

USE CASE

Altalis Fuels Global Renewable Energy Provider's Green Energy Expansion with Crucial Geospatial Data

ALTALIS, a leading supplier of geospatial data, supports a global renewable energy provider operating a substantial portfolio of wind and solar projects across North America and over a dozen other countries. As a major player in the wind energy sector, this company is committed to transforming the global energy landscape through green power generation. Their focus on wind farms and solar parks significantly contributes to reducing greenhouse gas emissions and providing clean, reliable electricity to millions.



CHALLENGES

Overcoming Land Acquisition and Regulatory Roadblocks

Renewable energy companies face a complex landscape when it comes to acquiring land rights, securing regulatory approvals, and ensuring environmental sustainability. Geospatial data plays a pivotal role in overcoming these hurdles, from initial land acquisition and permitting, to project engineering.

LAND ACQUISITION LEASES

Before breaking ground, these companies must secure leases for vast tracts of land suitable for wind farms or solar parks. Geospatial data, including **Title** information, **Cadastral** maps, and **LiDAR data**, is essential for identifying potential land constraints, accurately defining lease boundaries, and assessing site suitability.

REGULATORY PERMITTING

Obtaining the necessary permits is a multi-layered process, often involving approvals at various levels of government. In Alberta, for example, permits are required from municipal, provincial, and federal authorities. Geospatial data provides critical supporting information for environmental impact assessments, land use studies, and other regulatory requirements.

ENGINEERING STUDIES

Before construction begins, detailed engineering studies are conducted to evaluate potential environmental impacts. Geospatial data, particularly in hydrology studies, helps assess the topography of the site, model groundwater flow, and identify potential risks to water quality. This information is crucial for mitigating any negative environmental consequences and ensuring the long-term sustainability of renewable energy projects.

"The Altalis data sources on land really matter to us. They are really impactful and meaningful to both the permitting of the project, the construction—the whole deal."

—DEVELOPMENT PROJECT MANAGER,
RENEWABLE ENERGY COMPANY

Cadastral Mapping defines the location of survey plans registered with Alberta Land Titles.

Title Mapping defines the extent of ownership for each parcel, as indicated on the Certificates of Title.

SOLUTIONS

UNLOCKING RENEWABLE ENERGY POTENTIAL WITH ALTALIS' COMPREHENSIVE GEOSPATIAL DATA SOLUTIONS

COMPREHENSIVE GEOSPATIAL DATA

Altalis provided accurate and up-to-date **Title**, **Cadastral**, and high-resolution **LiDAR 7.5** and **LiDAR15** data, enabling efficient land acquisition, hydrological studies, and optimized site layouts for solar installations.

CENTRALIZED DATA PLATFORM

Altalis' online platform offered an intuitive interface, customizable data extraction, and an efficient purchasing process, streamlining data access and download for the company's various teams and stakeholders.

DEDICATED SUPPORT

Altalis offered expert assistance in data selection and platform navigation, ensuring a smooth and positive user experience for the company.



RESULTS

ACCELERATED PROJECT DEVELOPMENT

Altalis data accelerated land acquisition by quickly identifying suitable parcels and verifying ownership. Streamlining permitting processes and shortening project timelines.

SMARTER PLANNING

Accurate geospatial data, like high-resolution LiDAR, enabled optimized site selection leading to more efficient solar farm design and infrastructure placement.

EASIER COLLABORATION

The centralized data platform improved communication and data sharing between internal teams (like GIS and engineering) and external stakeholders (like permitting consultants), leading to better coordination and faster project execution.

COST SAVINGS

Reduced manual efforts in data gathering and processing, along with optimized planning, resulted in cost savings in areas like surveying and labor and avoided project delays.



ABOUT ALTALIS

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Established in 1998, we have been the **authoritative source of spatial data and imagery in Alberta for over 25 years**. We are the leading data management, maintenance, and distribution company in Alberta, and ensure the continued updating, re-engineering, storage, distribution, value-added redistribution, and general management of primary provincial mapping datasets. Our goal is to **make mapping products more available, accessible, accurate, and affordable**. We are your trusted source of spatial data.

Our state-of-the-art webstore, Altalis.com, is powered by AWS enabling reliable, fast and secure data deliveries. **Customers can explore, view, and acquire spatial data products both paid and open data with the click of a button**. We take pride in providing exceptional customer service and building long-term relationships with our clients. Our experienced customer service team is available to answer any questions you may have about finding the right data to meet your needs.