

Projet Énergie Saguenay  
Agence d'évaluation d'impact du Canada  
901-1550, avenue d'Estimauville  
Québec (Québec) G1J 0C1

Le 22 octobre 2021

A l'attention de Mr Terence Hubbard, Président intérimaire de l'Agence d'évaluation d'impact du Canada

Mr Hubbard,

Merci de bien vouloir trouver en annexe de ce document des lettres de support d'acteurs de l'industrie de l'énergie pour le projet Energie Saguenay de GNL Québec.

Nous apprécions la prise en compte de ces éléments par l'AEIC.

Bien cordialement,



Tony Le Verger  
Président, GNL Québec inc



October 21, 2021

Énergie Saguenay Project  
Impact Assessment Agency of Canada  
901-1550 d'Estimauville Avenue  
Québec, Quebec G1J 0C1

Dear Mr. Terence Hubbard:

Please accept the Siemens Energy comments on GNL Québec's Énergie Saguenay Project.

Siemens Energy is one of the world's leading energy technology companies. The company works with its customers and partners on energy systems for the future, thus supporting the transition to a more sustainable world. With its portfolio of products, solutions and services, Siemens Energy covers almost the entire energy value chain – from power generation and transmission to storage. The portfolio includes conventional and renewable energy technology, such as gas and steam turbines, hybrid power plants operated with hydrogen, and power generators and transformers. More than 50 percent of the portfolio has already been decarbonized. A majority stake in the listed company Siemens Gamesa Renewable Energy makes Siemens Energy a global market leader for renewable energies. An estimated one-sixth of the electricity generated worldwide is based on technologies from Siemens Energy. Siemens Energy employs more than 90,000 people worldwide in more than 90 countries and generated revenue of around €27.5 billion in fiscal year 2020. In Canada, there are almost 1500 employees.

Governments around the world are prioritizing decarbonization and accelerating the energy transition to combat global climate change. Symbio Infrastructure Limited Partnership ("Symbio"), GNL Québec's parent company, and Siemens Energy are aligned in their environmental stewardship and commitments to develop innovative infrastructure that helps meet these goals. In addition, Siemens Energy and Symbio envision the alliance aligning with the principles included in the March 2021 Energy Partnership between Germany and Canada to advance their respective net-zero aspirations.

Symbio and Siemens Energy have an agreement whereby Siemens Energy will provide engineering services, comprehensive lifecycle equipment and technology solutions, and further carbon emission footprint reduction solutions for GNL Québec's carbon-neutral Énergie Saguenay liquefied natural gas ("LNG") project in Quebec, as well as Symbio's subsidiary Gazoduc's carbon-neutral natural gas transmission line project between Ontario and Quebec.

Siemens Energy Canada Limited  
Managing Director: Arne Wohlschlegel

1577 North Service Road East  
Oakville, Ontario  
L6H 0H6 / Canada

Tel.: 905-465-8000  
Fax: 905-465-8154  
[www.siemens-energy.ca](http://www.siemens-energy.ca)

Under the agreement, Siemens Energy will provide its portfolio of greenest solutions for rotating equipment, electrical, and digital infrastructure. Furthermore, the parties will work together to explore green hydrogen development opportunities as a new potential investment initiative to be considered by Symbio.

Tim Holt, member of the Executive Board of Siemens Energy, has previously noted: “We’re proud to support Symbio’s carbon-neutral Canadian LNG project powered by hydroelectricity, and Canada’s first carbon-neutral natural gas transmission line, while also integrating cutting-edge Siemens Energy solutions and technology to realize one of the world’s lowest carbon intensity LNG value chains. Siemens Energy is also looking forward to furthering our development of a carbon-free hydrogen economy by collaborating with Symbio and advancing Germany’s collaboration with Canada.

