 BADAENERGY <small>A GREEN INVESTMENT GROUP - TOTALENERGIES INITIATIVE</small>	Position Description – Junior Electrical Engineer			Document Number: BAW-00-KCPY-FOR-000039
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				Rev. Date : 15-Jul-2022
Doc. Type : FOR	Discipline : PJM	Phase: OV	Class: 1	Page 1 of 5

JOB DESCRIPTION – For online posting

Are you motivated to Participate to the energy transition and deliver more than 2.5GW of renewable offshore wind energy for South Korea?

한국의 에너지 전환과 2.5 GW 이상의 신재생 해상 풍력발전 산업에 함께 기여하고 싶으신가요?

Join a dynamic team and gain experience in offshore wind industry and be part of the first commercial floating offshore wind farm in Korea.

한국 최초의 상업용 해상 풍력 산업을 개발 중인 다이나믹한 팀에 합류하여 해상 풍력 산업에 대한 경험을 쌓고 가치를 나누며 함께 성장하실 분을 찾습니다.

Context and environment

Corio Generation and TotalEnergies Offshore Wind Korea are developing five offshore wind farms in Republic of Korea (2,6GW) under the name of BadaEnergy with a joint development and technical team based in Seoul.

코리오 제너레이션과 토탈에너지스오프쇼어윈드코리아는 바다에너지라는 합작 브랜드를 통해, 서울에 개발 및 기술팀을 두고 한국 내에 5 개소, 총 2.6 GW 규모의 해상풍력발전단지를 개발하고 있습니다.

Based in Seoul, you will be involved from the early stage of development, embedded into a young, dynamic, and multinational team. You will also have the opportunity to move to Ulsan for the detailed engineering and construction phase of the first floating farm project (2024).

Your added value will be on your strong motivation to support ongoing activities, to liaise with other BadaEnergy team members, to interface with suppliers and on your proactivity.

서울 근무를 기반으로, 초기 해상풍력 프로젝트 개발을 이끌어갈 젊고 역동적인 다국적팀의 일원을 찾고 있으며, 첫 부유식 해상풍력 상세 설계 및 2024 년 예정된 건설 단계에서 울산으로 이동 근무할 수 있는 기회도 제공됩니다.


현재 진행 중인 프로젝트 포트폴리오에 기여하고, 바다에너지 팀원들과 협업하며 공급업체와 원활히 소통하실 수 있는 진취적인 인재를 모십니다.

Job dimension 모집 부문

As a Junior Electrical Engineer, under supervision of an experienced electrical engineer and engineering manager, you will get a unique chance to apply your academic knowledge and learn more on job training basis

숙련된 전기 엔지니어와 엔지니어링 매니저의 감독 하에 기존 지식을 적용하고, 직업 훈련을 통해 성장할 수 있는 주니어 전기 엔지니어를 모집합니다.

Working initially in the development phase of several projects in the BadaEnergy portfolio, will participate to the definition of the main electrical system design for the project, covering electrical system design, onshore substation, offshore substation and associated inter-array and export cables, SCADA/Communication systems.

 BADAENERGY <small>A GREEN INVESTMENT GROUP - TOTAL ENERGIES INITIATIVE</small>	Position Description – Junior Electrical Engineer			Document Number: BAW-00-KCPY-FOR-000039
				Revision : 00 Status : IFU
				Rev. Date : 15-Jul-2022
Doc. Type : FOR	Discipline : PJM	Phase: OV	Class: 1	Page 2 of 5

바다에너지 포트폴리오의 여러 프로젝트 개발 단계 초기부터 기여하며 전기 시스템 설계, 육상 변전소, 해상 변전소 및 관련 내부전력망과 송전 케이블, SCADA/통신 시스템을 포함하는 주요 전기 시스템 설계에 참여하게 됩니다.

You will assess and review the progress of the Engineering Contractors for the electrical discipline and verify the project's electrical system design, supporting on all aspects of the HV generation and transmission system up to the grid interface point. You will coordinate interface meeting for the electrical discipline between various Contractors.

전기 분야에 대한 엔지니어링 계약자의 진행 상황을 평가 및 검토하고 그리드 인터페이스 지점까지 HV 제너레이션 및 송전 시스템의 모든 측면을 지원하는 프로젝트의 전기 시스템 설계를 확인하며, 다양한 계약자 간의 전기 분야에 대한 인터페이스 회의를 조율합니다.

You will be involved in EPC tendering process as technical focal point for electrical scope. You will participate to the preparation of scope of work and be part of technical assessment team till recommendation to award.

