provide your base year and base year emissions (Scopes 1 and 2).**

#### Scope 1

---

**Base year start**

January 1, 2005

**Base year end**

December 31, 2005

**Base year emissions (metric tons CO<sub>2</sub>e)**

21,597,490

**Comment**

#### Scope 2 (location-based)

---

**Base year start**

January 1, 2014

**Base year end**

December 31, 2014

**Base year emissions (metric tons CO<sub>2</sub>e)**

5,759.86

**Comment**

#### Scope 2 (market-based)

---

**Base year start**

January 1, 2014

**Base year end**

December 31, 2014

**Base year emissions (metric tons CO<sub>2</sub>e)**

5,759.86

**Comment**

## C5.2

**(C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.**

US EPA Center for Corporate Climate Leadership: Indirect Emissions From Purchased Electricity

US EPA Center for Corporate Climate Leadership: Direct Emissions from Stationary Combustion Sources

US EPA Center for Corporate Climate Leadership: Direct Emissions from Mobile Combustion Sources

US EPA Mandatory Greenhouse Gas Reporting Rule

US EPA Emissions & Generation Resource Integrated Database (eGRID)

## C6. Emissions data

### C6.1

**(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO<sub>2</sub>e?**

**Reporting year**

---

**Gross global Scope 1 emissions (metric tons CO<sub>2</sub>e)**

14,296,482

**Start date**

January 1, 2019

**End date**

December 31, 2019

**Comment**

**Past year 1**

---

**Gross global Scope 1 emissions (metric tons CO<sub>2</sub>e)**

17,626,209

**Start date**

January 1, 2018

**End date**

December 31, 2018

**Comment**

**Past year 2**

---

**Gross global Scope 1 emissions (metric tons CO2e)**

16,450,399

**Start date**

January 1, 2017

**End date**

December 31, 2017

**Comment**

**Past year 3**

---

**Gross global Scope 1 emissions (metric tons CO2e)**

14,478,826

**Start date**

January 1, 2016

**End date**

December 31, 2016

**Comment**

## C6.2

**(C6.2) Describe your organization's approach to reporting Scope 2 emissions.**

**Row 1**

---

**Scope 2, location-based**

We are reporting a Scope 2, location-based figure

**Scope 2, market-based**

We are reporting a Scope 2, market-based figure

**Comment**

## C6.3

**(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO<sub>2</sub>e?**

### Reporting year

---

**Scope 2, location-based**

4,910.58

**Scope 2, market-based (if applicable)**

4,910.58

**Start date**

January 1, 2019

**End date**

December 31, 2019

**Comment**

### Past year 1

---

**Scope 2, location-based**

4,820.42

**Scope 2, market-based (if applicable)**

4,811.42

**Start date**

January 1, 2018

**End date**

December 31, 2018

**Comment**

### Past year 2

---

**Scope 2, location-based**

4,039.48

**Scope 2, market-based (if applicable)**

4,021.27

**Start date**

January 1, 2017

**End date**

December 31, 2017

**Comment**

**Past year 3**

---

**Scope 2, location-based**

3,836.15

**Scope 2, market-based (if applicable)**

3,836.15

**Start date**

January 1, 2016

**End date**

December 31, 2016

**Comment**

## C6.4

**(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?**

No

## C6.5

**(C6.5) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.**

**Purchased goods and services**

---

**Evaluation status**

Relevant, not yet calculated

**Please explain**

Existing data sources and systems to efficiently and effectively collect these Scope 3 emissions is not currently available at this time.

**Capital goods**

---

**Evaluation status**

Relevant, not yet calculated

**Please explain**

Existing data sources and systems to efficiently and effectively collect these Scope 3 emissions is not currently available at this time.

## Fuel-and-energy-related activities (not included in Scope 1 or 2)

---

### Evaluation status

Relevant, calculated

### Metric tonnes CO<sub>2</sub>e

2,296,699

### Emissions calculation methodology

In 2019, our company had energy market purchases from the Midcontinent Independent System Operator (MISO) energy market system and these emissions are estimated using a regional average rate. There are zero emissions from purchased power agreements that are from non-emitting renewable energy sources including wind, solar, biomass and biogas. Adjustments are made for sales or transfers of renewable energy credits and associated emissions are also estimated for this null power using a regional average rate. The regional average rates are determined using the available residual emission rates and also emission rates from the Environmental Protection Agency's eGRID 2018 database based on the applicable MISO regions (MROE for our Wisconsin utility operations and MROW for our Iowa utility operations).

### Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

### Please explain

It is not possible to obtain specific information on the actual sources of general market energy purchases from MISO sufficient to determine the corresponding emissions characteristics. Therefore, as described above, we use regional average rates as a proxy for these emissions estimates. There are zero emissions associated with our purchase power agreements for renewable energy.

## Upstream transportation and distribution

---

### Evaluation status

Not evaluated

### Please explain

Existing data sources and systems to efficiently and effectively collect these Scope 3 emissions is not currently available at this time.

## Waste generated in operations

---

### Evaluation status

Not evaluated

### Please explain

Existing data sources and systems to efficiently and effectively collect these Scope 3 emissions is not currently available at this time.

### **Business travel**

---

#### **Evaluation status**

Not evaluated

#### **Please explain**

Existing data sources and systems to efficiently and effectively collect these Scope 3 emissions is not currently available at this time.

### **Employee commuting**

---

#### **Evaluation status**

Not evaluated

#### **Please explain**

Existing data sources and systems to efficiently and effectively collect these Scope 3 emissions is not currently available at this time.

### **Upstream leased assets**

---

#### **Evaluation status**

Not relevant, explanation provided

#### **Please explain**

Not applicable to Alliant Energy's operations.

