# Engineering for the NEXT

Introduction of International Business Unit



Tokyo Electric Power Services Co., Ltd.

# Company **Overview**

Since its establishment in 1960, Tokyo Electric Power Services Co., Ltd. (TEPSCO)has implemented consulting and engineering projects such as: planning all aspects of electrical facilities, from power generation to transmission and substation, study, construction supervision and maintenance in Japan and worldwide.

With highly experienced and knowledgeable engineers, we provide top quality services to clients including power utilities, overseas Japanese Official Development Assistance(ODA) entities and even private businesses.

The energy industry market has undergone an "age of transformation" such as the swift progression of the carbon-neutrality and digital (DX) trends. This is especially evident in the trend towards diversification of energy and the promotion of renewable energy use, which requires us to reconsider the state of energy.

We,TEPSCO, harness this change as an opportunity to find solutions to difficult problems and continuously evolve. Furthermore, through our work in building out global energy infrastructure, we are not only able to meet our client's expectations, but also able to contribute to positively to society.

# Legal Status





# **TEPSCO by number**



TEPSCO was established in 1960 as a fully-owned subsidiary of Tokyo Electric Power Company Holdings, Inc., (TEPCO) the largest electricity company in Japan.

920+ #7 employees worldwide



With our highly competent, skilled workforce of over 920 employees, we are more than able to handle difficult power sector engineering problems worldwide.

1,040+ ¥ projects successfully executed

We have executed more than 1,000 international projects successfully through interacting closely with clients.

700+ engineers



Our highly qualified engineers provide high quality services through creativity, diligence and a desire for improvement.

100 +

countries in which TEPSCO has been successful

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We are committed to providing high client satisfaction, and have done so in 100 countries. We analyze and consider each country's unique features and energy trends to meet each client's needs.





Our certified employees utilize their knowledge and experience to offer high quality and trusted services.

# <sup>Our</sup> Business

TEPSCO is an international electric power consulting and engineering company that primarily engages in design and supervision of civil, architectural, electrical and mechanical facilities. We are committed to providing a one-stop service to ensure top-quality and innovative solutions for each client by carefully considering their specific needs. At the same time, we conduct our business activities in consideration of the ESG (environmental, social and governance) criteria as a member of the international community and make positive contributions to achieving the SDGs.



# **Business Details**

# Power Generation

#### Thermal Power

- Surveys and design associated with thermal power generationprojects
- Review of the design drawing and preparation for technical data

#### Hydropower

- Review of the design drawing and preparation for technical data
- Environmental surveys associated with hydropower plant
- Advisory services for operation &management

#### Renewable Energy

- Design for equipment for solar, wind and biomass power generation
- •Feasibility study for solar, wind and biomass power generation

#### Nuclear Power (domestic services)

- Overall design of facilities
- Design of electrical and mechanical equipment
- Technical supports for operation and maintenance

# 街 Transmission and Distribution

#### Power Transmission

- •Overhead and underground power transmission
- Transmission towers and foundation
- Displacement measurement of transmission towers
- Impact assessment of construction

## Electrical Substation

- Power substation equipment and foundation
- •Emergency power generation equipment
- Renewal plan and floor load test

#### Interconnection Lines

- Design of transmission towers for new interconnection lines
- Underground transmission lines
- Output control management
- Electrical system analysis
- System interconnection

# 👜 Urban Planning

#### Urban Planning

- Design of sustainable cities
- Urban infrastructure planning
- Design for the general building
- Design for the building equipment

#### Disaster Prevention

- Earthquake and tsunami analysis
- Resistance/deterioration diagnosis
- Analysis of slope failure

#### Transportation Infrastructure

- Road equipment for transportation infrastructure
- Electrical equipment design for rail infrastructure
- •Bridges engineering (earthquake resistance)

# dX-GX

DX·GX

- Point cloud data collection3D measurement of buildings
- Design of 3D modelGrid-scale batteries

### ZEB/ZEH

20.000

# Corporate **History**

# 1960 —

# Establishment

Newly established as a fully owned subsidiary of TEPCO, the largest electricity company in Japan.

