## Expertise

### UTILITY SCALE DEVELOPMENT
- Feasibility and conceptual design
- Layout design
- Equipment selection and optimization
- Environmental and permitting services
- Noise modeling and traffic studies
- Geomatics
- Land development and permitting
- Geotechnical investigations

### ENGINEERING
- Transmission and distribution
- Electrical collector design
- Structural and pile design
- Civil and storm water
- SCADA design

### CONSTRUCTION AND ASSET MANAGEMENT
- SCADA implementation
- Construction monitoring
- Performance monitoring
- Operations planning

### INDEPENDENT ENGINEERING AND ADVISORY SERVICES
- Mergers and acquisitions
- Independent engineering for financing
- Technical review
- Operational assessment
- Economics and financial advisory services

### PROJECT ENGINEERING
- Project planning
- EPC bid support
- EPCM
- Owner’s engineering

### ROOFTOP SOLAR
- Feasibility and conceptual design
- Layout design
- Building structural assessment
- Economic evaluation
- Master planning
- Energy modeling, energy auditing, LEED® certification
- Commissioning

Right Page: Arnprior Solar Project is a 23.4 MW solar farm located near Arnprior, Ontario.
Solar power technologies are developing at an accelerated pace in the renewable energy industry, with competitive prices enabling solar power to gain momentum as a source of reliable, clean energy.

**FULL SUITE OF SERVICES FOR SOLAR POWER PROJECTS**

WSP has been at the forefront of the solar-energy evolution, by driving the advancement of R&D in Canada, challenging the status quo, and proposing innovative and forward-looking ideas to help our clients succeed. WSP offers a full suite of solar power services, covering everything from conceptual design to detailed engineering to advisory services.

**A STRATEGIC PARTNER**

WSP Power Canada has industry-recognized solar-power experts in its ranks who have designed projects for world-leading renewable energy developers. This team – composed of experienced and highly skilled engineers in civil, structural, electrical, geotechnical, mechanical and hydraulic engineering – will provide all the support needed for the success of your solar project.

Whether for a small-, mid- or large-scale solar-power project, WSP has the know-how and the resources to help. Some highlights of our recent solar-power experience include:

- Project scouting, development support, and layout design in Western Canada.
- Energy modeling advancements for bifacial modules and snow loss estimates.
- Detailed engineering for electrical collectors, protection systems and interconnection for large-scale facilities in Ontario and Alberta.
- Microgrid conceptual design and owner’s engineer services.
- Environmental surveys and permitting support.
- Geotechnical investigations and pile design optimization to mitigate frost heave risk.
- Acquisition support for large portfolios of solar assets.

By selecting WSP, you are opting for a strategic partner invested in the success of your solar power project.

**LOCALLY DEDICATED WITH INTERNATIONAL SCALE**

We provide our clients with personalized and local support across Canada, while leveraging our worldwide expertise to undertake the most complex solar projects. The client is at the core of everything we do and this shines through in the quality of our work, in our project agility, and in the relationships that we develop with our clients.
As one of the world's leading professional services firms, WSP™ provides technical expertise and strategic advice to clients in the Transportation & Infrastructure, Property & Buildings, Environment, Industry, Resources (including Mining and Oil & Gas) and Energy sectors, as well as offering project and program delivery and advisory services. Our experts include engineers, advisors, technicians, scientists, architects, planners, surveyors and environmental specialists, as well as other design, program and construction management professionals. With approximately 48,000 talented people in 550 offices across 40 countries — more than 8,000 in Canada and 9,500 in the U.S. — we are uniquely positioned to deliver successful and sustainable projects, wherever our clients need us.