### **Downstream transportation and distribution**

---

#### **Evaluation status**

Not evaluated

#### **Please explain**

Existing data sources and systems to efficiently and effectively collect these Scope 3 emissions is not currently available at this time.

### **Processing of sold products**

---

#### **Evaluation status**

Not relevant, calculated

#### **Metric tonnes CO<sub>2</sub>e**

0

#### **Emissions calculation methodology**

Alliant Energy works with state regulatory agencies to identify approved beneficial uses for coal combustion residuals (CCR). In 2019, we were able to beneficially use 60% of the CCR generated. Nearly all (97%) of the beneficially used material went to encapsulated applications as a direct replacement material for use in cement in

concrete mixtures, subbase under hard surfaces, or asphalt. The rest was comprised of scrubber solids that were used directly to improve agricultural soil conditions. These types of beneficial uses do not require additional processing.

In addition, using fly ash to replace cement provides several environmental benefits. This includes eliminating the need to mine virgin materials, conserving land otherwise used for disposal, and avoiding impacts associated with cement manufacturing processes including energy, water and emissions. It is estimated that for every ton of fly ash used to replace traditional cement a ton of carbon dioxide (CO<sub>2</sub>) is saved. Thus, preventing this greenhouse gas from entering the Earth's atmosphere. However, the CDP reporting system does not permit reporting of reductions due to avoided emissions. The estimated amount of avoided emissions is approximately 174,000 metric tons of CO<sub>2</sub>e.

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

0

**Please explain**

There are no emissions to estimate so data is not needed from our value chain partners.

**Use of sold products**

---

**Evaluation status**

Relevant, calculated

**Metric tonnes CO<sub>2</sub>e**

5,209,596

**Emissions calculation methodology**

Following the requirements of CFR 40 Part 98, Subpart NN, the company reports the potential CO<sub>2</sub> quantities associated with natural gas received by end-users that receive less than 460,000 thousand standard cubic feet of natural gas per year at a single meter from the company. The use of electric energy does not cause any further greenhouse gas emissions and these are estimated to be 0 metric tons.

**Percentage of emissions calculated using data obtained from suppliers or value chain partners**

0

**Please explain**

Information from our suppliers and value chain partners is not needed to do this emissions estimate. Billing records and information submitted to the Energy Information Agency support the information reported under Environmental Protection Agency's Mandatory Greenhouse Gas Reporting Program. Natural gas distribution companies must report the CO<sub>2</sub> emissions that would result from the complete combustion or oxidation of the annual volumes of natural gas provided to end-users that receive less

than 460,000 thousand standard cubic feet of natural gas per year at a single meter from the company.

### **End of life treatment of sold products**

---

#### **Evaluation status**

Not relevant, explanation provided

#### **Please explain**

Electricity and natural gas products do not have a conventional useful life. There is no end of life treatment required for electricity after it is used by our customers because it is fully depleted.

### **Downstream leased assets**

---

#### **Evaluation status**

Not relevant, explanation provided

#### **Please explain**

Not applicable to Alliant Energy's operations.

### **Franchises**

---

#### **Evaluation status**

Not relevant, explanation provided

#### **Please explain**

Not applicable to Alliant Energy's operations.

### **Investments**

---

#### **Evaluation status**

Not relevant, explanation provided

#### **Please explain**

Not applicable to Alliant Energy's operations.

### **Other (upstream)**

---

#### **Evaluation status**

Not relevant, explanation provided

#### **Please explain**

Not applicable to Alliant Energy's operations.

### **Other (downstream)**

---

#### **Evaluation status**

Not relevant, explanation provided

#### **Please explain**

Not applicable to Alliant Energy's operations.

## C6.7

**(C6.7) Are carbon dioxide emissions from biogenic carbon relevant to your organization?**

No

## C6.10

**(C6.10) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO<sub>2</sub>e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.**

---

**Intensity figure**

0.63

**Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO<sub>2</sub>e)**

14,301,392

**Metric denominator**

megawatt hour generated (MWh)

**Metric denominator: Unit total**

22,837,363

**Scope 2 figure used**

Market-based

**% change from previous year**

16

**Direction of change**

Decreased

**Reason for change**

The decrease in emissions intensity was due to lower emissions from retirement of fossil-fueled facilities and a significant increase in owned wind generation in 2019.

## C7. Emissions breakdowns

### C7.1

**(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type?**

Yes

## C7.1a

**(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used greenhouse warming potential (GWP).**

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	14,198,274	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	47,558	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	50,649	IPCC Fourth Assessment Report (AR4 - 100 year)

## C-EU7.1b

**(C-EU7.1b) Break down your total gross global Scope 1 emissions from electric utilities value chain activities by greenhouse gas type.**

	Gross Scope 1 CO2 emissions (metric tons CO2)	Gross Scope 1 methane emissions (metric tons CH4)	Gross Scope 1 SF6 emissions (metric tons SF6)	Total gross Scope 1 emissions (metric tons CO2e)	Comment
Fugitives	84.9	1,715.78	0	42,979.4	Emissions from natural gas distribution lines. Emissions values shown are already multiplied by the GWP to sum to the total CO2e amounts.
Combustion (Electric utilities)	14,175,449.47	186.32	0	14,230,722.17	There is no column for N2O emissions, these are 50,614.70 metric tons. Emissions values shown are already multiplied by the GWP to sum to the total CO2e amounts.