# 1963

# **Overseas expansion**

Executed our first international project in India.

# **1970~1980** 1972

Implemented our first international consulting project in the field of thermal power

# 1980

Promoted and expanded business activities in the hydropower sector

# 1980~2010

# Business expansion and Establishment of status

Expanded international business steadily through participation in large scale projects and the accumulation of experience.



# **Overseas Projects**



# **The 2020**s~

# Expansion of business areas and services in accordance with the times

With an innovative and challenging spirit that is not bound by existing concepts, TEPSCO aims to solve social problems and provides high quality services to meet all the needs of clients that change with the times.



# International **Services**

TEPSCO has established effective working relationships with clients through close interactions at each overseas office. We aim to provide flexible and innovative services and expand our business by making the most of our global network.

# Offices around the world



\* including a local subsidiary (TEPSCO Vietnam) and project offices (as of August, 2024)

## Malaysia



### Indonesia



### Bangladesh





► Myanmar

►Taiwan

►Iraq ►Uganda

► Mozambique





► TEPSCOVietnam(Local Subsidiary)

### Egypt







# Transmission & Distribution

Since its foundation, TEPSCO has developed its business by primarily engaging in overhead transmission lines, underground transmission lines, substations and distribution equipment.

Transmission and distribution service is still our main business and the wide range of experience and knowledge we have accumulated over the years enable us to provide top-level services.

We also aim to contribute to the realization of a sustainable society by finding solutions to the social problem of "stable supply and efficiency of electric power" through system analysis.



#### Cairo-Alexandria Transmission System Project-Sidi Krir 500kV Substation (Egypt)

# **Types of Services**

- High-voltage transmission (HVAC/HVDC)
- Advanced distribution system
- Rural electrification
- Substations
- on the ground & underground
- Smart grid system
- System control /SCADA
- Network control
- Energy storage technology
- O&M solution services



Construction of a 200kV Transmission Line on the Energy Control System Upgrading Project in Upper Egypt. Installation of a Transmission Line between Aswan and Cairo.

# Safe and Secure Long Distance Transmission

In Egypt, the construction of new power plants has advanced in conjunction with the rapid increase in electricity demand, However, the existing 220 kV power grid ran out of capacity, and it was difficult to stably transmit the electricity from these new power plants.

This project supported the installation of a 500 kV transmission line and the construction of a new substation. Also, TEPSCO provided consultation for power transmission solutions that enabled the client to facilitate safe, stable, and efficient power transmission.



Construction of a Transmission Line

RTDS Training (Mongolia)

# Hydropower

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Whilst the importance of transitioning to a low carbon society is evident worldwide, hydropower has naturally attracted attention as a renewable energy source with a low environmental impact that can help to realize this transition. TEPSCO has high-quality hydropower expertise garnered from over half a century of experience in projects of all sizes in Japan and internationally. We can harness this expertise effectively to provide impeccable service to meet the varied and demanding needs of our clients in the hydropower field. Moreover, as a leading company in the hydropower business, we will keep

challenging to promote the introduction of green energy in the modern age along with energy innovation for the future.



Sipan Sihaporas No.1 Power Station Regulating Dam (Indonesia)

# Contributing to System Stabilization through Variable Speed Pumping Storage Hydropower

The introduction of green energy and the expansion of renewable energy sources such as solar power and wind power bring with it the challenge of also providing a stable (non-fluctuating) power supply. TEPSCO aims to improve system stability based on its unrivalled expertise and experience with variable speed pumped storage power plants (PSPP). TEPSCO sincerely believes that PSPP technology (which does not incur fuel costs and is unaffected by the weather), where possible to be utilized, can contribute to enabling a stable power supply and reduce  $CO_2$  emissions.

