

Experts in Harnessing Renewable Energy

Air quality and renewable energy go hand in hand and ORTECH has experience in both.

Having served industry and government for over 50 years in the technology-based environmental science and engineering field of air quality, ORTECH has expanded through ORTECH Power to apply its high quality services in technical consulting, problem solving and evaluation to the renewable energy sector. Our staff has built and evaluated small hydro projects, developed wind farms and has access to risk capital that is needed to finance early stage projects. ORTECH Power is an adviser to banks, income trusts and specialized funds, all of whom need reliable advice on the technical issues of renewable energy. ORTECH Power is a meeting of the technical and the financial, experts in identifying, developing and operating economically viable renewable energy projects.

Wind Resource Assessment

Accurate energy yield calculations start with careful wind data collection and in-depth meteorological analysis. ORTECH's 50 years of experience in atmospheric sciences combined with state-of-the-art modelling and analysis provide dependable results. Our knowledge of wind resource assessment combined with ORTECH's experience in site development and project finance provides unique insight.

Plans and Permits

ORTECH can help make the complicated process of power project development easier. Our power team has first hand experience in all aspects of planning, site location, land acquisition, permitting, financing, engineering, construction, and operation. From advice to complete project management, ORTECH can assist you.

▶ Services

- Wind Resource Studies
- Plans & Permits
- Economic Analysis
- Project Financing
- Power Contracts
- Independent Review
- O&M Services and Warranty Verification





Economic Analysis

ORTECH insight ensures that your project makes economic sense. Thoughtful economic analysis goes well beyond project costing. It involves properly assessing a variety of financial input assumptions, such as capital costs per unit, annual revenue variance, maintenance cost escalators, interest rate futures and return expectations. Detailed economic analysis reveals areas of upside and uncertainty, competitive financing structures and pricing strategies.

Project Financing

ORTECH can help arrive at the optimal financing structure that connects the right kind of capital with the perfect kind of project. Efficient financing requires insight into complex incentive rules, knowledge of regional markets, understanding of construction scheduling and familiarity with investment trends. ORTECH's power team has been involved in project finance for wind and water projects for years and wants to share its insights with you.

Power Contracts

Request for Proposal (RFP) submissions vary from province to province. They are complex technical and financial documents. ORTECH staff can assist you in preparing your submission, review it for completeness and accuracy, test your assumptions against standard wind and hydro projects. We can help you obtain debt and equity financing.

Independent Review

ORTECH provides fully independent engineering review in support of your debt financing, prospectus or offering memorandum. We will ensure that the technical basis for the project is sound and that the performance assumptions about the site, the permit status, the capital cost, the revenue expectations, the operating costs and the contractual arrangements are based on defensible data and information.

O&M Services and Warranty Verification

In most cases, wind turbines and components are covered under a manufacturer's warranty and service contracts for up to five years. After that, the developer is left on his own. ORTECH Power, together with our experienced affiliates, can provide valuable advice on the comprehensiveness of the warranty, power curve guarantees, equipment operating history and planned maintenance needs to minimize and avoid expensive unplanned outages.

**For more information,
please contact our
Power Access Line**

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