Combustion (Gas utilities)	0	0	0	0	
Combustion (Other)	22,739.22	0.22	0	22,780.45	Emissions from fleet vehicles. There is no column for N2O emissions, these are 35.76 metric tons. Emissions values shown are already multiplied by the GWP to sum to the total CO2e amounts.
Emissions not elsewhere classified	0	0	0	0	

## C7.2

**(C7.2) Break down your total gross global Scope 1 emissions by country/region.**

Country/Region	Scope 1 emissions (metric tons CO2e)
United States of America	14,296,482

## C7.3

**(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.**

By business division

### C7.3a

**(C7.3a) Break down your total gross global Scope 1 emissions by business division.**

Business division	Scope 1 emissions (metric ton CO2e)
Interstate Power and Light Company (IPL)	7,777,966
Wisconsin Power and Light Company (WPL)	6,518,515

## C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4

**(C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4) Break down your organization's total gross global Scope 1 emissions by sector production activity in metric tons CO2e.**

Gross Scope 1 emissions, metric tons CO2e	Comment
---	---------

Electric utility activities	14,230,723	
-----------------------------	------------	--

## C7.9

**(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?**

Decreased

### C7.9a

**(C7.9a) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined), and for each of them specify how your emissions compare to the previous year.**

	Change in emissions (metric tons CO <sub>2</sub> e)	Direction of change	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	0	No change	0	We do not consume renewable energy; all renewable energy we produce or purchase is provided to customers.
Other emissions reduction activities	3,329,629	Decreased	19	Fossil-fueled retirements and significant increase in owned generation have resulted in reduced emissions.
Divestment	0	No change	0	Not applicable - there were no divestments in 2019.
Acquisitions	0	No change	0	Not applicable - there were no acquisitions in 2019.
Mergers	0	No change	0	Not applicable - there were no mergers in 2019.
Change in output	0	No change	0	Changes in output are reflected in other emissions reduction activities above, associated with plant retirements.
Change in methodology	0	No change	0	Not applicable - there were no changes in methodology in 2019.
Change in boundary	0	No change	0	Not applicable - there were no changes in boundary in 2019.

Change in physical operating conditions	0	No change	0	Not applicable - there were no changes in physical operating conditions in 2019.
Unidentified	0	No change	0	Not applicable - there were no other unidentified changes in 2019.
Other	0	No change	0	Not applicable - there no other changes in 2019.

## C7.9b

**(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?**

Market-based

## C8. Energy

### C8.1

**(C8.1) What percentage of your total operational spend in the reporting year was on energy?**

More than 25% but less than or equal to 30%

### C8.2

**(C8.2) Select which energy-related activities your organization has undertaken.**

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	Yes
Consumption of purchased or acquired electricity	No
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	No
Consumption of purchased or acquired cooling	No
Generation of electricity, heat, steam, or cooling	Yes

## C8.2a

**(C8.2a) Report your organization’s energy consumption totals (excluding feedstocks) in MWh.**

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	HHV (higher heating value)	0	1,033,016	1,033,016
Consumption of self-generated non-fuel renewable energy		0		0
Total energy consumption		0	1,033,016	1,033,016

## C8.2b

**(C8.2b) Select the applications of your organization’s consumption of fuel.**

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	Yes
Consumption of fuel for the generation of heat	No
Consumption of fuel for the generation of steam	Yes
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	No

## C8.2c

**(C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.**

**Fuels (excluding feedstocks)**

Subbituminous Coal

**Heating value**

HHV (higher heating value)

**Total fuel MWh consumed by the organization**

698,973

**MWh fuel consumed for self-generation of electricity**

0

**MWh fuel consumed for self-generation of heat**

0

**MWh fuel consumed for self-generation of steam**

0

**Emission factor**

97.17

**Unit**

kg CO2 per million Btu

**Emissions factor source**

EPA Table C-1 to Subpart C of 40 CFR Part 98

**Comment**

---

**Fuels (excluding feedstocks)**

Natural Gas

**Heating value**

HHV (higher heating value)

**Total fuel MWh consumed by the organization**

333,814

**MWh fuel consumed for self-generation of electricity**

0

**MWh fuel consumed for self-generation of heat**

0

**MWh fuel consumed for self-generation of steam**

0

**Emission factor**

53.06

**Unit**

kg CO2 per million Btu

**Emissions factor source**

EPA Table C-1 to Subpart C of 40 CFR Part 98

**Comment**

---

**Fuels (excluding feedstocks)**

Distillate Oil

**Heating value**

HHV (higher heating value)

**Total fuel MWh consumed by the organization**

229

**MWh fuel consumed for self-generation of electricity**

0

**MWh fuel consumed for self-generation of heat**

0

**MWh fuel consumed for self-generation of steam**

0

**Emission factor**

73.96

**Unit**

kg CO2 per million Btu

**Emissions factor source**

EPA Table C-1 to Subpart C of 40 CFR Part 98

**Comment**

**C-EU8.2d**

(C-EU8.2d) For your electric utility activities, provide a breakdown of your total power plant capacity, generation, and related emissions during the reporting year by source.