엔지니어링 및 EPC 계약의 전기 부문 기술 담당자로, 입찰까지의 업무범위 및 기술적 평가에 관여하게 됩니다.

During execution of the project you will supervise the detailed design of the electrical system.

또한 프로젝트를 실행하는 동안 전기 시스템의 상세 설계를 감독하게 됩니다.

Main activities 주요 업무

- Provide support and expertise and contribution with regards to electrical discipline

전기 분야에 대한 전문 기술 지식을 제공하고 지원합니다.

- Ensure that the engineering activities related to structure are performed in compliance with applicable laws, regulations and standards defined as per contracts,

구조 관련 엔지니어링 업무가 해당 계약에 정의된 법률, 규정 및 표준에 따라 수행되는지 확인합니다.

- Support the definition of the main electrical system design for the project, covering electrical system design, onshore substation, offshore substation and associated inter-array and export cables, SCADA/Communication systems


전기 시스템 설계, 육상 변전소, 해상 변전소 및 관련 내부전력망과 송전 케이블, SCADA/통신 시스템을 포괄하는 주요 전기 시스템 설계에 참여하게 됩니다.

- Review electrical studies/specifications issued from the different contractors designing the different system of the plant during the different phase of the execution (Owner's Engineer, FEED contractors, EPC contractors),

각각 다른 단계에서 여러 계약자로부터 설계된 시스템을 전기 분야 연구 결과 및 스펙에 맞추어 각 단계 (오너 엔지니어, FEED 계약, EPC 계약)마다 다각면으로 검토합니다.

- Support and review technical specification and/or employer's requirement for procurement tendering of electrical systems,

전기 시스템 조달 입찰에 대한 기술 사양 및/또는 고용주의 요구 사항을 지원하고 검토합니다

 BADAENERGY <small>A GREEN INVESTMENT GROUP - TOTAL ENERGIES INITIATIVE</small>	Position Description – Junior Electrical Engineer			Document Number: BAW-00-KCPY-FOR-000039
				Revision : 00 Status : IFU
				Rev. Date : 15-Jul-2022
Doc. Type : FOR	Discipline : PJM	Phase: OV	Class: 1	Page 3 of 5

- Development of specifications for consultancy work if required, subsequent clarifications and ensuring specification compliance with selected consultants,

필요한 경우, 스펙을 발전시키기 위한 자문을 제공하고 지속적인 설명을 통해 선택된 컨설턴트가 변동없이 사양을 준수할 수 있도록 지원합니다.

- Control interface information provided to and from Contractors regarding electrical studies. Make sure that interface information is processed as per the required quality and due date,

전기 연구에 관해 계약자에게 제공되는 제어 인터페이스 정보와 그에 대한 품질기준이 기한에 따라 처리될 수 있도록 확인 합니다.

- Participate in the preparation of the electrical scope for EPCI packages and Long Lead items Purchase Orders (Offshore substation, onshore substations, export cables)

EPCI 패키지 및 롱 리드 품목 (해상 변전소, 육상 변전소, 송전 케이블) 계약 준비에 참여합니다.

Required experience and competencies 자격 요건 및 우대 사항

- Master degree or equivalent in electrical engineering and/or power engineering discipline,

전기 공학 및/또는 전력 공학 분야의 석사 학위 또는 이와 동등한 자격 보유자 ,

- First professional experience in electrical engineering,

전기 공학관련 직무 근무 경험

- Knowledge on transmission and substation design and operation,

송전 및 변전소 설계와 운영에 대한 지식,

- Professional or academical experience in offshore wind or similar energy industry projects would be a plus,

해상 풍력 또는 유사한 에너지 산업 프로젝트에 대한 근무 혹은 학업 경험 우대


- Good communication skills, able to communicate effectively within a multicultural project team

다국적 프로젝트 팀 내 효율적으로 협업할 수 있는 원활한 의사소통 능력

- Native Korean speaker with knowledge in English (written and spoken).

한국어 능통 및 영어 비즈니스 회화, 작문 가능자

JOB DESCRIPTION	
Job Title	Junior Offshore wind electrical engineer

	Position Description – Junior Electrical Engineer			Document Number: BAW-00-KCPY-FOR-000039
				Revision : 00 Status : IFU
				Rev. Date : 15-Jul-2022
Doc. Type : FOR	Discipline : PJM	Phase: OV	Class: 1	Page 4 of 5

Context and Environment

Corio Generation (Korea) Limited and TotalEnergies Offshore Wind Korea, through their affiliated Special Purpose Companies, are in the process of developing five offshore wind farms (2.3 GW) in Republic of Korea. These five wind farms are developed under the name of BadaEnergy in overall and executed by a joint team based in Seoul.

