

EVNPECC4

Trust Building

PRE-QUALIFICATION DOCUMENT

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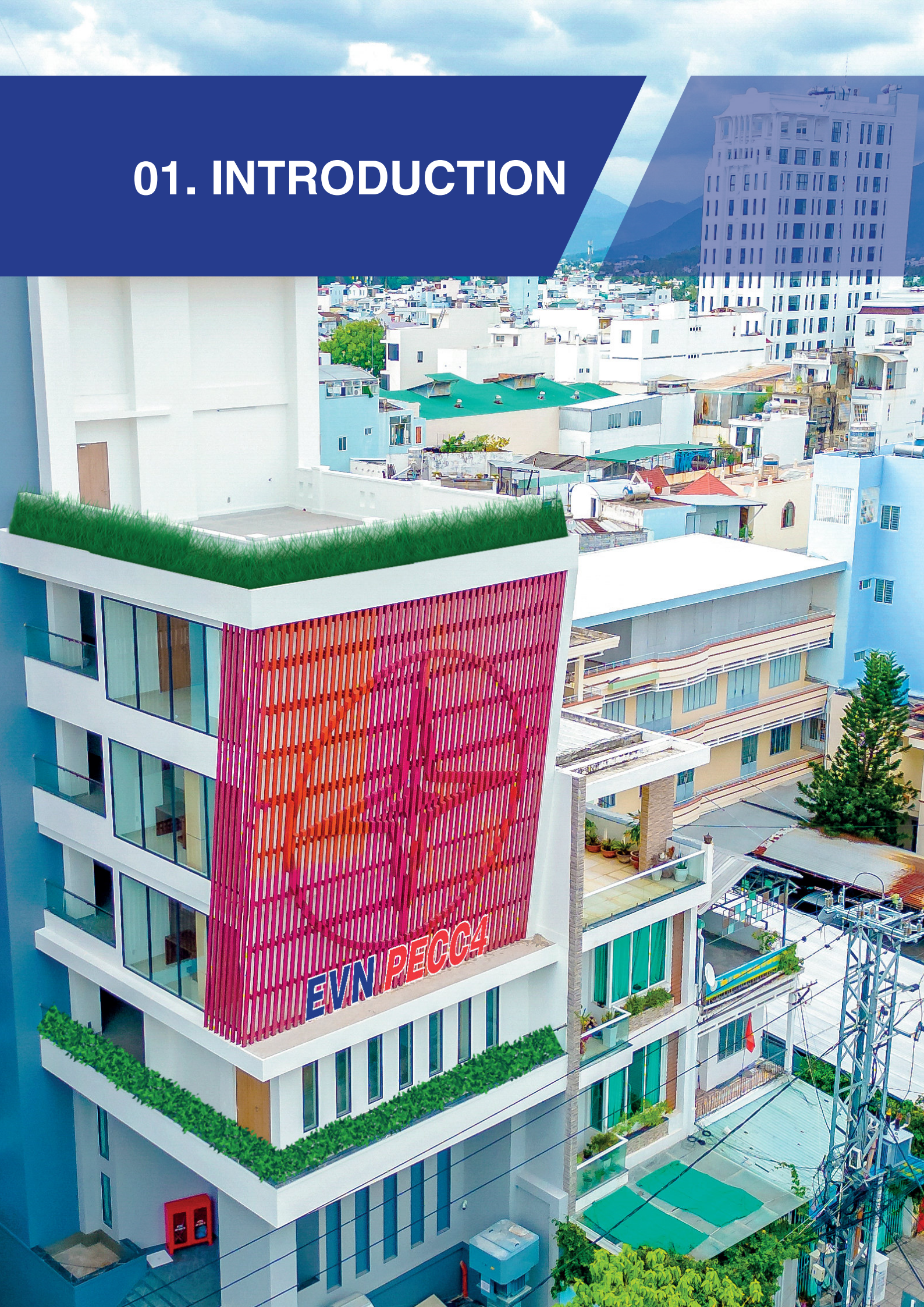
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01. INTRODUCTION



As one of the four power engineering consulting enterprises of Vietnam Electricity, EVNPECC4 has carried out survey, engineering for hundreds of power plants and power network projects nationwide and in neighboring countries such as Laos, Cambodia; significantly contributing to the construction and development of Vietnam electricity industry; satisfying the power needs for the country's socio-economic development.

KEY MILESTONES

Now

After 50 years of building and developing, EVNPECC4 has been growing exponentially in every aspect. EVNPECC4 has carried out survey, engineering for hundreds of power plants and power network projects nationwide and in the neighbouring countries such as Laos, Cambodia.

2007

From 2007 to the present, Power Engineering Consulting Company 4 was converted into Power Engineering Consulting Joint Stock Company 4 (EVNPECC4), with Vietnam Electricity holding the governing shares.

1999

On June 03rd 1999, the Ministry of Industry decided to establish Power Engineering Consulting Company 4, a subsidiary of Vietnam Electricity.

1976

Power Engineering Consulting Joint Stock Company 4 was founded on July 14th 1976, on the foundation of Southern Power Planning and Designing Sub-Institute, which was the first unit to perform the power network's survey and engineering in the Southern region of Vietnam.