**Coal – hard**

---

**Nameplate capacity (MW)**

2,282

**Gross electricity generation (GWh)**

9,399.5

**Net electricity generation (GWh)**

8,643.02

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

9,468,319

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

1,007.32

**Comment**

**Lignite**

---

**Nameplate capacity (MW)**

0

**Gross electricity generation (GWh)**

0

**Net electricity generation (GWh)**

0

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

**Oil**

---

**Nameplate capacity (MW)**

90

**Gross electricity generation (GWh)**

5.46

**Net electricity generation (GWh)**

4.96

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

1,772

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

324.58

**Comment**

**Gas**

---

**Nameplate capacity (MW)**

3,521

**Gross electricity generation (GWh)**

11,452.27

**Net electricity generation (GWh)**

11,059.57

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

4,760,631

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

415.69

**Comment**

**Biomass**

---

**Nameplate capacity (MW)**

0

**Gross electricity generation (GWh)**

0

**Net electricity generation (GWh)**

0

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

**Waste (non-biomass)**

---

**Nameplate capacity (MW)**

0

**Gross electricity generation (GWh)**

0

**Net electricity generation (GWh)**

0

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

**Nuclear**

---

**Nameplate capacity (MW)**

0

**Gross electricity generation (GWh)**

0

**Net electricity generation (GWh)**

0

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

**Fossil-fuel plants fitted with CCS**

---

**Nameplate capacity (MW)**

0

**Gross electricity generation (GWh)**

0

**Net electricity generation (GWh)**

0

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

**Geothermal**

---

**Nameplate capacity (MW)**

0

**Gross electricity generation (GWh)**

0

**Net electricity generation (GWh)**

0

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

**Hydropower**

---

**Nameplate capacity (MW)**

43

**Gross electricity generation (GWh)**

227.62

**Net electricity generation (GWh)**

227.62

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

**Wind**

---

**Nameplate capacity (MW)**

1,102

**Gross electricity generation (GWh)**

2,895.85

**Net electricity generation (GWh)**

2,895.85

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

## Solar

---

**Nameplate capacity (MW)**

5

**Gross electricity generation (GWh)**

6.35

**Net electricity generation (GWh)**

6.35

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

## Marine

---

**Nameplate capacity (MW)**

0

**Gross electricity generation (GWh)**

0

**Net electricity generation (GWh)**

0

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

## Other renewable

---

**Nameplate capacity (MW)**

0

**Gross electricity generation (GWh)**

0

**Net electricity generation (GWh)**

0

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

**Other non-renewable**

---

**Nameplate capacity (MW)**

0

**Gross electricity generation (GWh)**

0

**Net electricity generation (GWh)**

0

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

0

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

0

**Comment**

**Total**

---

**Nameplate capacity (MW)**

7,043

**Gross electricity generation (GWh)**

23,983.27

**Net electricity generation (GWh)**

22,837.36

**Absolute scope 1 emissions (metric tons CO<sub>2</sub>e)**

14,230,723

**Scope 1 emissions intensity (metric tons CO<sub>2</sub>e per GWh)**

593.36

**Comment**

## C-EU8.4

**(C-EU8.4) Does your electric utility organization have a transmission and distribution business?**

Yes

### C-EU8.4a

**(C-EU8.4a) Disclose the following information about your transmission and distribution business.**

---

**Country/Region**

United States of America

**Voltage level**

Distribution (low voltage)

**Annual load (GWh)**

22,837.36

**Annual energy losses (% of annual load)**

2.96

**Scope where emissions from energy losses are accounted for**

Scope 2 (location-based)

**Emissions from energy losses (metric tons CO<sub>2</sub>e)**

0

**Length of network (km)**

70,650

**Number of connections**

967,236

**Area covered (km<sup>2</sup>)**

140,815

**Comment**

Distribution losses are included in Scope 1 emissions because these emissions are a direct emission resulting from electricity production. The total number of retail customers is provided as a proxy for the number of connections.

## C9. Additional metrics

### C9.1

(C9.1) Provide any additional climate-related metrics relevant to your business.

### C-EU9.5a

(C-EU9.5a) Break down, by source, your total planned CAPEX in your current CAPEX plan for power generation.

Primary power generation source	CAPEX planned for power generation from this source	Percentage of total CAPEX planned for power generation	End year of CAPEX plan	Comment
Wind	305,000,000	19	2023	
Solar	775,000,000	47	2023	
Hydropower	37,000,000	2	2023	
Other, please specify Batteries	30,000,000	2	2023	
Gas	332,000,000	20	2023	
Coal – hard	160,000,000	10	2023	

### C-EU9.5b

(C-EU9.5b) Break down your total planned CAPEX in your current CAPEX plan for products and services (e.g. smart grids, digitalization, etc.).

Products and services	Description of product/service	CAPEX planned for product/service	Percentage of total CAPEX planned products and services	End of year CAPEX plan
Distributed generation	Distributed Energy Resource	20,000,000	42	2023
Lighting	LED Street Lighting	28,000,000	58	2023

### C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6

(C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6) Does your organization invest in research and development (R&D) of low-carbon products or services related to your sector activities?

	Investment in low-carbon R&D	Comment
Row 1	Yes	We support research and development (R&D) projects to better understand long-term planning to reduce CO2 emissions. In 2019, Alliant Energy invested \$3.4 million in various R&D programs. This amount includes both discretionary research funds and funds collected from customer billings as mandated by state regulations. R&D investments provide valuable insights to plan for evolving innovations and technology development in the energy industry. This includes projects to expand knowledge on our clean energy transition, such as analyzing the impacts of emerging technologies, strategies for electric vehicles and customer electrification, and integration of distributed renewable resources and energy storage.

### C-CO9.6a/C-EU9.6a/C-OG9.6a

**(C-CO9.6a/C-EU9.6a/C-OG9.6a) Provide details of your organization's investments in low-carbon R&D for your sector activities over the last three years.**

Technology area	Stage of development in the reporting year	Average % of total R&D investment over the last 3 years	R&D investment figure in the reporting year (optional)	Comment
Other, please specify Electric Power Research Institute	Basic academic/theoretical research	41-60%	1,738,683	Supports includes broad research related to climate change scenario evaluation and goal-setting, energy and environmental analyses, emerging carbon reduction technologies, electrification, energy storage, renewable energy, and grid modernization.
Other, please specify Iowa Energy Center	Applied research and development	21-40%	1,358,740	Support includes technology-based R&D development by encouraging public-private partnerships with innovative manufacturers to develop and bring to market new energy technologies. This includes electric grid modernization and

				alternative fuel vehicles as well as development of supportive infrastructure.
Other, please specify Center for Global and Regional Environmental Research	Basic academic/theoretical research	≤20%	239,778	Support includes interdisciplinary research on the many aspects of global environmental issues including climate change. Related areas of focus include regional effects on natural ecosystems, environments, energy resources, and effects on human health, culture, and social systems.
Other, please specify Iowa State University – Energy Power Research Center	Applied research and development	≤20%	25,001	Support includes study of power systems from large interconnected transmission grids to the inverters critical for renewable energy and energy storage integration. Research and education is driven to improve reliability, resiliency and security of the grid as more variable and distributed resources are connected, and as loads also become more variable.