**THE TECHNOLOGIES:** A core part of the Siemens Energy business is providing the project technology and products that support LNG production, including a range of products that provide for the complete electrification of the LNG production process. These technologies include, for example, electric drives that assist in the process of liquifying the gas. **Given a “green” source of electricity, these products, as well as other products in the supply chain, can deliver LNG to local and domestic markets with near zero carbon emissions, prior to a carbon capture process.**

**THE MARKETS:** Siemens Energy has been, and is currently, involved in LNG projects around the world, principally in regions of the world that have surplus natural gas for export. Canada is entering the LNG export business with the LNG Canada project currently under construction on the west coast. LNG has been in use in Canada and is used, for example, to provide clean power for industrial applications in Quebec.

The global transition toward a lower-carbon energy system is accelerating. **LNG projects like Énergie Saguenay will play a key role in driving towards a more sustainable future; however, the industry must begin to look at how it can decarbonize the natural gas value chain.** A recent forecast cited in the Economist concludes that, even with the proposed projects in the pipeline, and assuming they all proceed, there will be a projected shortfall of LNG supply. As a partner with Symbio, Siemens Energy have offered these advanced technologies to support the proposed project, which, combined with clean electricity from hydropower, would virtually guarantee that **this facility would be the lowest-carbon intensity LNG production facility in the world.**

**THE ROLE OF NATURAL GAS IN THE ENERGY ECONOMY:**

**CARBON EMISSIONS:** Natural gas plays an important role in reducing greenhouse gas emissions. **As a source of power to generate electricity, it generates considerably less carbon dioxide than other fossil fuels, most especially coal. It can also serve to reduce carbon emissions in certain applications that cannot be readily electrified, including in the transportation, building, and process industries.** Finally, with the emerging requirement to mix hydrogen with natural gas, this fuel, and related transportation and distribution infrastructure (see below) promises to provide the foundation for a transition to a net-

zero energy economy.

**TRANSPORTATION AND DISTRIBUTION INFRASTRUCTURE:** There is massive infrastructure in place in most parts of the world to transport natural gas safely and efficiently. **This makes natural gas a fuel of choice in most major markets around the world.** As noted above, the gradual introduction of hydrogen in natural gas distribution systems implies that this infrastructure will play an important role for decades to come in the transition to a net-zero economy.

**REGIONAL ENERGY OPTIONS AND FUTURE ENERGY SYSTEMS:** The energy futures of regions around the world will have different options to reduce carbon emissions. The mix of energy sources will vary from region to region and depend on cost and availability of these various sources over time. There is no one solution that fits every region, and every form of energy has its advantages and disadvantages. The world requires a mix of energy sources.

We believe that many regions of the world that will be challenged in meeting carbon reduction targets will find natural gas to be a crucial part of their energy systems and energy economies going forward. Virtually all credible energy forecasters see a significant and sustainable role for natural gas in most future energy systems over the mid-term. This is especially true when one considers the option of blending green hydrogen with natural gas.

Regions of the world that have surplus natural gas might feel they have an obligation to assist other countries in meeting their carbon reduction targets by making available this form of energy, especially those countries or regions whose only option would be to use energy sources that would emit even more carbon dioxide, be even more unreliable, or unaffordable.

**SECURITY OF ENERGY SUPPLY CONSIDERATIONS:** In addition to emissions and economy considerations, there is also the issue of security of supply. Canada's energy production projects have historically been recognized among the environmentally conscious and the most responsible in the world, and Canada is a global leader in the fight against climate change and green-house-gas emissions. Canada's recent commitment to reduce emissions of methane from the oil and gas sector by 75% below 2012 levels by 2030 is second to none. **We believe that Canada, and this project, are uniquely positioned to be credible and reliable sources of energy for the planet, allowing for the diversification of sources of supply with clean energy.**

Thank you for the opportunity to comment on this project.

