

Job Vacancy Description:
Energy Analyst for Asia & Pacific Region
Reference: 23.18

1. The company

Trama TecnoAmbiental (TTA), with headquarters in Barcelona (Spain), is an international engineering and consulting firm in business since 1986 in the field of renewable energies and specializes in distributed generation and energy access for development. TTA's multidisciplinary team has extensive experience at both technical and management levels and has been exposed to many international projects all over the world.

With more than 35 years of experience, **TTA offers a full range of cross-cutting engineering & consulting services** for all kinds of renewable energy and energy access projects, such as:

- *Consultancy in energy access and renewable energy projects (off-grid and on-grid).* Project identification and evaluation; Technical and Economic feasibility studies; Assessment of renewable energy sources, Engineering studies; Social and environmental impact assessments; Owners Engineering services; Preparation of technical specifications and bidding documents; Support during procurement; Construction supervision; Monitoring services; Operation and Management services; Project promotion and dissemination.
- *Engineering Procurement & Construction (EPC) of micro-grids.* Design, supply, installation and commissioning of micro-grid projects.
- *Energy efficiency and green buildings.* Evaluation, design and monitoring of energy efficiency projects; Energy auditing; Integration of renewable energies into buildings and green building practices.
- *Institutional, Policy and Regulatory Support.* Design of rural electrification policies, programmes, strategies and action plans; Policy development and planning; Development of business models and tariff schemes; Market potential assessments.
- *Product development.* Development of products specific for renewable energy and rural electrification projects.
- *Capacity Building.* Capacity building and specialized trainings.
- *R&D.* Publication of articles, documents, guidelines, case studies, and presentations at international conferences.

TTA is a **pioneer firm in renewable energy-based generation and solar PV Hybrid mini-grids**. At the forefront, TTA was the driving force for the implementation of the first micro-grid projects in Spain in the early 1990s, and later on applying its expertise in Latin America, Africa and the Mediterranean. TTA has implemented mini-grids as EPC contractor in Ghana, Chad, Cape Verde, Ecuador, Palestine, Morocco, etc. some of which have been operated and maintained by TTA. Having collaborated in various tasks of the International Energy Agency (IEA), TTA was awarded with the EUREC Technology Prize 2001 “for developing excellent system technology for rural electrification based on renewable energy sources, combined with an innovative, user-oriented approach for its implementation”. Furthermore, in September 2015, TTA was awarded with the Prize “Off-Grid Experts Awards” by the company Off-Grid Phaesun together with ARE (Alliance of Rural Electrification), for excellence in the performance in the field of Off-Grid power supply, in the Category A “product” for TTA’s “Electricity Dispenser”, an advanced meter for mini-grids.

In terms of **publications**, TTA has been the main contributor of the IRENA's Innovation Outlook: Renewable Mini-grids (2016) and is author of the World Bank's ESMAP Benchmarking study of Solar PV mini grids investment costs (2017 & 2018). TTA's first hand field experience in the Operations and Maintenance of Mini-grids has been used by IRENA's Policy Toolkit. These are just some of the latest references in which TTA has participated.

Another significant milestone in the sector is TTA's leads the organization of the **International Conference on Solar Technologies & Hybrid Mini Grids to improve energy access**, a relevant sector event conducted every 2 years in Mallorca (Spain) and which has been supported by renowned organizations such as the ESMAP, World Bank, EnDev, the GIZ or SNV.

TTA's track record in the field of Renewable Energies and Rural Electrification is demonstrated by the extensive list of projects carried out around the globe for project developers, contractors, power utilities, governments as well as all major International Organizations such as the World Bank, IFC, UNDP, UNOPS, UNIDO, UNICEF, GEF, UNESCO, IDB, OAS, European Commission, AECID, GIZ, KfW, and other cooperation and development agencies, NGOs, local communities and individuals.

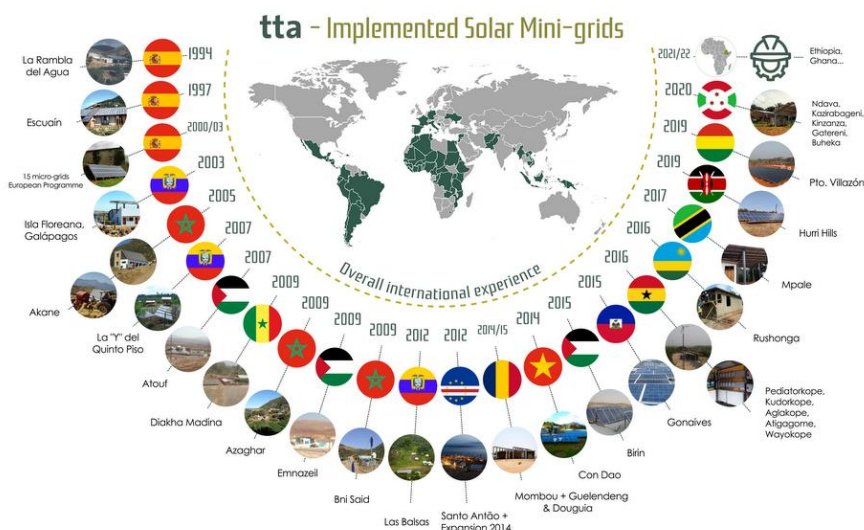


Figure 1. Countries of experience

TTA is also a member of and collaborates with the following organizations and Groups. TTA is a founding member of the **Alliance for Rural Electrification (ARE)** and TTA's Director served as Board member for three years until 2015.