## C10. Verification

### C10.1

**(C10.1) Indicate the verification/assurance status that applies to your reported emissions.**

	Verification/assurance status
Scope 1	Third-party verification or assurance process in place
Scope 2 (location-based or market-based)	No third-party verification or assurance
Scope 3	No emissions data provided

## C10.1a

**(C10.1a) Provide further details of the verification/assurance undertaken for your Scope 1 emissions, and attach the relevant statements.**

---

### Verification or assurance cycle in place

Annual process

### Status in the current reporting year

Complete

### Type of verification or assurance

Third party verification/assurance underway

### Attach the statement

 Attachment C10.1a Alliant Energy 2019 CO2 RATA\_PMA results.xlsx

### Page/ section reference

Alliant Energy operates CEMS to measure CO2 that complete third party RATA verification and track availability. For 2019, CEMS were over 98% accurate and over 99% available. Furthermore, emissions reported under 40 CFR Part 98 Mandatory Greenhouse Gas Reports and 40 CFR Part 70 Operating Permits require compliance certification by a Responsible Official. Our company also meets Compliance Assurance Monitoring criteria of 40 CFR Part 64 that defines data QA/QC used in compliance certifications.

### Relevant standard

Other, please specify

Alliant Energy operates Continuous Emissions Monitoring Systems (CEMS) as required under Clean Air Act 40 CFR Part 75 regulations. Mandatory Relative Accuracy Test Audit (RATA) compliance reports submitted to EPA are certified under penalty of law.

### Proportion of reported emissions verified (%)

99

## C10.2

**(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?**

No, we do not verify any other climate-related information reported in our CDP disclosure

## C11. Carbon pricing

### C11.1

**(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?**

No, and we do not anticipate being regulated in the next three years

### C11.2

**(C11.2) Has your organization originated or purchased any project-based carbon credits within the reporting period?**

No

### C11.3

**(C11.3) Does your organization use an internal price on carbon?**

Yes

### C11.3a

**(C11.3a) Provide details of how your organization uses an internal price on carbon.**

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#### **Objective for implementing an internal carbon price**

- Navigate GHG regulations
- Stakeholder expectations
- Drive low-carbon investment
- Stress test investments
- Identify and seize low-carbon opportunities

#### **GHG Scope**

Scope 1

#### **Application**

Alliant Energy's strategic planning and integrated resource plan (IRP) development uses modeling to support our Clean Energy Blueprint. Our company's Blueprint modeling utilizes economic projections for fuel prices, market energy costs, capacity prices and emissions costs, including carbon pricing. A wide range of future scenarios are considered with key aspects potentially affecting the electric utility industry including market and economic conditions (growth or stagnation), evolving industry trends (such as distributed renewables), advanced customer technologies, new environmental regulations, electrification and economy-wide carbon limits. Through the use of carbon pricing or application of carbon limits, our company considers the possible effects of policy mandates as well as other drivers to reduce greenhouse gas emissions on our

business plans. We monitor and periodically update these inputs as part of our strategic plans that anticipate a carbon-constrained future.

### **Actual price(s) used (Currency /metric ton)**

26

### **Variance of price(s) used**

The carbon price ranges applied by Alliant Energy vary and are assessed on a case-by-case basis to ensure these reflect the most current conditions potentially affecting the electric utility operations in our service areas. Alliant Energy applies forecasts that are based on projections prepared by third party energy analysts and consultants. Applying carbon-pricing is subject to significant uncertainties. However, our company's recent modeling has assumed a price of \$2/ton rising to \$26/ton between 2028 and 2040. These forecasts considered various changes to the electric utility industry as part of the larger global energy transition underway. Drivers for carbon pricing assumptions go beyond policy mandates since the electric utility industry has already surpassed reductions proposed originally under the Environmental Protection Agency's Clean Power Plan and reflect the increasing focus on sustainability goals to accelerate clean energy deployment in response to climate change. Furthermore, while US participation in the Paris Accord remains uncertain, initial commitments targeted levels close to a 28% reduction by 2025 applicable economy-wide. The electric power sector is also expected to exceed its share of these targets while further supporting broader carbon reductions in other sectors through electrification. Additional factors potentially affecting the variance of pricing used include trends to expand renewable generation, the pace of grid infrastructure modernization, supporting regulatory electric retail rate structures and energy market policies.

### **Type of internal carbon price**

Shadow price

### **Impact & implication**

The implication of carbon pricing, among other factors applied in our strategic business planning and integrated resource plan development for our Clean Energy Blueprint, has been to further support our company's transition to cleaner energy sources for our customers. Similarly, it has reinforced decisions to retire existing fossil-fueled electric generation. Consideration of carbon constraints in our integrated resource plans is one of many factors that our company includes when submitting applications for regulatory approval to our utility boards to authorize these changes to our energy mix. More specifically, we model scenarios that consider new environmental rules to reduce carbon dioxide (CO<sub>2</sub>) emissions and also economy-wide carbon limits to navigate potential future greenhouse gas regulation and proactively consider these impacts in our plans. We also consider carbon pricing to develop plans that are responsive to customer and other stakeholder expectations for cleaner energy that is safe, reliable and affordable. For example, outcomes from these scenarios help to evaluate the financial benefits of federal tax incentives for solar and wind as well as potential fossil fuel cost savings when we expand our renewable resources. This further supports the business case to take advantage of these opportunities by investing in these low-carbon

resources.