# **Types of Services**

- Dam type/Conduit type hydropower plant
- Micro hydropower plant
- Run-of-river hydropower
- Variable speed pumped hydro storage
- Environmental and social advisor
- Dam restoration
- O&M solution services



Tunneling Boring Machine (TBM) on the Pahang-Selangor Paw Water Transfer Project (Malaysia)



Kota Panjang Hydropower project (Indonesia)



The large-scale Adjustable Speed Pumped Storage Power Generator commenced in 2014 (Generator No.4 at TEPCO's Kazunogawa Pumped Storage Power Station, Japan)



Pumping Station on the Pahang-Selangor Raw Water Transfer Project (Malaysia)

# Thermal power

Over 60 years ago, TEPSCO took its first step into international business with through consulting on a thermal power project in India. Since then, within the thermal power sector, TEPSCO has provided comprehensive services ranging from planning to construction and operation and management around the world.

In today's society, where efficient and stable energy supply is required to promote a low-carbon society, we are highly conscious of necessity to foster low environmental impact thermal power generation. TEPSCO with its wealth of thermal power experience is adept at providing innovative technology solutions and knowledge to its clients in this field.



Port Dickson Thermal Power Plant Construction Project (Malaysia)



Maputo combined cycle power plant (Mozambique)

# **Types of Services**

- Steam power generation
- Gas combined cycle power plant
- Hydrogen co-firing
- Ammonia co-firing
- Woody biomass energy
- Cogeneration (heat & power)
- Flue gas desulphurization
- Fuel handling system
- (coal, LNG, ammonia, hydrogen)
- O&M solution services



Flue Gas Desulphurization Plant Construction Project at the Turceni Thermal Plant (Romania)

# Initiatives toward Zero-emission thermal power

In order to achieve carbon neutrality, it is necessary to reduce CO<sub>2</sub> emissions from thermal power generation into the atmosphere to virtually zero. TEPSCO provides advanced technical services to transition from conventional thermal power generation to decarbonized thermal power generation using decarbonized fuels, such as Hydrogen, Ammonia, CCUS, etc. with a stable supply of electricity as a major premises.



# Renewable Energy

It is an undisputed fact that renewable energy is essential in meeting the growing global demand for electricity in an environmentally sustainable way. Put another way, renewable energy is a critical part of the energy mix and provides part of the solution to meeting the competing demands of providing a stable, sustainable electricity supply to a power hungry world.

TEPSCO has a wealth of experience in providing renewable energy solutions to its clients around the world. We are constantly developing and sharpening our skills in this field and are equipped to both meeting our clients' needs and also contribute positively to realizing a carbon neutral world.



# **Types of Services**

- Renewable energy master plan
- Onshore wind farms
- Solar PV
- Geothermal energy
- Woody biomass energy
- Energy storage solutions
- Grid stabilization technology
- Environmental,
  - social and economic assessment



Isabela Micro Hydro Power Plant (Philippines)

Construction of a Wind Farm on the Zafarana Wind Power Project (JICA ODA loan project / Photo from JICA) (Egypt)

# **Total Solution with considering Power Grid**

As the introduction of renewable energy continues to expand as an effective and eco friendly measure against climate change, stabilizing the supply-demand adjustment balance due to output fluctuations has become a critical issue. Based on the knowledge and advanced technology acquired through operations, TEPSCO conducts power system simulations in addition to power supply and demand simulations with multiple scenarios, and propose total solutions.





Photovoltaic Power Station (Mongolia)



Electric Power System Training (Cambodia)

# 

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It has been a critical challenge to harmonize society with the natural environment and economic growth in countries experiencing high population growth and industrialization.

We engage in urban planning projects such as smart city with our innovative technologyto be economically sustainable. We provide the highest standard of sustainability, resilience and smart technology with the advanced solutions for the urban development projects.



Computational Fluid Dynamics (CFD) analysis

# Types of Services

- Energy master plan
- Integrated energy modeling
- Micro grid
- Demand-side management
- Smart building/Energy conservation
- Urban resilience
- Design of environmental model city



Underground substation (Japan)

# Smart City that realizes a Decarbonized Society

To achieve carbon neutrality, we will aim to realize a Smart City with using our cutting edge technology for digitalization solution and energy saving solution, such as ZEB/ZEH.