HONORABLE TITLES



INDEPENDENCE ORDER
SECOND CLASS
2010



INDEPENDENCE ORDER
THIRD CLASS
2005



LABOR ORDER
FIRST CLASS
1996

In recognition of outstanding achievements over 45 years of establishment and development, EVNPECC4 has been honorably awarded noble rewards by the State, together with orders, emulation flags, certificate of merits by the Government, the Ministry of Industry and Trade, the People's Committee of Khanh Hoa Province and Vietnam Electricity, particularly:

Independence Order

SECOND & THIRD

Labor Order

FIRST & SECOND

Certificate of merits for typical projects:

+ Buon Tua Srah Hydropower project: awarded by the Prime Minister (Decision No. 90/QĐ-TTg dated January 15th, 2011);

+ 500kV North-South T/L double circuit (Ha Tinh - Nho Quan section): awarded by the Ministry of Industry (Decision No. 1346/QĐ-BCN dated May 23rd, 2006);

+ National power supply by submarine cable system through the sea to Ly Son island: awarded by the Ministry of Industry and Trade;

+ 500kV Pleiku - My Phuoc - Cau Bong transmission line: awarded by the Ministry of Industry and Trade (Decision No. 4001/QĐ-BCT dated May 8th, 2014);

+ 500kV Dak Nong substation: awarded by Vietnam Electricity

+ 110kV Dong Ha - Lao Bao transmission line and substation: awarded by Vietnam Electricity (Decision No. 1025/QĐ-EVN-TĐTT dated April 23rd, 2003);

+ Upgrading capacity of 500kV Pleiku substation: awarded by Vietnam Electricity (Decision No. 1355/QĐ-EVN dated December 24th, 2009).

OPERATING FIELDS

- CONSTRUCTION ENGINEERING SURVEY AND INVESTIGATION
- PLANNING, PRE-FEASIBILITY STUDY, FEASIBILITY STUDY AND ENGINEERING OF CONSTRUCTION WORKS
- EPC CONTRACTING SERVICES
- ENVIRONMENTAL SUPERVISING AND MONITORING CONSULTANCY
- CONSTRUCTION SUPERVISION OF POWER AND CIVIL WORKS
- INSPECTION ON QUALITY OF PROJECTS
- IN-HOUSE AND ON-SITE LABORATORY AND EXPERIMENTS FOR CONSTRUCTION WORKS
- CONSTRUCTION PROJECTS MANAGEMENT
- REPAIR, MAINTENANCE AND RENOVATION OF POWER PLANTS
- INVESTMENT



HEADQUARTERS AND BRANCHES

Headquarters

11 Hoang Hoa Tham Street, Nha Trang Ward, Khanh Hoa Province

Telephone: (84-258) 3563 999 - Fax: (84-258) 3563 888

Website: www.pecc4.vn - E-mail: tv4@pecc4.vn

Branch Offices

1. Northern Affiliate:

Block No. 3, TT4, Alley 183, Hoang Van Thai Street, Phuong Liet Ward, Hanoi

2. Power Source Engineering Centre:

No. 38 Le Thanh Phuong Street, West Nha Trang Ward, Khanh Hoa Province

3. Survey Centre:

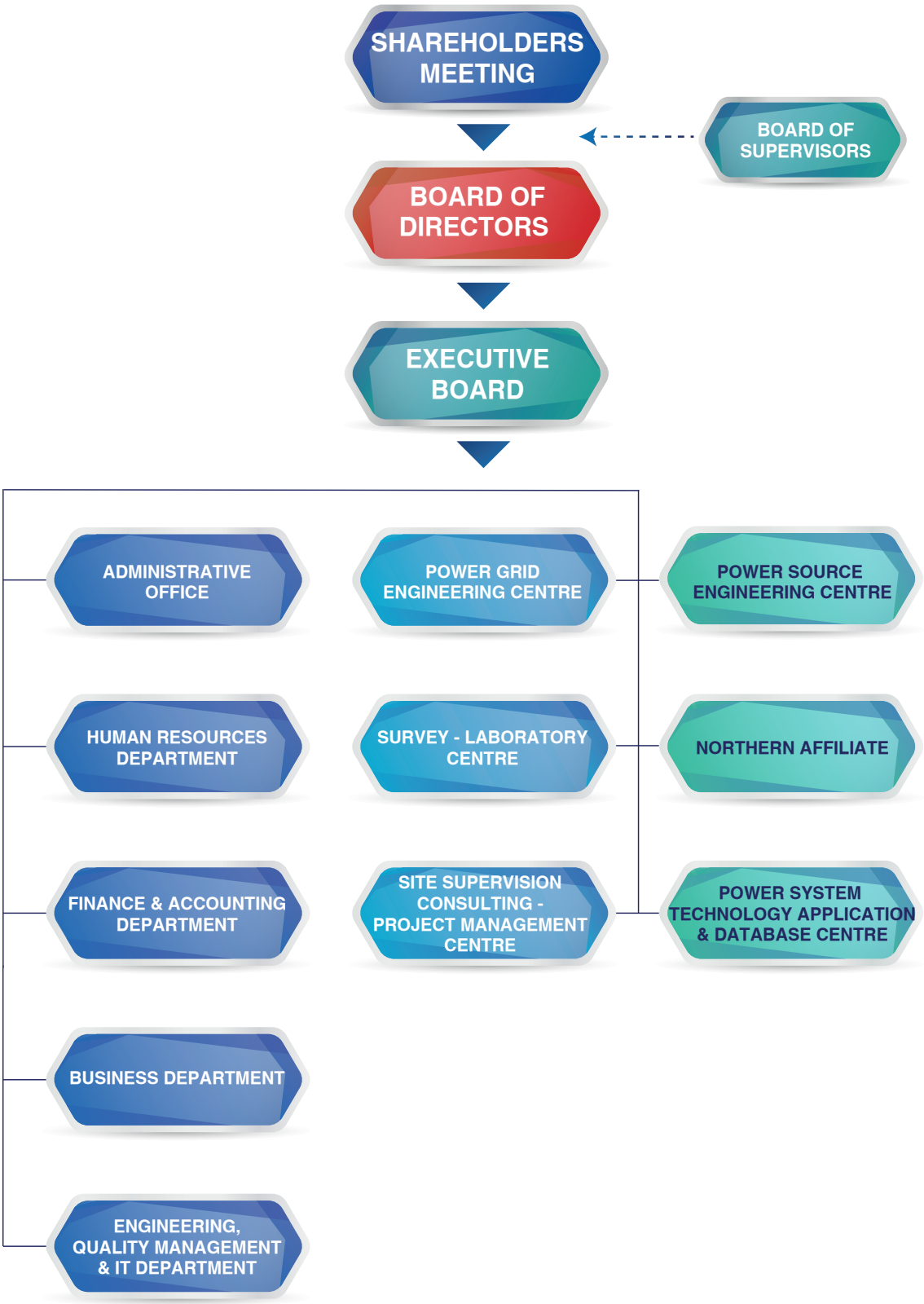
No. 137 Thong Nhat Street, Nha Trang Ward, Khanh Hoa Province

