

# » Independent Energy Services

Our goal is to mitigate risk, manage expectations and support a healthy bottom line.



## Independent Energy Services.

Understanding and mitigating the risks associated with renewable energy projects is critical for developers, lenders and investors. ESA Renewables firmly believes that before a potential owner invests in any solar system, the owner's facilities or site should be evaluated to determine if a solar system is feasible and if it makes economic sense. ESA can provide comprehensive independent energy assessments and due diligence services to the solar industry because of our proven track record of past projects and experience in the renewable energy field. The key to future success lies in understanding plant performance, what drives it, and attention to detail during operations.

ESA also specializes in third-party site assessments, development pipeline & risk reviews, and large portfolio reviews for solar projects in various stages of the development pipeline for acquisitions and appraisal of assets.

### » Due Diligence Services:

- Detailed Site Surveys
- Independent Assessment of Resources and Expected Energy Production
- Evaluation of Expansion Considerations
- Review of Plant Design
- Review of Grid Interconnection Plan and Design
- Review of Supplier and Contractor Qualifications
- Comprehensive Report on findings with Supporting Data
- Operations & Maintenance Program Review

### » Asset Management

Accurate energy assessments are the key to realistic expectations for project performance and have significant impact on project finance through a rigorous analysis of the solar resource at a project site. ESA provides bankable long-term energy production statistics and probabilities for proposed solar plants.

#### Services offered before construction:

- Determine needs and limitations of potential client
- Site Assessment
- Determine potential size of the system
- Shading Analysis
- Product/Equipment review
- Assess the existing electrical system
- Interconnection analysis and testing
- General schedule of completion with milestones

#### Services offered after commissioning:

- Operational performance evaluations
- Plant audits
- Benchmarking
- Long-term capacity factor projections
- Power quality analysis
- Pre-warranty expiration evaluations and inspections
- Warranty performance evaluations