As a member of TEPCO Group which is the largest electric company in Japan, we have experienced in electrical equipment design for power facilities and general buildings, as well as installation projects for solar power generation, electric vehicle (EV) charging equipment, etc. We provide optimal proposals for realizing decarbonized society.



Measurement and underground modeling



Point cloud data using a 3D scanner



Underground 3D map

# **Engineering for the NEXT**

# Challenging the future, creating new possibilities

TEPSCO provides wide-ranging engineering services for : planning, feasibility studies, designing, supervision, and operation and maintenance.

# **Company Data**

# Legal Status

# Legal Name

Tokyo Electric Power Services Company, Limited

Establishment

20 December 1960

Authorized Capital

¥160 million (paid-in capital ¥40 million)

President

Yasuhiro KUBO

Number of Our Staff 929 (as of July, 2024)

# Company Organization (as of July, 2024)

	Board	d of D	rectors	Auditor
	Chairman / P			
		┢	- Senior Exe	ctive Officer / Exective Officer
<ul> <li>International Business Unit</li> <li>Power Solutions Div.</li> </ul>		-	– Internal / – CKO (C	Audit Office hief KAIZEN Officer)
Energy Solutions Div	Energy Solutions Div.		- Fukushima Revitalization Officer	
Power System Div.			- Busines	s Administration Unit -
Infrastructure & Civil Engineering Unit – Civil Engineering Div. Geotechnical Engineering Div. Renewable Energy Div.			Corpora	te Accounting Dept
			QSR Contr	rol Dept. (Quality Safty Risk) -
			Public F	s Planning Unit -
			Research ar	nd Business Development Office -
Architectural and Structural Er	igineering Div.	-	Corpora	te Planning Dept.
Nuclear Power Div.		_	Human	Resource Dept
		L	— Business D	evelopment & Promotion Unit –
			Green tran	sformation Promoting Office -
			Bigitarti	and official official

Business and Marketing Div.

# **Annual Sales**

Fiscal Year	Whole Company	Overseas Projects
2019	\$203 million (¥22.1 billion)	\$36 million (¥3.9 billion)
2020	\$185 million (¥20.0 billion)	\$20 million (¥2.2 billion)
2021	\$177 million (¥21.0 billion)	\$33 million (¥3.9 billion)
2022	\$179 million (¥23.9 billion)	\$29 million (¥3.9 billion)
2023	\$155 million (¥23.2 billion)	\$27 million (¥4.0 billion)

(based on the exchange rate of the respective year)

# Our Certified Engineers (as of July,2024)

Doctor (PhD) of Engineering	46
Doctor (PhD) of Science	4
Doctor (PhD) of Philosophy	1
Professional Engineer (PE-J)	127
Registered Professional Engineer (PE-US)	9
Registered Civil Consulting Engineering Manager (RCCM)	18
Authorized Chief Concrete Engineer	····· 3
Concrete Diagnosis and Maintenance Engineer	18
Steel Infrastructure Diagnosis Engineer	2
1st Class Civil Engineering Works Execution Managing Engineer	24
1st Class Plumbing Work Operation and Management Engineer	5
Certified Surveyor	6
Structural Design 1st Class Architect	19
Building Facility Design 1st Class Architect	6
1st Class Architect	59
Building Mechanical and Electrical Engineer	10
1st Class Building Operation and Management Engineer	4
1st Class Electric Chief Engineer	14
Chief Transmission and Switching Engineer	6
1st Class Electrical Work Operation and Management Engineer	22
Qualified Person for Energy Management	36
Chief Engineer of Reactors	3
1st Class Radiation Protection Supervisor	5