4. Civil Engineering Testing Laboratory:

Group 4, Vo Dong Village, West Nha Trang Ward, Khanh Hoa Province

Lab Code: LAS-XD31.001

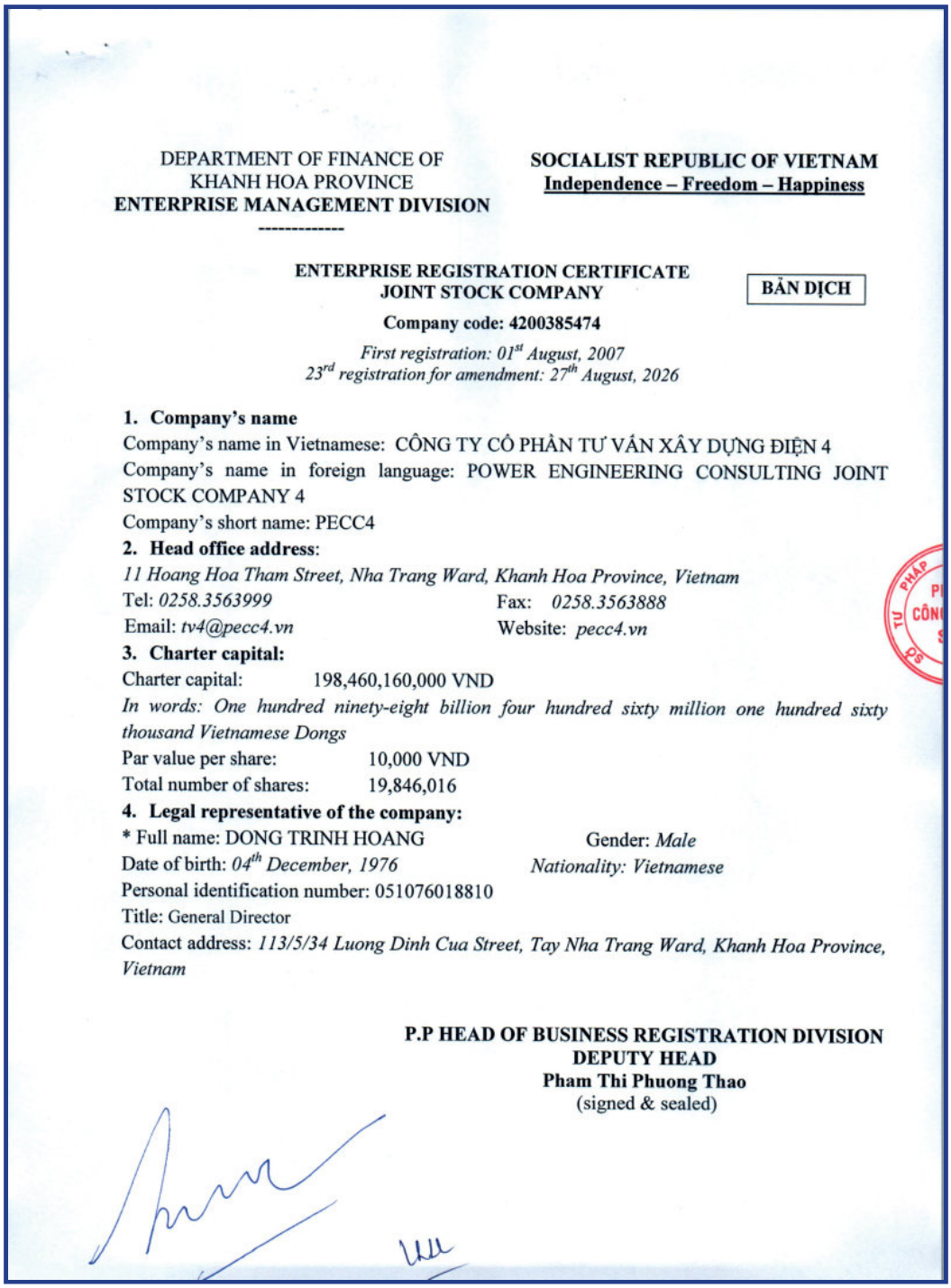
ORGANIZATIONAL CHART



LEGAL DOCUMENTS

BUSINESS REGISTRATION CERTIFICATE NO. 4200385474

ISSUED BY THE KHANH HOA FINANCE DEPARTMENT



DEPARTMENT OF FINANCE OF
KHANH HOA PROVINCE
ENTERPRISE MANAGEMENT DIVISION

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom – Happiness

ENTERPRISE REGISTRATION CERTIFICATE
JOINT STOCK COMPANY

BẢN DỊCH

Company code: 4200385474

First registration: 01st August, 2007
23rd registration for amendment: 27th August, 2026