Therefore, the overall impact has been to further support our company's strategy and Clean Energy Vision. Furthermore, it has recently supported updating our Clean Energy Vision goals in 2020 as a result of the significant progress achieved adding new company-owned wind generation (1,150 MW) and plans to implement solar generation (1,000 MW). The updates include:

- Achieving a 50% reduction in CO2 emissions by 2030 (up from our prior goal of 40%)
- Eliminating all coal from our generation fleet by 2040 (10 years faster than our previous target)
- Adding an aspirational goal that achieves net-zero CO2 emissions from the electricity we generate by 2050

## C12. Engagement

### C12.1

**(C12.1) Do you engage with your value chain on climate-related issues?**

Yes, our customers

Yes, other partners in the value chain

### C12.1b

**(C12.1b) Give details of your climate-related engagement strategy with your customers.**

---

**Type of engagement**

Education/information sharing

**Details of engagement**

Share information about your products and relevant certification schemes (i.e. Energy STAR)

**% of customers by number**

0.8

**% of customer - related Scope 3 emissions as reported in C6.5**

0

**Please explain the rationale for selecting this group of customers and scope of engagement**

The City of Decorah in Iowa was a strong candidate for implementing a battery storage pilot, because one electric circuit that serves the community will start to reach capacity

as more customer-owned renewables are added. This pilot project is being installed on a circuit that's currently near capacity for solar.

### **Impact of engagement, including measures of success**

Supporting our customers efforts to expand clean solar energy is part of our company's strategy to achieve our Clean Energy Vision. However, it can also affect the performance and efficiency of the electric grid. Our integrated grid initiatives are conducting various pilot studies to address these potential issues. An innovative battery-storage solution in Decorah, Iowa, jointly supported by Alliant Energy, U.S. Department of Energy (DOE) and the Iowa Economic Development Authority (IEDA), is looking to seamlessly connect customer-owned solar while maintaining reliable electrical service across the community. Using batteries can add critical capacity and may save our customers money, because a battery costs a fraction of the total to upgrade our system.

The 2.5-megawatt, 2.922-megawatt-hour battery will serve as an "electron bank" to store excess solar power. It will store energy generated when the sun is most powerful and then release it in the evening, when demand for electricity peaks. It will also provide valuable insight into the challenges of providing reliable and affordable electricity in areas with a concentration of customer-owned solar. Lessons learned from the Decorah pilot will inform similar, future battery projects.

Measures of success include:

- o We set a goal of increasing the hosting capacity on the circuit by 400 KW
- o Learning as a whole through the execution of the pilot including key aspects that can be leveraged to other projects - design, communications, control, installation, and maintenance.

During 2019, our company conducted significant engagement with our project partners, the City of Decorah, regulators, customers and other local stakeholders on the planning and design aspects of this battery-storage pilot project. Integral to this effort was education and information-sharing to assess and refine our project plans. The Decorah energy storage project is expected to be complete and in-service by the end of 2020. It will our third battery storage pilot project in Iowa.

---

### **Type of engagement**

Collaboration & innovation

### **Details of engagement**

Run a campaign to encourage innovation to reduce climate change impacts

### **% of customers by number**

0.03

### **% of customer - related Scope 3 emissions as reported in C6.5**

0

**Please explain the rationale for selecting this group of customers and scope of engagement**

We are one of the first utilities in the U.S. to test the Sense® energy monitoring technology in homes. This simple phone app shows customers when appliances, lights and devices in their house turn on and off and how much energy they use. Our company initially rolled out this innovative technology to 100 select Wisconsin customers in 2018 based on energy use criteria maximizing pilot study results. We've enrolled 200 customers since 2018 and plan to install another 100 monitors this summer.

A Sense Whole Home Monitor installs easily on a customer's electrical panel. It then goes to work, identifying patterns in energy use so they can be more efficient, informed and secure. It's the most accurate tool to separate electricity end-uses into component parts for customers. (Also known as disaggregation, such as knowing how much energy your freezer uses.) The Sense monitor's technology identifies individual devices so customers can track what's on and off and how much energy each one uses.

**Impact of engagement, including measures of success**

Information from the Sense® energy monitoring technology is delivered to a mobile app, which translates usage into cost. Results show that residential electric customers could reduce their overall use by up to 9% by taking a thorough inventory of everything that's plugged in and selectively shutting down unused, always-on devices. This could save customers up to \$90 per household per year, or nearly one month's typical electricity bill. These energy savings also translate into less electric demand from our utilities and reduced emissions.

Our customers can access their energy-use information in real time. Those enrolled in the pilot have given us access to their data. The data includes:

- Which devices customers are using
- When they are using them
- How efficient the devices are
- Device-specific demand loads as well as energy loads
- What changes customers make when they have real-time, device-specific information in an app

With this information, we can make more informed decisions, such as:

- Provide more detailed and accurate forecasts of energy and demand
- Get guidance for advanced demand response program design
- Make communications to customers specific and accurate by device and time period
- Set specific device targets for reducing demand with "time of use" programs
- Provide guidance on energy efficiency incentive programs by device
- Quantify gaps between existing and baseline efficiency of major devices

Measures of success include technology feasibility, customer and regulator feedback. This has been great for our customers, and we've also received favorable comments from our regulators and the Focus on Energy Program Administrator. The clear benefits

to having a Sense device are why 100 rural residential customers quickly signed up when we rolled out a pilot in 2018. Our customer satisfaction scores went up among those in the pilot, with 57% saying that their opinion of Alliant Energy had improved. We'll learn from customer feedback and continue to assess the pilot results working with our regulators and the Focus on Energy program (this is Wisconsin's state-wide mandated energy efficiency program).