# COMPANY OUTLINE 2024

# Major Overseas Projects

# Planning Phase Master Plan / Feasibility Study / Survey

Sector	Project	Country	Services	Client (Counterpart)	Duration
	Data Collection Survey on Azerbaijan's Power Sector	Azerbaijan	Feasibility Study	JICA	2020-2022
	Data collection survey on power sector in Indonesia for decarbonization	Indonesia	Master Plan	JICA (MEMR, PLN)	2021-2022
5	Master Plan for Developing Environmental Friendly Technologies in Iranian Power Sector	Iran	Master Plan	JICA (MOE)	2017-2020
Energy	Project on Power System Master Plan 2040 in Royal Government of Bhutan	Bhutan	Master Plan	JICA (MoEA, DHPS)	2017-2022
	Project on Electricity Sector Master Plan Study	Sri Lanka	Master Plan	JICA (MPRE, CEB)	2016-2018
	Master Plan for Energy Transition Management Project	Indonesia	Master Plan	JICA (PLN, MEMR)	2023-on going
	Project for the Formulation of MIDI Master Plan	Bangladesh	Master Plan	Development Authority)	2024-on going
	Feasibility Study for Expansion of Kapar Plant in Malaysia with H2-ready & Low-carbon Gas Turbine Technology	Malaysia	Feasibility Study	METI (TNB, MESTECC, Energy Commission, SEDA)	2021-2022 2023-2024
	Preparatory Survey for Construction of Nacala Emergency Power Plant	Mozambique	Feasibility Study	JICA (EDM)	2019
	Feasibility Study of the 500-630MW LNG Based Combined Cycle Power Plant at Matabari	Bangladesh	Feasibility Study	Private Firm	2019
Thermal	Preparatory Survey on Shahid Rajaee Power Plant Construction Project (680MW×2)	Iran	Feasibility Study	JICA (TPPH)	2017-2018
	Preparatory Survey on Navoi Thermal Power Station Modernization Project	Uzbekistan	Feasibility Study	JICA (Uzbekenergo)	2016-2020
	Data collection survey on electrical grid and generation development in southern Mozambique	Mozambique	Feasibility Study	JICA (MIREME, EDM)	2021-2022
	Feasibility Study on Fuel Supply of the Power Plant Phase II Renewal and Reconstruction Project	Taiwan	Feasibility Study	Private Firm	2020-2021
	Updates of Feasibility Studies for Small Hydropower Plants in Eastern Indonesia	Indonesia	Feasibility Study	Private Firm	2018-2019
	Umiam Stage-III Power Station Renovation Project	India	Feasibility Study	JICA (MeECL)	2017-2018
Hudropower	Preparatory Survey on Adjustable Speed Type Pumped-Storage Hydroelectric Power Plant Construction Project	Turkey	Feasibility Study	JICA (DSI)	2014-2016
nyaropower	Feasibility Study on Telom Hydroelectric Project	Malaysia	Feasibility Study	Private Firm	2014-2015
	Hydro Power Plant Development Project	Bhutan	Feasibility Study	JICA (Druk Hydro Energy Ltd., DGPC, BPC)	2023-on going