Job Dimension

Working initially in the pre-consenting phase of several projects in the BadaEnergy portfolio, the Electrical Engineer (Offshore Wind) will be responsible for ensuring a robust through life design of the project's electrical system, supporting on all aspects of the HV generation and transmission system up to the grid interface point.

The projects are currently in the pre-FEED phase, and as such are focussing on establishing the consenting envelope and high level system design. The role will form part of the project's engineering capability and will support the Lead Electrical engineer and the Engineering Manager.

Reports to	Engineering Manager
Direct report	No

Main activities

In particular his/her responsibilities include:

Engineering Coordination Tasks


- Support the definition of the main electrical system design for the project, covering electrical system design, onshore substation, offshore substation and associated inter-array and export cables, SCADA/Communication systems
- Review electrical studies/specifications issued from the different contractors designing the different system of the plant during the different phase of the execution (Owner's Engineer, FEED contractors, EPC contractors),
- Support and review technical specification and/or employer's requirement for procurement tendering of electrical, SCADA and telecommunication systems
- Development of specifications for consultancy work if required, subsequent clarifications and ensuring specification compliance with selected consultants,
- Define and implement activities relating to certification of the electrical packages and ensure compliance with regulatory requirements,
- Expedite the various Contractors to issue Electrical deliverables with the right quality level. Ensure that comments to Contractor deliverables are performed on time and that Contract requirements will be met,
- Assess and review on regular basis the progress of the Engineering Contractors. Alert hierarchy in case of Contractor under performance. Prepare action plan to mitigate potential under performance and execute it,

Interface coordination

- Control interface information provided to and from Contractors regarding electrical studies. Make sure that interface information is processed as per the required quality and due date,
- Make sure that Owner's engineer is correctly following/updating electrical simulations to ensure thorough follow-up of the design,
- Organize interface coordination meetings as required,

Suppliers/Supply chain's qualification

- Coordinate with Ad Hoc personnel or Third Parties qualification visits to potential subcontractor's or contractors,

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				Revision : 00 Status : IFU
				Rev. Date : 15-Jul-2022
Doc. Type : FOR	Discipline : PJM	Phase: OV	Class: 1	Page 5 of 5

- Establish contacts with the supply chain, evaluate their capacity, and ensure that fabrication and logistic optimization and constraints are considered in the design process; carry out RFI processes where and when applicable
- Help to build Approved Vendor list for Tendering.
- Coordinate and discuss with suppliers of electrical equipment and SCADA/telecommunication systems, and validate the compliance of supplier's technical specification with Korean regulation

Tendering

- Define and review electrical scope of the different engineering and EPC contracts that will be executed on the portfolio,
- Participate during tender phases to the analysis, clarifications and evaluation of the potential Tenderer proposals (Owner's Engineer tender, Floater technology FEED/EPC tender, FEED transmission system, various EPC tenders for transmission system)
- Prepare Tendering technical document under senior electrical engineer and engineering lead supervision,
- Participate to technical clarification meetings process,
- Prepare recommendation to award for management approval.

HSE

- Ensure safety through design and through life performance of the assets.
- Adhere to and effectively communicate Project HSE Policies,
- Proactively intervene where HSE deficiencies are identified and report,
- Attend Project HSE meetings, training and inspection as when invited to,
- Consult HSE team in the execution and planning of key critical activities.

Required Experiences

- University degree or comparable graduate education in electrical engineering and/or power engineering discipline,
- Knowledge on transmission and substation design and operation
- First professional experience in electrical engineering, experience in offshore wind or similar energy industry projects would be a plus,
- Work experience in KEPCO and electrical engineering firm will be a plus
- Academical experience in renewables would be a plus,
- Good communication skills, able to communicate effectively within a multicultural project team
- Excellent analytical and conceptual skills, being able to drive innovative and strategic thinking

Others

- Employer: TotalEnergies Offshore Wind Korea branch
- Contract type: full time
- Fluent in Korean,
- English fluent speaking / writing
- Chartered (licensed) Electrical Engineer in Korea will be plus
- Microsoft Office Package skill (Word, Excel, Power Point and VISIO)

Location	Seoul	Travel requirement	Within Korea
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