1. Company's name
Company's name in Vietnamese: CÔNG TY CỔ PHẦN TƯ VẤN XÂY DỰNG ĐIỆN 4
Company's name in foreign language: POWER ENGINEERING CONSULTING JOINT STOCK COMPANY 4
Company's short name: PECC4

2. Head office address:
11 Hoang Hoa Tham Street, Nha Trang Ward, Khanh Hoa Province, Vietnam
Tel: *0258.3563999* Fax: *0258.3563888*
Email: *tv4@pecc4.vn* Website: *pecc4.vn*

3. Charter capital:
Charter capital: 198,460,160,000 VND
In words: One hundred ninety-eight billion four hundred sixty million one hundred sixty thousand Vietnamese Dongs
Par value per share: 10,000 VND
Total number of shares: 19,846,016

4. Legal representative of the company:
* Full name: DONG TRINH HOANG Gender: *Male*
Date of birth: *04th December, 1976* *Nationality: Vietnamese*
Personal identification number: 051076018810
Title: General Director
Contact address: *113/5/34 Luong Dinh Cua Street, Tay Nha Trang Ward, Khanh Hoa Province, Vietnam*

P.P HEAD OF BUSINESS REGISTRATION DIVISION
DEPUTY HEAD
Pham Thi Phuong Thao
(signed & sealed)

ELECTRICITY LICENSE NO. 08/GP-ĐTĐL DATED JANUARY 19TH, 2024 ISSUED BY THE MINISTRY OF INDUSTRY AND TRADE

MINISTRY OF INDUSTRY AND TRADE
ELECTRICITY REGULATORY AUTHORITY

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom – Happiness

Number: 08/GP-DTDL

Hanoi, January 19th 2024

ELECTRICITY LICENSE

BẢN DỊCH

DIRECTOR OF ELECTRICITY REGULATORY AUTHORITY

Pursuant to Decision number 2630/QD-BCT dated December 02, 2022 of the Minister of Ministry of Industry and Trade on functions, tasks, powers and organizational structure of electricity regulatory authority;

Pursuant to the Electricity law dated December 03, 2004; Law amending and supplementing a number of articles of the Electricity law dated 20 November, 2012;

Pursuant to Decree number 137/2013/ND-CP dated October 21, 2013 of the Government detailing implementation of a number of articles of the Electricity law and the Law on amending and supplementing a number of articles of the Electricity law;

Pursuant to Decree 08/2018/ND-CP dated January 15, 2018 of the Government on amendments to certain Decrees related to business conditions under state management of the Ministry of Industry and Trade;

Pursuant to Decree 17/2020/ND-CP dated February 05, 2020 of the Government on amendments to certain Decrees related to business conditions under state management of the Ministry of Industry and Trade;

Pursuant to Circular number 21/2020/TT-BTC dated September 09, 2020 of the Minister of Ministry of Industry and Trade on procedures for issuance of electricity licenses;

Pursuant to Circular number 10/2023/TT-BTC dated April 21, 2023 of the Minister of Ministry of Industry and Trade on amendments to some articles of Circular number 21/2020/TT-BTC dated September 09, 2020 of the Minister of Ministry of Industry and Trade on procedures for issuance of electricity licenses;

Review the application for the issuance of an electricity operation license submitted by Power Engineering Consulting Joint Stock Company 4;

Pursuant to the proposal of the Head of Licensing and Public Relations Department.

HEREBY DECIDES

Article 1. Granting an electricity operation license to:

1. Organization's Name: **Power Engineering Consulting Joint Stock Company 4;**

2. Certificate of Business registration of the joint-stock company issued by the Business Registration Office - Khanh Hoa Department of Planning and Investment, enterprise code 4200385474, initially registered on August 1, 2007, with the 20th amendment registered on June 26, 2023.

3. Headquarter: Number 11 Hoang Hoa Tham, Loc Tho Ward, Nha Trang City, Khanh Hoa Province;

Phone number: 0258 3563999; Fax: 0258 3824208; Email: tv4@pecc4.vn

Article 2. Scope of Activities:

1. Consultancy and design for hydroelectric power plant projects without limitations on installed capacity;

2. Consultancy and design for wind power plant projects without limitations on installed capacity;

LEGAL DOCUMENTS

ELECTRICITY LICENSE NO. 08/GP-ĐTĐL DATED JANUARY 19TH, 2024 ISSUED BY THE MINISTRY OF INDUSTRY AND TRADE

3. Consultancy and design for solar power plant projects without limitations on installed capacity;

4. Consultancy and design for thermal power plant projects without limitations on installed capacity;

5. Consultancy and design for power lines and substations without limitations on voltage level;

6. Supervision consultancy for the construction of hydroelectric power plants with an installed capacity of up to 300MW;

7. Supervision consultancy for the construction of wind power plants with an installed capacity of up to 100MW;

8. Supervision consultancy for the construction of solar power plants without limitations on installed capacity;

9. Supervision consultancy for the construction of thermal power plants without limitations on installed capacity;

10. Supervision consultancy for the construction of power lines and substations without limitations on voltage level.

Article 3. Scope and Duration of Activities

1. Scope of activities: Nationwide.

2. License duration: Until January 18, 2029.

Article 4. Rights of the electricity unit granted by the license

1. Power Engineering Consulting Joint Stock Company 4 is allowed to operate within the scope and activities specified in the electricity operation license.