	Preparatory Survey for the Project for Rehabilitation of Inga 2 Hydropower Station	DRC	Feasibility Study	JICA (SNEL, MERH)	2022-2024
	Preparatory Survey on the Project for Transmission System Reinforcement in Southern Angola	Angola	Feasibility Study	JICA (RNT, INAD)	2019-2023
	Feasibility Study on Shared Smart Meter with the Solution of System Loss Reduction	Philippines	Feasibility Study	Private Firm	2019-2020
	National Power Transmission Network Development Project Phase3	Myanmar	Feasibility Study	JICA (DPTSC)	2019-2021
	The Study on Power Network System Master Plan in Lao People's Democratic Republic	Laos	Master Plan	JICA (MEM, EDL)	2017-2020
I ransmission & Distribution	Data Collection Survey on Power Sector in Tunisia	Tunisia	Feasibility Study	JICA (STEG)	2020-2022
	Chimuara-Nacala Transmission Project Feasibility Study People's Republic of Rangladesh, Power & Energy	Mozambique	Feasibility Study	JICA (EDM)	2016-2020
	Sector Master Plan	Bangladesh	Master Plan	(MOPEMR, BPDB)	2014-2016
	Data Collection Survey on Improvement of Power System Operation in Laos	Laos	Feasibility Study	JICA (EDL)	2023-2024
	Data collection survey on power sector in Kyrgyzstan and Tajikistan	Kyrgyzstan / Tadzhikistan	Feasibility Study	JICA	2023-2024
	Project for Integrated Energy Master Plan towards Sustainable Carbon Neutral Society	Laos	Master Plan	JICA (MEM, DEPP, DEEP)	2022-on going
	The Project for Upgrading Power Supply Management System for Mainstreaming of Clean Energy in the Mekong Region	Laos	Feasibility Study	JICA (EDL)	2024-on going
	The Project for Formulating Renewable Energy Road Map in Solomon Islands	Solomon	Master Plan	JICA (MMERE, SP)	2019-2021
	The Establishment of the Green Energy Zone in the Libarated Areas - Green Energy Zone Concept & Master Plan	Azerbaijan	Master Plan	Private Firm	2021
	Data collection survey for low carbonization / de-carbonization and stabilization of power system in Mongolia	Mongolia	Feasibility Study	JICA (MOE, ERC, NDC, NPTG, UBEDN)	2020-2022
Renewable Energy	JICA study for strategy and guiding policy on advancing low-carbon $\cdot$ carbon neutral society in developing countries	Global	Feasibility Study	JICA	2020-2022
	Operational Consulting Services for Supporting Resilient Mini-Grid Projects	Nepal	Feasibility Study Review	World Bank	2021-2023
	250MW Solar Power Project in Southwestern Area	Vietnam	Feasibility Study Review	Private Firm	2018
	Data collection survey on power sector in Espiritu Santo in Republic of Vanuatu	Vanuatu	Feasibility Study	JICA (DOE)	2016-2017
	Data Collection Survey for Promotion of Energy Transition in Mongolia	Mongolia	Feasibility Study	JICA	2024-on going

