



Hybrid Engineer(Design BESS/Hybrid systems)

BESS+PV or BESS+Wind/modeling/ESS system

Job Information

Recruiter

Sheffield Green K.K.

Hiring Company

再生可能エネルギー発電事業

Job ID

1508214

Industry

Petrochemical, Energy

Job Type

Permanent Full-time

Location

Tokyo - 23 Wards

Salary

6 million yen ~ 8.5 million yen

Refreshed

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General Requirements

Minimum Experience Level

Over 3 years

Career Level

Mid Career

Minimum English Level

Business Level

Minimum Japanese Level

None

Minimum Education Level

Bachelor's Degree

Visa Status

Permission to work in Japan required

Job Description

- Understand and apply battery design, selection, and sizing parameters. Design BESS and hybrid systems (BESS + PV or BESS + Wind), including chemistry selection and performance modeling/simulations.
- Estimate battery lifetime, assess degradation and augmentation options
- Utilize software (e.g. HOMER, PVSyst) for battery and hybrid systems by modeling each component in detail.
- Integrate bi-directional inverters, AC systems, DC/DC converters into battery system design for stand-alone and hybrid applications.
- Understand and adhere to relevant standards: IEC 62933, UL9540A, NFPA 855, UL 1973, IEC 62619

- Develop comprehensive energy storage solutions, including battery technology, PCS, BMS, EMS, SCADA, and hybrid systems (BESS + PV or BESS + Wind). Provide technical services for project execution with system details, review utility and commercial and industrial RFPs
- Assist with battery and hybrid system development in various markets. Prepare Expression of Interest documents and Request for Quotation documents for project tender
- Manage technical documentation flow between suppliers and contractors
- Support the development of a Centre of Excellence for Energy Storage. Participate regularly in conferences and industry networks to scout for new ideas and innovations. Present technical information to external and internal teams on energy storage systems and solutions
- Ensure technical compliance of energy storage solutions
- Collaborate with Technical Advisors to complete project feasibility, detailed engineering review, and construction finance due diligence
- Oversee battery and solar design and construction by contractors for projects in Japan

Required Skills

- Masters on Large scale BESS applications
- Experience in executing large scale BESS systems in Japan
- Modelling/Simulation experience (e.g. in HOMER, PowerFactory, PVSyst)
- Established network within the industry with BESS related suppliers and contractors

Company Description