2. Power Engineering Consulting Joint Stock Company 4 has rights as stipulated in Article 45 of the Electricity Law, the Law amending and supplementing some articles of the Electricity Law, and other rights as specified by law.

Article 5. Obligations of the electricity unit granted by the license

1. Power Engineering Consulting Joint Stock Company 4 is obligated to commence its electricity operation activities no later than 6 months from the date of being granted the electricity operation license.

2. Power Engineering Consulting Joint Stock Company 4 is obligated to ensure compliance with electricity operation conditions as stipulated by the law throughout its operational period.

3. Power Engineering Consulting Joint Stock Company 4 is not permitted to lease, borrow, or independently modify the electricity operation license.

4. Power Engineering Consulting Joint Stock Company 4 is obligated to adhere to the reporting regime as specified by regulations.

5. Power Engineering Consulting Joint Stock Company 4 is obligated to comply with the provisions of Article 45 of the Electricity Law, the Law amending and supplementing some articles of the Electricity Law, and other rights as specified by law.

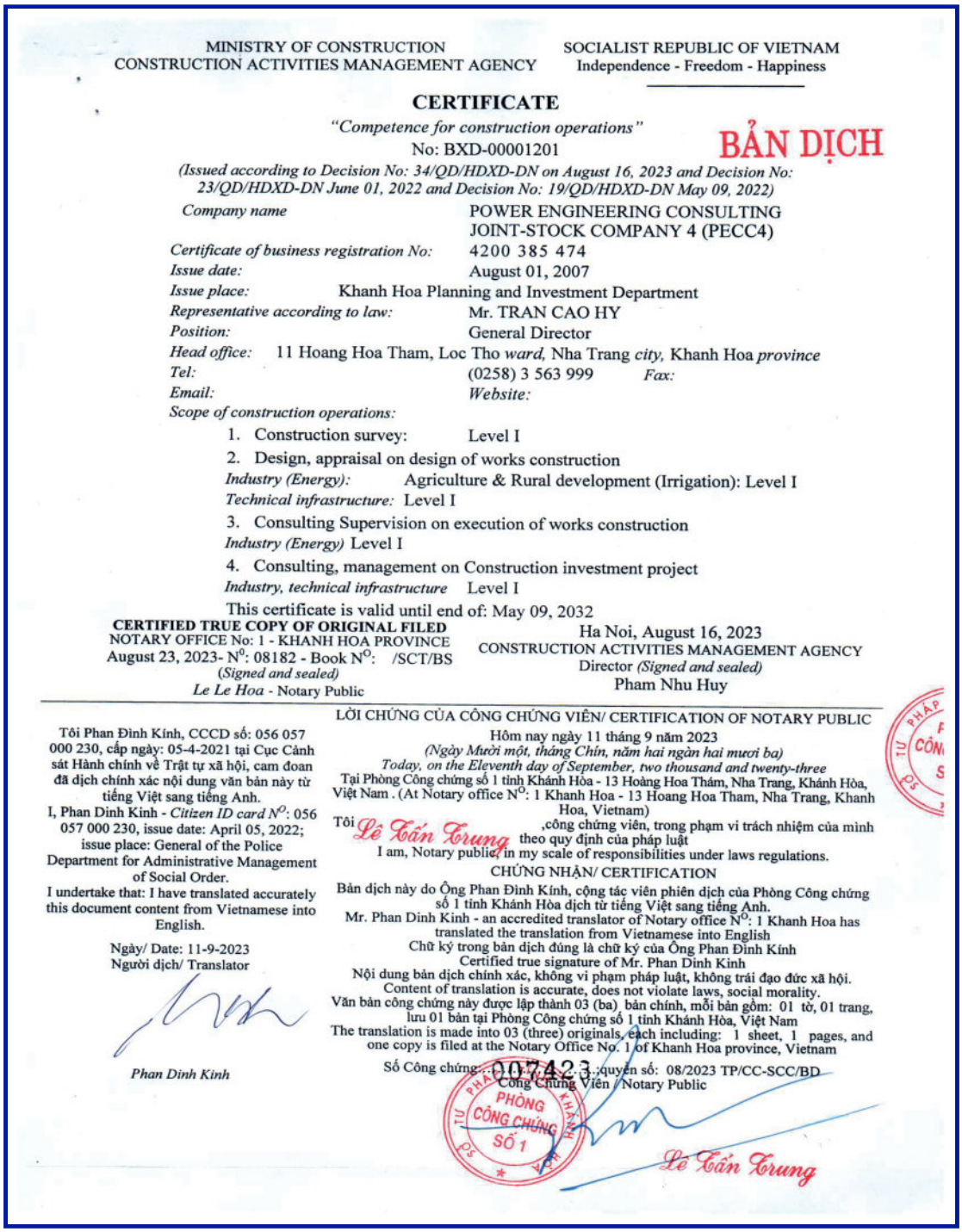
Article 6. Enforcement Effectiveness:

This electricity operation license is effective from the date of signing.

