

# *Renewable Energy Yield Analyst*

**Job Description & Application Guidelines  
2021**



For further information about this post please contact:  
[julie@greenpowerinternational.com](mailto:julie@greenpowerinternational.com)

**GreenPower Developments Ltd**

The e-Centre  
Cooperage Way  
Alloa  
FK10 3LP

Tel: 01259 272158  
Fax: 01259 272159

W: [www.greenpowerinternational.com](http://www.greenpowerinternational.com)

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## **GreenPower**

GreenPower is a renewable energy company, developing, owning and operating wind, hydro and solar power projects across the UK.

Our vision is of an economy powered entirely by renewable energy. In a changing regulatory environment achieving this vision will require new thinking and new ways of doing business, which will involve GreenPower in storage, energy conversion and supply as well as our core business of generation.

GreenPower's development portfolio includes both small and large wind projects, run of river hydro schemes and solar farms. We are currently preparing to build out our first solar farm which will be co-located with an existing wind asset.

We have circa £100m of operational projects under our management, including wind and run of river hydro. Most assets are owned by GreenPower, with two projects where we are joint owners with investment funds and two operated on behalf of a third party. We are seeking to expand the operational business, both through growth of our own portfolio and providing asset management services to third parties. We believe there is significant potential in this market to improve asset management and drive additional value to project owners. As part of this growth we plan to increase and improve the operational capability of the business, including establishing an in-house platform for integrating SCADA data from all operational sites.

GreenPower employs a highly skilled team, committed to high quality ethics and working standards. In addition to robust technical and engineering diligence, our team has a strong sense of ownership, which we believe makes a strong difference to the long-term performance of the projects under our management.

The GreenPower group of companies is a multi-million pound business and further growth is anticipated.

## Job Description

GreenPower is seeking to appoint an experienced and skilled Renewable Energy Analyst whose overall objective is to optimise the energy yield from operational wind, hydro and solar sites, and to provide yield and optimum design options for GreenPower's development pipeline of solar and onshore wind projects. The Analyst will have overall responsibility for site assessments, energy yield forecasts and monitoring & analysing operational performance. The Analyst will have a key role in developing and growing GreenPower's performance assessment and improvement capabilities. The post offers the successful applicant a great opportunity to lead a key area of the business. The Analyst will be supported by a Data Manager.

Applicants should have a strong technical and scientific background and relevant industry experience.

## Roles and Responsibilities

The job will involve:

- Energy Yield Assessments for both development and operating projects, to a bankable standard;
- Power Curve & Noise warranty checks for new projects;
- Design of site measurement campaigns using both meteorological masts or RSD (Remote Sensing Devices eg Lidar and Sodar) and analysis/reporting of meteorological data;
- Availability Warranty checks on a monthly and annual basis;
- Regular project performance monitoring, including analysis of yield, downtime, causes of lost energy, defects, curtailment and constraints;
- Liaising with turbine and solar suppliers to inform technology selection;
- Evaluation of upgrades and improvements to both hardware and software/settings;
- Checking and approving OEM performance reports;
- Contributing expertise to Due Dilligence reporting;
- Evaluation of life extensions and repowering;
- Evaluation of external reports, including storage projects, co-located with generation projects;
- Developing and implementing high quality reporting formats, automated where possible and including regular dashboard reports for project managers, business managers and investors;
- Developing analysis techniques to support asset management and operations management needs, for both internal use and as a service to third parties;
- Presenting findings to managers, investors and lenders;
- Maintaining integrity in data analysis techniques and ensuring replicability of results;
- Documenting techniques and work for future audit;

## The Candidate

This position requires a candidate with a strong technical and analytical skill set with a good understanding of statistical principals. Equally, the candidate should have familiarity with and a desire to keep up to date with state of the art renewable industry technologies and techniques.

The candidate should be a team player, but also self motivated and able to take responsibility for and work on substantive tasks under their own direction. The candidate will be able to demonstrate a systematic and disciplined approach to work with a sharp attention to detail. Excellent communication skills and an ability to prepare well written and concise documents will be required.

