

MEDIA RELEASE
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JLR Announces Unprecedented Expansion of Sustainable Energy Services



OTTAWA—In a ground-breaking move toward fostering sustainable solutions, J. L. Richards and Associates Limited (JLR) has added both a new market and new discipline to its portfolio. The engineering, architecture, planning, and project management firm is expanding its core services for the first time in almost 30 years to include specialized innovative energy services and energy systems engineering.

The five members of the new Innovative Energy Group join JLR from Leidos Canada, where the team was first developed in the early 2000s. The four engineers and one technologist that make up the group boast 70 years of combined experience in the field of renewable energy. As experts in solar energy, solar water systems, and energy systems modelling, Larry McClung, Joan Haysom, Jarrett Carriere, Jill Tymchak, and Nathan Gauci diversify JLR's services and offer clients new avenues to customize their energy systems solutions.

"Smart and renewable energy systems have matured, and can now be economically integrated into a wide range of building and infrastructure projects," explains Haysom. "We are very excited to join the JLR team and to bring solid and sustainable energy solutions into architecture, planning, and engineering services, and to a diverse set of clients."

The core strength of this new, Ottawa-based team is the fact that every member has a depth and breadth of experience in energy technologies. With their proven skills in commercial project development, research and development, manufacturing, pilot program execution, investor portfolio creation, and consulting, each member of the Innovative Energy Group is capable of engaging with energy systems of all sizes. Furthermore, the team is well practiced in not only effectively modelling energy systems, but also in evaluating the performance of those systems once they are implemented. Finally, they have a detailed understanding of the feasibility of many developing innovative energy technologies in practical applications, such as combined heat and power, biomass and biogas, district heating and cooling systems, air source and ground source heat pumps, energy efficient lighting, and small hydro projects.

The group's experience in solar energy is unmatched in Canada. Working primarily as technical advisors to investors, they have been involved in almost half of the 2.4 gigawatt (GW) photovoltaic projects in Ontario, from the largest utility-scale projects to hundreds of residential systems, as well many GW's of projects outside of Canada.

Recently, the group was pleased to conduct a series of interconnected studies on behalf of the City of Ottawa regarding energy generation and usage in the region. The members of JLR's Innovative Energy Group initiated an exhaustive baseline examination of all energy generated in Ottawa and all energy imported into the area, as well as how that energy flows to end users. With this data in tow, the group was then able to examine energy pathways to a more efficient and sustainably powered city over the next 30 years. These pathways were characterized by increased local energy generation, and reductions in the use of fossil fuels for heating. The work was comprehensive in examining low, medium, and high uptake scenarios for innovative technologies such as solar, wind, water power, biogas, district energy systems, and air source heat pumps. The group's work found that the City of Ottawa could increase local generation of electricity from 23% to 61%, while adopting a low carbon emission approach and reducing natural gas usage by 64%.

The group also has experience creating large-scale innovative energy solutions both inside and outside the Ottawa area. Again working as a cohesive team, they coordinated the design and building of photovoltaic and solar water systems on the roofs of social housing buildings in Toronto, the Leeds and Grenville area, and Ottawa. In addition, they led the development and monitoring of the state-of-the-art Drake Landing Solar Community, a 52-home neighbourhood in Okotoks, Alberta that derives its winter heating from solar heat generated during the summer, which is stored underground until needed during the colder months. In the winter of 2015/2016, the project set a

world record for solar generation when it derived more than 99.5% of its heating needs from solar energy. The community has now enjoyed over 10 years of uninterrupted operation.

Since joining JLR, the team has already been busy with a diverse number of new projects, including utility-scale solar development in Quebec, energy planning for a net-zero energy community housing project, solar deployment strategy for a national real estate portfolio holder, and business case evaluation of solar and storage for large electricity users.

JLR is overjoyed to have the opportunity to welcome a team with such diverse experience and world-class sustainable energy accolades. Effective immediately, the Innovative Energy Group offers JLR clients access to an extensive variety of new service areas.

“We are pleased to be able to continue to operate as a cohesive group, and are excited to have this opportunity to bring our expertise to JLR’s established clientele,” says McClung. “By providing an additional focus on energy and on reductions in greenhouse gas emissions, we will enable JLR’s client base to reduce their ongoing operating costs and take full advantage of sustainable building and infrastructure options.”

Individuals who are interested in learning more about JLR’s new Energy Systems Engineering discipline are asked to contact Larry McClung at 613-728-3571, or lmcclung@jlrichards.ca. Those interested in learning about JLR’s new Innovative Energy Market are asked to contact Joan Haysom at 613-728-3571, or jhaysom@jlrichards.ca.

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About JLR

A Gold Standard Canadian Best Managed Company, JLR provides high-quality, integrated engineering, architecture, planning, and project management services to enterprises in the private and public sectors. With seven offices across Ontario, JLR’s professional services support a wide variety of land development, infrastructure, and building projects, placing them at the cutting edge of both value and service delivery. For information on how JLR can help with your next project, please visit www.jlrichards.ca.

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For media inquiries:

Jaclyn Lytle
Promotional Writer
J.L. Richards & Associates Limited
705-495-7597, ext. 3231
jlytle@jlrichards.ca