P.P. DIRECTOR
VICE DIRECTOR
(signed and sealed)
Nguyen The Huu

LEGAL DOCUMENTS

CERTIFICATE OF COMPETENCE FOR CONSTRUCTION OPERATIONS – GRADE I, NO. BXD-00001201 DATED 16TH AUGUST, 2023 ISSUED BY THE MINISTRY OF CONSTRUCTION



MINISTRY OF CONSTRUCTION
CONSTRUCTION ACTIVITIES MANAGEMENT AGENCY

SOCIALIST REPUBLIC OF VIETNAM
Independence - Freedom - Happiness

CERTIFICATE

"Competence for construction operations"

No: BXD-00001201

BẢN DỊCH

(Issued according to Decision No: 34/QD/HDXD-DN on August 16, 2023 and Decision No: 23/QD/HDXD-DN June 01, 2022 and Decision No: 19/QD/HDXD-DN May 09, 2022)

Company name: POWER ENGINEERING CONSULTING JOINT-STOCK COMPANY 4 (PECC4)
Certificate of business registration No: 4200 385 474
Issue date: August 01, 2007
Issue place: Khanh Hoa Planning and Investment Department
Representative according to law: Mr. TRAN CAO HY
Position: General Director
Head office: 11 Hoang Hoa Tham, Loc Tho *ward*, Nha Trang *city*, Khanh Hoa *province*
Tel: (0258) 3 563 999 *Fax:*
Email: *Website:*
Scope of construction operations:

1. Construction survey: Level I
2. Design, appraisal on design of works construction
   Industry (Energy): Agriculture & Rural development (Irrigation): Level I
   Technical infrastructure: Level I
3. Consulting Supervision on execution of works construction
   Industry (Energy) Level I
4. Consulting, management on Construction investment project
   Industry, technical infrastructure Level I

This certificate is valid until end of: May 09, 2032

CERTIFIED TRUE COPY OF ORIGINAL FILED
NOTARY OFFICE No: 1 - KHANH HOA PROVINCE
August 23, 2023- N°: 08182 - Book N°: /SCT/BS
(Signed and sealed)
Le Le Hoa - Notary Public

Ha Noi, August 16, 2023
CONSTRUCTION ACTIVITIES MANAGEMENT AGENCY
Director *(Signed and sealed)*
Pham Nhu Huy

Tôi Phan Đình Kính, CCCD số: 056 057 000 230, cấp ngày: 05-4-2021 tại Cục Cảnh sát Hành chính về Trật tự xã hội, cam đoan đã dịch chính xác nội dung văn bản này từ tiếng Việt sang tiếng Anh.
I, Phan Dinh Kinh - *Citizen ID card N°*: 056 057 000 230, issue date: April 05, 2022; issue place: General of the Police Department for Administrative Management of Social Order.
I undertake that: I have translated accurately this document content from Vietnamese into English.

Ngày/ Date: 11-9-2023
Người dịch/ Translator

Phan Dinh Kinh

LỜI CHỨNG CỦA CÔNG CHỨNG VIÊN/ CERTIFICATION OF NOTARY PUBLIC

Hôm nay ngày 11 tháng 9 năm 2023
(Ngày Mười một, tháng Chín, năm hai ngàn hai mươi ba)
Today, on the Eleventh day of September, two thousand and twenty-three
Tại Phòng Công chứng số 1 tỉnh Khánh Hòa - 13 Hoàng Hoa Thám, Nha Trang, Khánh Hòa, Việt Nam . (At Notary office N°: 1 Khanh Hoa - 13 Hoang Hoa Tham, Nha Trang, Khanh Hoa, Vietnam)
Tôi Lê Tấn Trung ,công chứng viên, trong phạm vi trách nhiệm của mình theo quy định của pháp luật
I am, Notary public, in my scale of responsibilities under laws regulations.

CHỨNG NHẬN/ CERTIFICATION

Bản dịch này do Ông Phan Đình Kính, cộng tác viên phiên dịch của Phòng Công chứng số 1 tỉnh Khánh Hòa dịch từ tiếng Việt sang tiếng Anh.
Mr. Phan Dinh Kinh - an accredited translator of Notary office N°: 1 Khanh Hoa has translated the translation from Vietnamese into English
Chữ ký trong bản dịch đúng là chữ ký của Ông Phan Đình Kính
Certified true signature of Mr. Phan Dinh Kinh
Nội dung bản dịch chính xác, không vi phạm pháp luật, không trái đạo đức xã hội.
Content of translation is accurate, does not violate laws, social morality.
Văn bản công chứng này được lập thành 03 (ba) bản chính, mỗi bản gồm: 01 tờ, 01 trang, lưu 01 bản tại Phòng Công chứng số 1 tỉnh Khánh Hòa, Việt Nam
The translation is made into 03 (three) originals, each including: 1 sheet, 1 pages, and one copy is filed at the Notary Office No. 1 of Khanh Hoa province, Vietnam