Candidates should be degree qualified in a technical or scientific discipline, be highly computer literate and have a positive and pro-active approach to their work.

A strong working knowledge of Microsoft Office, in particular Excel, is essential; as is experience in programming in Python (or any other programming language); familiarity with and use of wind-specific computer packages (eg WAsP, WindPro, OpenWind) and with Hydro (LowFlows) and Solar (PVSol/PVSyst) software would be advantageous.

In all areas of work, the post holder will be required to manage their time and budgets appropriately, work effectively with colleagues and represent GreenPower in a professional manner at all times.

## Skills and Expertise

The successful applicant **should** have the following core skills & expertise:

- IT
  - Confident in the use of Windows based IT packages: MS Word, Excel
  - Programming Skills
  - Wind Farm / Solar plants Energy Yield Predictions
  - Strong statistical analysis skills
  - Experience with wind energy resource assessment software such as WAsP, / Windographer, WindPro, WindFarm / Windfarmer, or CFD modelling
  - Experience with solar resource assessment software such as PVSol /PVSyst
  - Experience with Computational Fluid Models is an advantage
- Qualifications
  - A Degree or Masters qualification in highly numerate disciplines eg Engineering, physics, mathematics, meteorology
- Attributes and General Aptitude
  - Strong work planning & scheduling, attention to detail and ability to work to tight deadlines
  - Excellent written and verbal communication;
  - Drive and enthusiasm and a positive attitude to problem solving

Full clean driving licence required.





## Terms and Conditions

### Salary, Term and Hours

- Salary dependent on skills and experience
- The post is a salaried post.
- You will be expected to work a minimum 37.5 hour week, including being at your nominal place of work (Alloa office) for normal office hours (i.e. 9am – 5:30pm).
- GreenPower offers a stakeholder pension scheme and a 3% employer contribution will be made into that scheme.
- The post carries a holiday entitlement of 25 days per annum accumulated pro rata, plus statutory holidays.

### Travel & Transport

- The job will require travel, principally between the Alloa office base and GreenPower's development sites. A mileage allowance applies.
- The post holder must hold a full clean current UK driving licence.

### Subsistence

- Expenses for subsistence, including accommodation, will be reimbursed at cost.

### Employer

- The employer for this post will be GreenPower Developments Ltd.
- The post-holder will report directly to a designated Line Manager.

### Review

- Performance will be reviewed after three and six months and thereafter annually in line with the staff review programme.

### Personal Development

- GreenPower believes in ongoing personal skills development and we will work with you to encourage and support you in your professional development.

### Equal Opportunities

- GreenPower is an equal opportunities employer and will not discriminate on the basis of gender, age, ethnic background or religion.

### Location

- The post will be based within modern offices in Alloa, which offer an excellent working environment. Alloa has a main line railway station with services directly to Stirling, Edinburgh and Glasgow. It is also well served by the trunk road network, with the new upper forth crossing at Kincardine.

## **Application Procedure**

Submit an up-to date CV and covering letter (including details of your current salary), plus any other appropriate details as required below, by email:

[julie@greenpowerinternational.com](mailto:julie@greenpowerinternational.com)

For further information on GreenPower, visit our web site at [www.greenpowerinternational.com](http://www.greenpowerinternational.com).

## **Application Contents**

Applicants should ensure that their application includes the following information:

- Full CV, including details of all current and previous employment and all qualifications held;
- A covering letter;
- Details of current salary;
- Details of notice period that is required by your current employer;
- Confirmation that you hold a clean current UK driving license; and
- Details of two independent referees who have direct knowledge and experience of your work. These referees will not be approached unless and until a formal job offer is made and will not be done without your prior knowledge.

## **Interviews**

Date to TBC

Initial interviews will be carried out by video conference call.

Reasonable travel and subsistence expenses incurred in attending the interview will be reimbursed.