Further detailed information on the work of TTA can be found at: www.tta.com.es/en

Please see some of our Microgrids projects: <https://youtu.be/Z21tenW9YXE>, <https://youtu.be/NibFpRHK8YU>

TTA's current portfolio in the Pacific region includes projects in Micronesia, Vanuatu, Tuvalu, Nauru, Papua New Guinea, and Fiji. In Asia, TTA is right now working in Indonesia and Afghanistan. In terms of the type of assignments in the Asia-Pacific unit, TTA is offering at the moment all types of services along the energy access value chain, from detailed project engineering to energy access planning at a national scale.

2. Job description

TTA is seeking an **Energy Analyst** to join the **Asia & Pacific Unit of TTA**. The Analyst will work under the supervision of the Asia & Pacific Regional Team Leader, supporting Project Management, Technical and Business Development activities. The nature of projects will mainly be related to energy access through solar-distributed PV or mini-grids. This might include on-grid and off-grid solar PV as well as hybrid technologies.

3. Responsibilities

The Energy Analyst will work in the following areas:

Project Management

1. **Support to project management:** Support the control of project timeline and budget, project team coordination, meeting deadlines, and collaboration with external partners.
2. **Client engagement:** Participate in calls, meetings, and field missions with clients.
3. **Prepare project deliverables:** Prepare data analysis, technical reports, and other deliverables required by the project in a timely manner and with high-quality writing.
4. **Field missions.** Travel to project sites when required (expected to spend less than 20% of the time in the field).

Technical

1. **Demand assessments:** Conduct demand profile studies based on data gathered and field measurements.
2. **Feasibility Studies:** Conduct technical and economic feasibility studies for Solar PV plants and mini-grid projects. Conduct energy planning studies.
3. **Conceptualize technical solutions:** Support the definition of technical solutions from the project and the client's needs; Use simulation tools such as PV Syst and HOMER Pro and in-house tools; Liaise with the engineering department to define the concept designs. Develop proprietary tools and energy models as needed for given assignments.
4. **Procurement documents:** Elaborate and coordinate the team for the preparation of Technical Specifications for bidding documents, support the elaboration of administrative procurement documentation and participation in tender evaluations.
5. **Financial and business models and delivery schemes:** Support the review institutional framework analysis as well as financial and economic models, Business Model, Tariff Setting, Revenue stream definition Client Policy, Funds mobilization, and Costing.
6. **Institutional, Policy, and Regulatory Support:** Support the development of strategic and planning documents in the field of sustainable energy, policy and regulatory frameworks, and tariff setting among others.

7. **Capacity building:** Support the preparation and deliver training for public and private stakeholders.

Business Development

1. **Support business development.** Support the Team Leader and commercial department in identifying and preparing proposals for future projects.

4. Profile

The ideal candidate for this position will have the following competencies:

1. **Educational Background.** A technical MSc. Degree is desired. Specific education in renewable energies, energy efficiency and management, sustainable energy and/or energy access will be an advantage.
2. **Previous Work Experience.** Minimum of 3 years of experience in the energy sector is required. The following will be valued:
 - a. Experience in development cooperation
 - b. Experience in engaging with clients
 - c. Experience in Asia-Pacific.
3. **Specific knowledge.** Knowledge in any of the following will be valued:
 - a. Large Solar PV plants
 - b. Rooftop PV plants
 - c. Other renewable energies: small wind, bioenergy.
 - d. Power distribution
 - e. Energy storage
 - f. Grid modelling
 - g. Power Tariffs
 - h. PPAs
 - i. Regulation
 - j. Procurement processes from international organizations.
4. **International Experience.** International experience is highly desirable.
5. **Languages.** Fluency in English with excellent writing skills is essential.
6. **Computer Skills.** Excellent command in Microsoft Word, PowerPoint, and Excel are required. Experience with solar PV design software (HOMER or PV SYST), Electrical Power System Analysis Software (e.g. Open DSS, Power Factory), QGIS (or relevant GIS software), Microsoft Project or AutoCAD will be valued.
7. **Interests.** Passionate about renewable energies and sustainable development; Motivation to travel internationally.
8. **Skills.**
 - Ability to work with minimum supervision and under pressure
 - Problem-solver, proactive and results-oriented
 - Ability to positively engage with other team members
 - Analytical skills, efficient designing and implementing of processes
 - Willing to adapt to a flexible working environment and bring new ideas
 - Methodical and well-organized
 - Ability and proven experience to think creatively, learn quickly, and develop innovative solutions
 - Cross-cultural communication and interpersonal skills.

5. Conditions

- **Salary and benefits:** TTA offers a multicultural and flexible working environment with remote work possibilities and flexible working hours, teamwork and constant learning. Salary to be defined, depending on qualifications of the candidate.
- **Starting date:** To be negotiated.
- **Position based in:** Preferably Barcelona, Spain with travels to project sites. Remote working can be observed for outstanding candidates.

Interested? → Click on the following link to upload CV and fill in the form: <https://goo.gl/forms/i05SOg847G7bsybE3>

Only shortlisted candidates will be contacted.