## C12.1d

### (C12.1d) Give details of your climate-related engagement strategy with other partners in the value chain.

Alliant Energy continues to interact more broadly with communities in our Iowa and Wisconsin service areas that are developing plans to address climate change at the local levels. In 2019, our company participated with the Wisconsin Dane County Office of Energy and Climate Change in their effort to issue the county's Climate Action Plan (CAP). Our company participated on the Dane County Climate Change Council with other local businesses, municipalities and other stakeholders to develop county-wide strategies to address climate change impacts. In addition, we participated on numerous working groups addressing renewable energy, energy efficiency, transportation, agricultural and land impacts to develop recommendations to include in the CAP. This was the first county in the State of Wisconsin to issue a county-wide climate action plan. Our company's Clean Energy Vision will further support achieving these local efforts as we implement our strategic business plans to achieve our carbon dioxide (CO<sub>2</sub>) reduction goals. We will continue to engage on further evaluation and implementation of the specific recommendations in the plan to reduce greenhouse gas emissions.

The final CAP was issued publicly in April 2020 and is available at: <https://daneclimateaction.org/climate-action-plan>

## C12.3

### (C12.3) Do you engage in activities that could either directly or indirectly influence public policy on climate-related issues through any of the following?

- Direct engagement with policy makers
- Trade associations
- Funding research organizations
- Other

## C12.3a

### (C12.3a) On what issues have you been engaging directly with policy makers?

Focus of legislation	Corporate position	Details of engagement	Proposed legislative solution
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<p>Clean energy generation</p>	<p>Support with minor exceptions</p>	<p>Strategic legislative and regulatory alignment is crucial to our ability to deliver the energy solutions and exceptional service that our customers and communities count on in a rapidly evolving energy industry. Alliant Energy advocates at the federal, state and local levels for policies that enable our company to provide reliable, affordable and clean energy to our customers and further the growth of our communities.</p> <p>Advocacy engagement occurs through education as well as various forms of communication with regulators, policymakers and stakeholders. This engagement occurs both at the federal level as well as the state level.</p> <p>Our advocacy and political activities are governed by our Political Engagement Guidelines. The Nominating and Governance Committee of the Board of Directors provides oversight and regularly reviews our company's participation in the political process. We comply with all laws, including those surrounding disclosure, lobbying activities, and political contributions or expenditures.</p>	<p>Alliant Energy supports federal and state policy initiatives to increase the amount of renewable energy being implemented nationally and in our service areas.</p> <p>Alliant Energy's positioning on individual legislation is determined on a case-by-case basis depending on what bills are being proposed. In general, our company supports reasonable approaches that will not adversely impact any individual customers or businesses while balancing affordability and the needs of all of our customers.</p>
<p>Energy efficiency</p>	<p>Support with minor exceptions</p>	<p>Strategic legislative and regulatory alignment is crucial to our ability to deliver the energy solutions and exceptional service that our customers and communities count on in a rapidly evolving energy industry. Alliant Energy advocates at the federal, state and local levels for policies that enable our company to provide reliable,</p>	<p>Alliant Energy supports federal and state policy initiatives to improve the energy efficiency of the U.S. economy.</p> <p>Alliant Energy's positioning on individual legislation is determined on a case-by-case basis depending on what bills are being proposed. In</p>

		<p>affordable and clean energy to our customers and further the growth of our communities.</p> <p>Advocacy engagement occurs through education as well as various forms of communication with regulators, policymakers and stakeholders. This engagement occurs both at the federal level as well as the state level.</p> <p>Our advocacy and political activities are governed by our Political Engagement Guidelines. The Nominating and Governance Committee of the Board of Directors provides oversight and regularly reviews our company's participation in the political process. We comply with all laws, including those surrounding disclosure, lobbying activities, and political contributions or expenditures.</p>	<p>general, our company supports reasonable approaches that will not adversely impact any individual customers or businesses while balancing affordability and the needs of all of our customers.</p>
Other, please specify Grid infrastructure modernization	Support with minor exceptions	<p>Strategic legislative and regulatory alignment is crucial to our ability to deliver the energy solutions and exceptional service that our customers and communities count on in a rapidly evolving energy industry. Alliant Energy advocates at the federal, state and local levels for policies that enable our company to provide reliable, affordable and clean energy to our customers and further the growth of our communities.</p> <p>Advocacy engagement occurs through education as well as various forms of communication with regulators, policymakers and stakeholders. This engagement occurs both at the federal level as</p>	<p>Alliant Energy supports federal and state policy initiatives to modernize electric grid infrastructure regionally and in our service areas.</p> <p>Alliant Energy's positioning on individual legislation is determined on a case-by-case basis depending on what bills are being proposed. In general, our company supports reasonable approaches that will not adversely impact any individual customers or businesses while balancing affordability and the needs of all of our customers.</p>