Best Regards,



Arne Wohlschlegel  
Managing Director

Siemens Energy Canada Limited  
Managing Director: Arne Wohlschlegel

1577 North Service Road East  
Oakville, Ontario  
L6H 0H6 / Canada

Tel.: 905-465-8000  
Fax: 905-465-8154  
[www.siemens-energy.ca](http://www.siemens-energy.ca)

Énergie Saguenay Project  
Impact Assessment Agency of Canada  
901-1550 d'Estimauville Avenue  
Québec, Quebec G1J 0C1

2021.10.20

Dear Mr. Terence Hubbard,

Ingeniería y Comercialización del Gas, S. A (“Incogas”) want to stress the importance of GNL Québec’s Energie Saguenay project for the global clean-energy supply chain. This project will allow for European consumers to increase their energy supply independence and to diminish their reliance on more pollutive and expensive fuels originating from other countries that have less stringent environmental standards than Canada.

Incogas respect that Canada’s robust environmental rules and regulatory processes ensure that all energy projects in Canada are constructed using the highest environmental standards and industry-wide best practices, and we welcome the Canadian Government’s commitment to reduce upstream methane emissions by 75% by the end of this decade (<https://www.canada.ca/en/environment-climate-change/news/2021/10/canada-confirms-its-support-for-the-global-methane-pledge-and-announces-ambitious-domestic-actions-to-slash-methane-emissions.html>). Canada’s commitment to producing cleaner natural gas makes GNL Québec’s Energie Saguenay project not only beneficial for the energy transition, but also makes it invaluable for the global environment that we leave behind for future generations.

GNL Québec will be the first LNG exporter in the world to be powered entirely by local hydroelectricity. This will not only contribute to its ability to be carbon-neutral, but also assists in lowering operating expenses, which reduces costs for LNG buyers like Incogas.

Énergie Saguenay has invested significantly over the past several years to advance maritime research for the environmentally responsible transportation of its LNG exports. The project’s decision to require LNG ships that include new noise-reduction technologies to minimize impacts on local Beluga whales is an industry first. We are not aware of any other commercial vessel on the Saguenay River, St. Lawrence Seaway, or Atlantic Ocean that achieved such a standard, and this commitment is another clear example of GNL Québec’s innovative spirit and environmental stewardship.

Incogas sees GNL Québec’s Energie Saguenay as one of the most essential energy projects for Canada and its allies for many reasons. Its location and environmental advantages make it an attractive supplier of cost-competitive LNG to Western European countries who need natural gas to eliminate coal, complement intermittent renewables, and contribute to the global energy transition. Recent years have proven that the volatility of supply and output of fuels can potentially cause widespread instability and economic disruption – the effects of which are being felt in real-time as European natural gas prices have reached historic highs in recent weeks – and Energie Saguenay can help mitigate these risks for European citizens and companies alike.

Incogas believe that GNL Québec will provide the cleanest LNG available in the global market, and we applaud this innovative and ambitious project. Incogas look forward to continuing its close partnerships with Canada’s innovative clean energy providers, including Énergie Saguenay.

With utmost regards,

Tomás Borchert / CEO



Brookfield Place, 181 Bay Street  
Suite 3200  
Toronto, ON M5J 2T3  
CANADA

Telephone ++1 416 848 3500  
Internet www.macquarie.com

October 21, 2021

Énergie Saguenay Project  
Impact Assessment Agency of Canada  
901-1550 d'Estimauville Avenue  
Québec City, Québec G1J 0C1



Dear Mr. Terence Hubbard:

Macquarie Group (“**Macquarie**”) is aligning its activities with the global goal of net-zero emissions by 2050. Macquarie will accomplish this primarily through its environmental, social, and governance investments. In addition, Macquarie Capital Markets Canada Ltd. (“**Macquarie Capital**”), the Canadian advisory, capital markets and principal investment arm of Macquarie, along with certain of its affiliates, have worked with governments and clients in industry to drive the energy transition and advance practical solutions to climate challenges. Through our business relationships, Macquarie has built market leading capabilities by investing directly into climate mitigation and adaptation infrastructure, and by supporting our clients and portfolio companies to decarbonize their activities across the globe.