# Major Overseas Projects

Implementation Phase 
Basic Design / Detailed Design / Tender Document Preparation / Tender Assistance / Construction Management

Sector	Project	Country	Services	Client (Counterpart)	Duration
Thermal	The Project for the Development of Nacala Emergency Power Plant	Mozambique	Basic Design, Construction Management	EDM	2020-on going
	The Project for the Development of a 1,200MW (net) Coal Fired Thermal Power Project	Vietnam	Detailed Design, Construction Management	Private Firm	2020-on going
	Provision of Technical Consultancy Contract Services for the Engineering Procurement and Construction (EPC) Work	Indonesia	Construction Management	Private Firm	2019-on going
	Consulting Services for Design and Supervision of Matarbari Ultra Super Critical Coal-Fired Power Project	Bangladesh	Basic Design, Construction Management, Commissioning, Training	CPGCBL	2014-on going
	Maputo Gas Fired Combined Cycle Power Plant Development Project	Mozambique	Basic Design, Construction Management, Commissioning, Training	EDM	2014-on going
	Navoi Thermal Power Station Modernization Project	Uzbekistan	Basic Design, Construction Management, Commissioning, Training	Uzbekenergo	2014-2020
	Consulting Services for the Flue Gas Desulphurization Construction Project for Thermal Power Plant Nikola Tesla	Serbia	Construction Management, Commissioning, Training	Eleltroprivreda Srbije	2012-on going
	Turakurgan Thermal Power Station Construction Project	Uzbekistan	Basic Design, Construction Management, Commissioning, Training	Uzbekenergo	2015-2022
	The Project for a 600MW×2 Thermal Power Plant	Vietnam	Construction Management	Private Firm	2015-2022
	Al-Mussaib Thermal Power Plant Rehabilitation Project	Iraq	Basic Design, Construction Management, Commissioning, Training	MoE	2009-2021
	Shimal Gas Combined Cycle Power Plant Project (Second Unit)	Azerbaijan	Basic Design, Construction Management, Commissioning, Training	Azerenerji	2009-2019
	360MW - Bheramara Combined Cycle Power Plant Development Project	Bangladesh	Basic Design, Construction Management, Commissioning	NWPGCL	2011-2018
	Omon Thermal Power Plant Construction Project (Unit No.1: 300MW, Unit No.2: 330MW)	Vietnam	Basic Design, Construction Management, Commissioning, Training	EVN	2008-2017 1999-2000
	Basic Design for Vaporization Equipment Process of LNG receiving Terminal	Taiwan	Basic Design	Private Firm	2023-on going
	Basic Design of Hydroelectric Project in the Eastern Part of Nepal	Nepal	Basic Design	Private Firm	2019-2020
	Consultancy Services As Project Implementation (PIC) for the Hydro Electric Power Plant Project	Indonesia	FS Review, Detailed Design, Tender Assistance, Construction Management	Private Firm	2019-on going
	The Project for the Detailed Design of a 1,200MW (net) Pumped Storage Hydropower Project	Vietnam	Detailed Design	Private Firm	2021-2023
Hvdropower	Engineering Consultancy Services for 300MW Hydroelectric Project	Malaysia	Basic Design, Construction Management	Private Firm	2016-on going
	Consulting Services for the Project for Expansion on Tedzani Electricity Hydropower Station	Malawi	Detailed Design, Construction Management	EGENCO	2014-2022
	The Engineering Services for Peusangan 1 & 2 Hydroelectric Power Plant Construction Project	Indonesia	Construction Management	PLN	2009-on going
	Engineering Consultancy Services for the Pahang-Selangor Raw Water Transfer Project	Malaysia	Detailed Design Construction Management	Private Firm	2007-2019
	Advisory Consultancy Services for Hydropower Project	Vietnam	Detailed Design Technical Advisory	Private Firm	2014-2018
	345kV line for the power plant to the park in Taiwan - Cooling system design and consultant	Taiwan	Basic Design	Private Firm	2024-on going
	69kV Substation Project	Thailand	Detailed Design Advisory	Private Firm	2021-on going
	New Integrated Urban Public Transport Sysytem Introduction Project in Colombo	Sri Lanka	Basic Design, Tender Assistance, Construction Management	Private Firm	2019-on going
	Tender Assistance and Project Management of the Metropolitan Transmission System Improvement Project	Uganda	Basic Design, Tender Assistance, Construction Management	Private Firm	2019-on going
	Dhaka Underground Substation Construction Project at Gulshan	Bangladesh	Basic Design, Tender Assistance, Construction Management	DESCO	2019-on going
	Dhaka Underground Substation Construction Project at Kawranbazar	Bangladesh	Basic Design, Tender Assistance, Construction Management	DPDC	2019-on going
	Project Implementation for Urgent Rehabilitation and Upgrade Project (Phase1)	Myanmar	Basic Design, Tender Assistance, Construction Management	MEPE	2016-on going
Transmission	National Power Transmission Network Development Project Phase1	Myanmar	Basic Design, Tender Assistance, Construction Management	MEPE	2016-2023
& Distribution	Engineering and Construction Supervision of Dhaka-Chittagong Main Power Grid Strengthening Project	Bangladesh	Basic Design, Tender Assistance, Construction Management	PGCB	2016-2023
	Consultant Services for Electricity Distribution System Improvement Project	Egypt	Basic Design, Tender Assistance, Construction Management	EEHC	2016-on going
	Energy Control System Upgrading Project in Upper Egypt	Egypt	Basic Design, Tender Assistance, Construction Management	EETC	2010-2020
	Electricity Sector Reconstruction Project	Iraq	Detailed Design, Construction Management	MoE	2008-2018
	Greater Colombo Transmission & Distribution Loss Reduction Project	Sri Lanka	Basic Design, Tender Assistance, Construction Management	CEB	2014-2019
	Engineering Design and Construction Supervision for Southern Region Power System Development Project	Laos	Basic Design, Tender Assistance, Construction Management	EDL	2012-2016
	Submarine Cable Project in Langkawi	Malaysia	Basic Design, Tender Assistance,	Private Firm	2014-2016

