



Ir. KHIRUL NIZAM BIN SHAMSUDIN



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Aspiration

I am passionately committed to leveraging my skills and experience for impactful roles that drive positive transformations, enhance operational efficiency, optimize profitability, and propel sustainable business growth.



Professional Summary

Accomplished electrical engineer with 17+ years of experience driving strategic growth and operational excellence. With a deep understanding of the renewable energy landscape, coupled with strong leadership skills, I have successfully led and executed complex projects across various stages of the value chain, from development to operations. My expertise in strategy, business development, engineering, project management and operations has enabled me to deliver significant value to the organization. I possess a proven track record in driving growth, managing large-scale projects, optimizing financial performance and building high-performance teams.



Skills

- **Renewable Energy Project Development:** leading end-to-end development of renewable energy projects, both locally and internationally, encompassing greenfield and brownfield sites, with a focus on business growth and maximizing return on investment.
- **Strategic Business Assessment & Engineering:** conducting comprehensive due diligence, financial analysis, and risk assessment, while optimizing design, developing and reviewing specifications, and finalizing project documents to optimize project feasibility and profitability.
- **Asset Development:** managing the entire lifecycle from engineering and procurement to project management, regulatory compliance, and portfolio management, ensuring projects are delivered on time, within budget, and to the highest quality standards.
- **Asset Management:** driving operational efficiency through effective maintenance, performance enhancement strategies, commercial and contract management, cost control, and comprehensive assessment of both technical and financial metrics.



Education

Master of Business Administration (MBA)

Jan 2015 – August 2016

Universiti Tenaga Nasional, Malaysia - Melbourne Business School, Australia

Bachelor of Engineering (Hons) Electrical

Jan 2004 – May 2007

Universiti Teknologi Mara, Malaysia

Diploma in Electrical Engineering (Power)

Nov 2000 – April 2004

Universiti Teknologi Mara, Malaysia



Professional Certifications

ASEAN Chartered Professional Engineer (ACPE)

Year Obtained: 2021

Issued by: Board of Engineers Malaysia (BEM)

Competent Electrical Engineer up to 132kV

Year Obtained: 2019

Issued by: Energy Commission of Malaysia (EC)

Graduate Certificate in Management

Year Obtained: 2015

Issued by: University of Melbourne

Professional Engineer with Practicing Certificate

Year Obtained: 2013

Issued by: Board of Engineers Malaysia (BEM)

Qualified Person, Grid-Connected Photovoltaic Systems Design

Year Obtained: 2012

Issued by: Sustainable Energy Development Authority of Malaysia (SEDA)



Professional Experience

Tenaga Nasional Berhad (TNB)

Full time . 2007 – Present . 17 years

Lead, Strategic Partnership & Business Development, New Energy Division, TNB Selangor, MALAYSIA

2024 – Present

- Spearheaded strategic partnerships, business development initiatives, and bid management for large-scale renewable energy projects.
- Developed and implemented optimized bidding strategies to enhance competitiveness.
- Leveraged technical expertise to address grid connection challenges.

Deputy Chief Operating Officer, GAMA Enerji A.S. (GEAS) Ankara, TÜRKİYE

2022 – 2024

- Managed TNB's investments in Turkey, establishing strategic partnerships and driving business growth.
- Led the operation of a diverse power generation portfolio, ensuring operational excellence and financial performance.
- Strengthened TNB's position in the Turkish energy market through regulatory engagement and stakeholder management.

Chief Operating Officer, TNB Renewables Sdn. Bhd. (TRe) Selangor, MALAYSIA

2018 – 2022

- Developed and executed TRe's strategic roadmap, driving growth and profitability.
- Successfully delivered large-scale renewable energy projects, exceeding key performance indicators.
- Pioneered new business models and expanded TRe's market presence.
- Optimized asset performance and managed a diverse renewable energy portfolio.

Senior Manager, New Energy Development, Energy Ventures Division, TNB Selangor, MALAYSIA

2014 – 2018

- Contributed to TNB's strategic transformation and growth initiatives.
- Secured large-scale renewable energy projects through competitive bidding.
- Led technical due diligence for international project acquisitions.

Manager, Engineering & Consultancy Services, TNB Energy Services Sdn. Bhd. (TNBES) Selangor, MALAYSIA

2010 – 2014

- Provided technical expertise for grid connection of renewable energy projects.
- Managed the operation and maintenance of renewable energy power plants.
- Contributed to the development of industry standards.

Engineer, Operation & Maintenance, TNB Energy Services Sdn. Bhd. (TNBES) Selangor, MALAYSIA

2007 - 2010

- Gained hands-on experience in operating and maintaining renewable energy power plants.



Languages

Malay: Outstanding proficiency in both written and oral communication.

English: Proficient in both written and verbal communication, ensuring clear and effective exchange of ideas.



Reference

Available upon request