Macquarie Capital strongly believes that GNL Québec’s Énergie Saguenay liquefied natural gas (“**LNG**”) project would be beneficial for the global energy transition as it will help the planet reduce its overall greenhouse gas (“**GHG**”) emissions. Energy supply-demand dynamics in Europe and Asia are highlighting how supply shortages can result in record-high natural gas prices, which increase coal consumption. North American LNG is a tool that can reduce energy prices and help displace coal consumption.

With global demand for lower-carbon energy sources rising, along with interest in financing related energy platforms, Macquarie Capital would like to reiterate its support for environmentally focused projects such as Énergie Saguenay. GNL Québec’s carbon-neutral LNG project will represent the first large-scale LNG plant in the world that is supplied by hydroelectricity from a pre-existing local network. This will lead to a substantially smaller carbon footprint from the company as it seeks to uphold its pledge to reduce GHG emissions to become net-zero throughout the lifespan of the project.

With a significant portion of the world's natural gas located in countries with minimal environmental regulations, Macquarie recognizes the steps taken by GNL Québec to develop a state-of-the-art net-zero project in Canada which would produce some of the lowest GHG-emitting natural gas in the world. By leveraging renewable hydropower, it is evident that Énergie Saguenay would be setting a new benchmark in the LNG industry.

Very truly yours,

*Macquarie Capital Markets Canada Ltd.*

**Macquarie Capital Markets Canada Ltd.**



October 20, 2021

Alliant Insurance Services, Inc.  
5444 Westheimer Rd, 9<sup>th</sup> Floor  
Houston, TX 77056

P (832) 485-4000  
F (832) 485-4001  
CA License No. 0C36861  
[alliant.com](http://alliant.com)

Énergie Saguenay Project  
Impact Assessment Agency of Canada  
901-1550 d'Estimauville Avenue  
Québec, Quebec G1J 0C1

Dear Mr. Terence Hubbard:

Alliant Insurance Services is a firm believer in advocating for projects and facilities that benefit the energy supply chain. To that end, as one of Alliant's senior energy brokers, I fully support GNL Québec's Énergie Saguenay liquefied natural gas ("LNG") project. This important project is engineered in a manner to operate with a neutral carbon footprint and the first plant of its size to be supplied with hydro electric power, which means their commitment to environmental, social, and governance takes extreme priority. The economic and social benefits to both the region and North America are substantial. These benefits include the generation of 6,000 direct and indirect jobs, including 4,000 direct jobs during peak periods on the site, as well as 1,100 direct and indirect jobs during peak periods. Once the project goes into operation it is expected that approximately 300 high quality, well-paid jobs will be distributed between the site and the administrative offices in Saguenay.

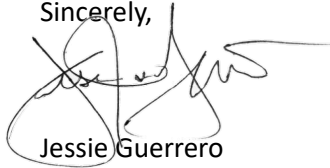
From a global perspective, LNG is more environmentally sustainable than any other fossil fuel. Burning natural gas produces dramatically less CO<sub>2</sub>, NO<sub>x</sub>, and SO<sub>2</sub> and almost no ash, dust, smoke, or particulate matter than other fossil fuels. When exposed to the atmosphere it disappears quickly, leaving no trace in soil or water. It provides an excellent alternative in order to reduce greenhouse gas emissions and help tackle climate change, while being a significant and reliable source of energy.

The long-term outlook for LNG is brighter than that of other fossil fuels because of its comparatively lower costs and lower emissions from production and combustion. Leaders, like the GNL Québec's Énergie Saguenay LNG project, are sure to reap benefits and efficiencies including, economic factors, supply-chain



optimization, downstream market development and decarbonization, which will benefit not only Canada, but the global energy market as well. This exciting project has my organization's full support.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jessie Guerrero', with a large, stylized flourish extending to the right.

Jessie Guerrero

Senior Vice President

Alliant Insurance Services, Inc.