Sector	Project	Country	Services	Client (Counterpart)	Duration
Transmission & Distribution	The Project for Strengthening Capacity of Power System Operation	Jordan	Detailed Design, Construction Management	National Electric Power Company the Hashemite Kingdom of Jordan	2023-on going
Renewable Energy	Advisory Consultancy Services for Solar Power Project in Southwestern Vietnam	Vietnam	Detailed Design Advisory, Construction Management Advisory	Private Firm	2018-2019

### Operation Phase O&M / Maintenace / Training / Technical Advisory / Technical Transfer

Sector	Project	Country	Services	Client (Counterpart)	Duration
Thermal	Experts for improving Operation and Maintenance of Maputo Gas Fired Combined Cycle Power Plant	Mozambique	O&M, Training	JICA	2020-2022
	Project Implementation Management Services for Electric Power Sector Capacity Development project (Phase 2)	Uzbekistan	O&M, Training	JSC Thermal Power Plants	2021-on going
	Expansion of the two 66MW Coal-fired Power Plants in Indonesia	Indonesia	O&M Monitoring	Private Firm	2007-on going
Hydropower	Power Sector Policy Advisor in Lao PDR	Laos	Advisory	JICA (MEM, DPC, DEPP)	2023-on going
	Project for Capacity Development of Power Transmission and Distribution Systems (Phase II)	Myanmar	Technology Transfer	JICA (MOEP)	2019-2023
Transmission & Distribution	The Project for Ensuring and Improving the Power System Stability for Greater Integration of Renewable Energy	Mongolia	Technology Transfer	JICA (MOE, NDC, NPTG, UBEDN)	2022-on going
	Capacity Development Project for Improvement of Maintenance of Distribution and Transmission Systems Phase 2	Tanzania	Technology Transfer	JICA (DOE, TANESCO)	2021-on going
	Project for Power Quality Improvement through Upgrading Grid Code and Strengthening its Enforcement System	Laos	Technology Transfer	JICA (MEM, EDL)	2021-on going
	The Project for Capacity Development of Power Transmission Systems	Kenya	Technology Transfer	JICA (MoE, KETRACO, KPLC)	2021-2024
	The Project for Enhancement of Operation and Management of Cambodian Transmission System	Cambodia	Technology Transfer	JICA (EDC, IES)	2017-2024
	The Advisor for Promotion of Private Sector Investment in Renewable Energy in Africa	Africa	Advisory	JICA (REA, MINEA, MME in Namibia, MME in Botswana)	2024-on going
	The Project for Low Carbon and Stable Supply at Power System in Tunisia	Tunisia	Technology Transfer	JICA (MIME, STEG)	2024-on going
	Biomass Power Generation Advisory	Vietnam	Technical Advisory	Private Firm	2023
Renewable Energy	The Project for Integration of Variable Renewable Energy into Electric Power Network System and Enhancing Supply Reliability	Jordan	Technology Transfer	JICA (MEMR, NEPCO, EMRC, JEPCO, IDECO, EDCO)	2019-2023

# Contacts

# **Head Office**

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# **Overseas Offices (as of July, 2024)**

#### **Taiwan Branch Office**

10F, No. 209, Section 1, Shimin Boulevard, Datong District, Taipei City, Taiwan 103

#### Jakarta Office

Summitmas Bldg. II 4F, Jl. Jenderal Sudirman kav 61-62, Jakarta 12190, Indonesia

### Malaysia Branch Office

No.08-03, 8F, PJ Tower, Amcorp Trade Center, 18 Jalan Persianran Barat,46050, Petaling Jaya, Selangor Darul Ehsan, Malaysia

#### Egypt Branch Office

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