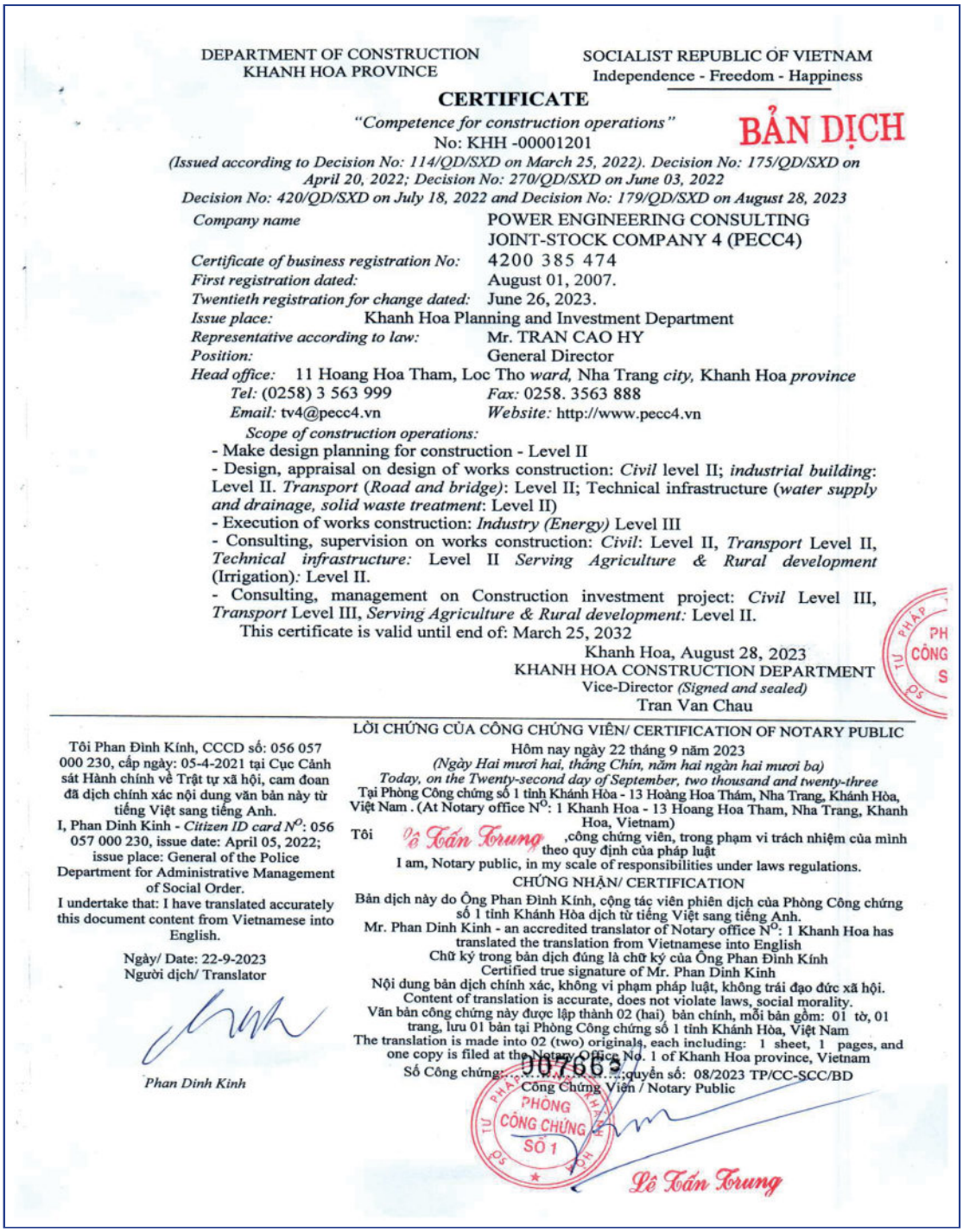
Số Công chứng: 007423 ;quyển số: 08/2023 TP/CC-SCC/BD
Công Chứng Viên / Notary Public

PHÒNG CÔNG CHỨNG SỐ 1

Lê Tấn Trung

LEGAL DOCUMENTS

CERTIFICATE OF COMPETENCE FOR CONSTRUCTION OPERATIONS - GRADE II & III, NO. KHH-00001201 DATED 28TH AUGUST, 2023 ISSUED BY THE DEPARTMENT OF CONSTRUCTION - KHANH HOA PROVINCE



DEPARTMENT OF CONSTRUCTION
KHANH HOA PROVINCE

SOCIALIST REPUBLIC OF VIETNAM
Independence - Freedom - Happiness

CERTIFICATE

"Competence for construction operations"

BẢN DỊCH

No: KHH -00001201

(Issued according to Decision No: 114/QD/SXD on March 25, 2022). Decision No: 175/QD/SXD on April 20, 2022; Decision No: 270/QD/SXD on June 03, 2022 Decision No: 420/QD/SXD on July 18, 2022 and Decision No: 179/QD/SXD on August 28, 2023

Company name POWER ENGINEERING CONSULTING JOINT-STOCK COMPANY 4 (PECC4)

Certificate of business registration No: 4200 385 474

First registration dated: August 01, 2007.

Twentieth registration for change dated: June 26, 2023.

Issue place: Khanh Hoa Planning and Investment Department

Representative according to law: Mr. TRAN CAO HY

Position: General Director

Head office: 11 Hoang Hoa Tham, Loc Tho *ward,* Nha Trang *city,* Khanh Hoa *province*

Tel: (0258) 3 563 999 *Fax:* 0258. 3563 888

Email: tv4@pecc4.vn *Website:* http://www.pecc4.vn

Scope of construction operations:

- Make design planning for construction - Level II
- Design, appraisal on design of works construction: *Civil* level II; *industrial building*: Level II. *Transport* (*Road and bridge*): Level II; Technical infrastructure (*water supply and drainage, solid waste treatment*: Level II)
- Execution of works construction: *Industry (Energy)* Level III
- Consulting, supervision on works construction: *Civil*: Level II, *Transport* Level II, *Technical infrastructure:* Level II *Serving Agriculture & Rural development* (Irrigation)*:* Level II.
- Consulting, management on Construction investment project: *Civil* Level III, *Transport* Level III, *Serving Agriculture & Rural development:* Level II.