		<p>well as the state level.</p> <p>Our advocacy and political activities are governed by our Political Engagement Guidelines. The Nominating and Governance Committee of the Board of Directors provides oversight and regularly reviews our company's participation in the political process. We comply with all laws, including those surrounding disclosure, lobbying activities, and political contributions or expenditures.</p>	
<p>Other, please specify Electrification</p>	<p>Support with minor exceptions</p>	<p>Strategic legislative and regulatory alignment is crucial to our ability to deliver the energy solutions and exceptional service that our customers and communities count on in a rapidly evolving energy industry. Alliant Energy advocates at the federal, state and local levels for policies that enable our company to provide reliable, affordable and clean energy to our customers and further the growth of our communities.</p> <p>Advocacy engagement occurs through education as well as various forms of communication with regulators, policymakers and stakeholders. This engagement occurs both at the federal level as well as the state level.</p> <p>Our advocacy and political activities are governed by our Political Engagement Guidelines. The Nominating and Governance Committee of the Board of Directors provides oversight and regularly reviews our company's participation in the political</p>	<p>Alliant Energy supports federal and state policy initiatives to increase the amount of electrification being implemented regionally and in our service areas.</p> <p>Alliant Energy's positioning on individual legislation is determined on a case-by-case basis depending on what bills are being proposed. In general, our company supports reasonable approaches that will not adversely impact any individual customers or businesses while balancing affordability and the needs of all of our customers.</p>

		process. We comply with all laws, including those surrounding disclosure, lobbying activities, and political contributions or expenditures.	
Other, please specify Electric Vehicles	Support with minor exceptions	<p>Strategic legislative and regulatory alignment is crucial to our ability to deliver the energy solutions and exceptional service that our customers and communities count on in a rapidly evolving energy industry. Alliant Energy advocates at the federal, state and local levels for policies that enable our company to provide reliable, affordable and clean energy to our customers and further the growth of our communities.</p> <p>Advocacy engagement occurs through education as well as various forms of communication with regulators, policymakers and stakeholders. This engagement occurs both at the federal level as well as the state level.</p> <p>Our advocacy and political activities are governed by our Political Engagement Guidelines. The Nominating and Governance Committee of the Board of Directors provides oversight and regularly reviews our company's participation in the political process. We comply with all laws, including those surrounding disclosure, lobbying activities, and political contributions or expenditures.</p>	<p>Alliant Energy supports federal and state policy initiatives to increase the amount of electric vehicles (EVs) being implemented regionally and in our service areas.</p> <p>Alliant Energy's positioning on individual legislation is determined on a case-by-case basis depending on what bills are being proposed. In general, our company supports reasonable approaches that will not adversely impact any individual customers or businesses while balancing affordability and the needs of all of our customers.</p>

### C12.3b

**(C12.3b) Are you on the board of any trade associations or do you provide funding beyond membership?**

Yes

## C12.3c

**(C12.3c) Enter the details of those trade associations that are likely to take a position on climate change legislation.**

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### Trade association

Edison Electric Institute

### Is your position on climate change consistent with theirs?

Consistent

### Please explain the trade association's position

Global climate change presents one of the biggest energy and environmental policy challenges this country has ever faced. EEI member companies are committed to addressing the challenge of climate change and have undertaken a wide range of initiatives over the last 30 years to reduce, avoid or sequester GHG emissions. Policies to address climate change should seek to minimize impacts on consumers and avoid harm to U.S. industry and the economy. As of the end of 2019, electric power sector CO2 emissions had declined 33 percent from 2005 levels, driven in part by low natural gas prices, increased deployment of renewable generation and customer demands.

From: <https://www.eei.org/issuesandpolicy/environment/climate/Pages/default.aspx>

EEI's member companies are leading a clean energy transformation. We are united in our commitment to get the energy we provide as clean as we can, as fast as we can, while keeping customer reliability front and center as always. Overall, emissions from the electric power sector are at their lowest level since 1987. And, collectively, EEI's member companies are on a path to reduce carbon emissions at least 80 percent by 2050, compared with peak levels in 2005.

EEI's member companies are committed to continuing to reduce CO2 in our sector and helping other sectors transition to clean, efficient electric energy. And this is just the start. With investments in new technologies and with the right policies in place, we can do even more to build a cleaner, stronger economy together.

Together, we are delivering America's energy future.

From: <https://www.eei.org/issuesandpolicy/Pages/CleanEnergy.aspx>

### How have you influenced, or are you attempting to influence their position?

We attend meetings and discussions of the Edison Electric Institute regarding policy matters, including climate change, and provide input to ensure that the company's perspectives are considered.

## C12.3d

**(C12.3d) Do you publicly disclose a list of all research organizations that you fund?**

Yes

## C12.3e

**(C12.3e) Provide details of the other engagement activities that you undertake.**

We have participated in meetings or held discussions that included representatives of the U.S. Environmental Protection Agency, Wisconsin Department of Natural Resources, Public Service Commission of Wisconsin, Iowa Department of Natural Resources, Iowa Utilities Board, other electric utilities, and various environmental groups to discuss issues related to the development of state plans due by 2022 for the Affordable Clean Energy (ACE) rule addressing heat rate improvements and CO2 limits from existing coal-fired electric generating units.

## C12.3f

**(C12.3f) What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?**

Our advocacy and political activities are governed by our Political Engagement Guidelines. The Nominating and Governance Committee of the Board of Directors provides oversight and regularly reviews our company's participation in the political process. We comply with all laws, including those surrounding disclosure, lobbying activities, and political contributions or expenditures.

## C12.4

**(C12.4) Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).**

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### Publication

In mainstream reports, incorporating the TCFD recommendations

### Status

Complete

### Attach the document

 Alliant-Energy-Corp-ESG-Performance-Summary-and-Data-v07-22-2020 (CDP).pdf

### Page/Section reference

Pages 8-30 of the PDF

### Content elements

- Governance
- Strategy
- Risks & opportunities
- Emissions figures
- Emission targets
- Other metrics

### Comment

Alliant Energy's public Corporate Responsibility Report is fully available online including attachments that report our performance on climate change according to the TCFD framework at: <http://www.alliantenergy.com/responsibility>

Attached to this CDP submission is the downloadable performance documentation.

## C15. Signoff

### C-FI

**(C-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.**

### C15.1

**(C15.1) Provide details for the person that has signed off (approved) your CDP climate change response.**

	Job title	Corresponding job category
Row 1		

## Submit your response

**In which language are you submitting your response?**

English

**Please confirm below**

I have read and accept the applicable Terms