**Main Office**

---

1200, 308 – 4th Avenue SW  
Calgary, Alberta, Canada  
T2P 0H7  
Tel: 403-503-8600  
Fax: 403-509-6427  
[www.arcresources.com](http://www.arcresources.com)

October 21, 2021

Énergie Saguenay Project  
Impact Assessment Agency of Canada  
901-1550 d'Estimauville Avenue  
Québec, Quebec G1J 0C1

Dear Mr. Terence Hubbard,

ARC Resources is one of Canada's largest energy companies and a global leader in responsible development. Our success of the past 25 years has been built upon our high-quality asset base and unwavering commitment to operational excellence and risk management across our business. As Canada's third-largest natural gas producer, we believe natural gas will play a pivotal role in the transition to a low-carbon economy.

Responsible development of natural gas will support Canada's ambitions of net zero while balancing accessibility, affordability, and reliability of our energy system. With high environmental standards, Canada is uniquely positioned to develop energy products at a lower carbon intensity that can easily be distributed to the global market. The current energy crisis in Europe and Asia is proof that the world needs clean energy sources like Canadian LNG.

Projects like Énergie Saguenay offer a made-in-Canada solution that can bridge the East and the West and increase access to global markets, create economic benefit for Québec, and displace carbon intense energy sources currently being consumed on a global scale. By leveraging existing transportation infrastructure, the proposed natural gas liquefaction complex and export terminal will add critically needed production capacity to the region.

European customers are currently looking at diversifying their natural gas supply and protecting their energy supply chains, and GNL Québec, together with responsible producers like ARC, is one of the answers to this global challenge. Without the availability of low-emissions natural gas, consumers will rely on sources with higher environmental footprints that contribute to our collective climate problem. The Énergie Saguenay project offers immeasurable opportunity to advance and enhance Canada's competitiveness on a global scale, while playing a role in addressing the world's environmental aspirations.

Please accept our letter of support for the Énergie Saguenay project.

Sincerely,



Kris Bibby  
Chief Financial Officer  
ARC Resources



October 20, 2021

Énergie Saguenay Project  
Impact Assessment Agency of Canada  
901-1550 d'Estimauville Avenue  
Québec, Quebec G1J 0C1

Dear Mr. Terence Hubbard:

As an international energy producer, Vermilion Energy Inc. (Vermilion) supports GNL Québec's Énergie Saguenay project and its critical role in Canada and Québec's energy transition to net zero greenhouse gas (GHG) emissions. The energy crises being experienced in many areas of the world have highlighted the need for a planned and deliberate approach to a low-carbon energy and economic system. Projects such as the GNL project should be included in this approach as an effective and responsible bridge between current and new systems.

Our perspective as a Canadian-headquartered company that seeks to create value through the acquisition, exploration, development, and optimization of producing assets in North America, Europe, and Australia allows us a global outlook on energy. We are clear that our purpose is to responsibly produce essential energy while delivering long-term value to our stakeholders – including partners such as GNL and their government and community stakeholders. We therefore prioritize conducting our activities in a manner that protects the health and safety of our people and our communities, and the health of the environments in which we work.

We see this in GNL's approach as well, and we are proud to contribute to their commitment to emissions reduction and responsible energy production, including our aspirational target of net zero emissions in our own operations, including Scope 1 and Scope 2 emissions, by 2050. As a first step, we have targeted a reduction in Scope 1 emission intensity of 15 to 20% by 2025. This is critical to our goal to responsibly produce oil and natural gas for as long as they are required to support the world's need for accessible and affordable energy, while exploring options for non-fossil fuel energy to support the energy transition.

We are confident that GNL Québec will uphold similar high standards, making it a flagship for other LNG facilities and projects across the globe. If we truly wish to support a reduction in global warming potential, we must prioritize the countries and companies that are demonstrating environmental, social and community best practices in producing low-emissions fossil fuels. Énergie Saguenay's location is ideally positioned to deliver clean and cost-competitive Canadian LNG to Europe, Asia, the Middle East, and South America, while GNL Québec is similarly positioned to deliver it to the highest performance standards.

Thank you for considering the potential for this important project to contribute to a successful energy transition, here at home and around the world.

Terry Hergott

Vice President, Marketing