This certificate is valid until end of: March 25, 2032

Khanh Hoa, August 28, 2023
KHANH HOA CONSTRUCTION DEPARTMENT
Vice-Director *(Signed and sealed)*
Tran Van Chau

Tôi Phan Đình Kính, CCCD số: 056 057 000 230, cấp ngày: 05-4-2021 tại Cục Cảnh sát Hành chính về Trật tự xã hội, cam đoan đã dịch chính xác nội dung văn bản này từ tiếng Việt sang tiếng Anh.
I, Phan Dinh Kinh - *Citizen ID card N°*: 056 057 000 230, issue date: April 05, 2022; issue place: General of the Police Department for Administrative Management of Social Order.
I undertake that: I have translated accurately this document content from Vietnamese into English.

Ngày/ Date: 22-9-2023
Người dịch/ Translator

Phan Dinh Kinh

LỜI CHỨNG CỦA CÔNG CHỨNG VIÊN/ CERTIFICATION OF NOTARY PUBLIC

Hôm nay ngày 22 tháng 9 năm 2023
(Ngày Hai mươi hai, tháng Chín, năm hai ngàn hai mươi ba)
Today, on the Twenty-second day of September, two thousand and twenty-three
Tại Phòng Công chứng số 1 tỉnh Khánh Hòa - 13 Hoàng Hoa Thám, Nha Trang, Khánh Hòa, Việt Nam . (At Notary office N°: 1 Khanh Hoa - 13 Hoang Hoa Tham, Nha Trang, Khanh Hoa, Vietnam)

Tôi Lê Tấn Trung ,công chứng viên, trong phạm vi trách nhiệm của mình theo quy định của pháp luật
I am, Notary public, in my scale of responsibilities under laws regulations.

CHỨNG NHẬN/ CERTIFICATION

Bản dịch này do Ông Phan Đình Kính, cộng tác viên phiên dịch của Phòng Công chứng số 1 tỉnh Khánh Hòa dịch từ tiếng Việt sang tiếng Anh.
Mr. Phan Dinh Kinh - an accredited translator of Notary office N°: 1 Khanh Hoa has translated the translation from Vietnamese into English
Chữ ký trong bản dịch đúng là chữ ký của Ông Phan Đình Kính
Certified true signature of Mr. Phan Dinh Kinh
Nội dung bản dịch chính xác, không vi phạm pháp luật, không trái đạo đức xã hội.
Content of translation is accurate, does not violate laws, social morality.
Văn bản công chứng này được lập thành 02 (hai) bản chính, mỗi bản gồm: 01 tờ, 01 trang, lưu 01 bản tại Phòng Công chứng số 1 tỉnh Khánh Hòa, Việt Nam
The translation is made into 02 (two) originals, each including: 1 sheet, 1 pages, and one copy is filed at the Notary Office No. 1 of Khanh Hoa province, Vietnam
Số Công chứng: 007665 ;quyển số: 08/2023 TP/CC-SCC/BD
Công Chứng Viên / Notary Public

PHÒNG CÔNG CHỨNG SỐ 1

Lê Tấn Trung

- Information on construction capacity of EVNPECC4 was successfully uploaded on the website of the Ministry of Construction at https://nangluchdxd.gov.vn

- EVNPECC4 was successfully registered in the National Online Procurement Network System (https://muasamcong.mpi.gov.vn)

CERTIFICATE OF "MET ALL CONDITIONS ON BUSINESS OF FIRE PREVENTION AND FIRE FIGHTING SERVICES" NO: 38/GXN-PCCC ISSUED BY POLICE DIVISION FOR FIRE PREVENTION & FIRE FIGHTING AND RESCUE & SALVAGE, POLICE OF KHANH HOA PROVINCE ON 30TH JUNE 2023

BẢN DỊCH

POLICE OF KHANH HOA PROVINCE
POLICE DIVISION FOR FIRE PREVENTION & FIRE FIGHTING AND RESCUE & SALVAGE

SOCIALIST REPUBLIC OF VIETNAM
Independence - Freedom - Happiness

N°: 38 /GXN-PCCC

CERTIFICATE

"Met all conditions on business of Fire Prevention and Fire Fighting services"

Pursuant to Decree N°: 136/2020/ND-CP dated November 24, 2020 of the Government regulating in details some conditions and measures on implementation of Laws on Fire Prevention and Fire Fighting and law on amended some conditions of Laws on Fire Prevention and Fire Fighting.

Based on check result on proposal dossiers of met all conditions on business of Fire Prevention and Fire Fighting services for the company.

Consider proposal of Power Engineering Consulting Joint-Stock Company 4

POLICE DIVISION FOR FIRE PREVENTION & FIRE FIGHTING AND RESCUE & SALVAGE

IT HEREBY TO CERTIFY

POWER ENGINEERING CONSULTING JOINT-STOCK COMPANY 4

Certificate of Business registration N°: 4200 385 474 ISSUED by the Department of Planning and Investment - Khanh Hoa province on: *August 01, 2007.*

Head office:	11 Hoang Hoa Tham, Loc Tho *ward* Nha Trang *city,* Khanh Hoa *province,* Vietnam
Full name:	TRAN CAO HY
Position:	General Director
ID card N°:	052 076 019 616
Place of issue:	General of the Police Department for Administrative Management of Social Order.
Permanent residence:	STH27.36, Road 14A Le Hong Phong II Urban area, Phuoc Hai *ward,* Nha Trang *City,* Khanh Hoa *province,*

Has met all conditions on business of Fire Prevention and Fire Fighting services (enclosed items)

Khanh Hoa, June 30, 2023
POLICE DIVISION FOR FIRE PREVENTION & FIRE FIGHTING AND RESCUE & SALVAGE
Deputy-Chief
(Signed and sealed)
Ho Chi Thanh

LEGAL DOCUMENTS

CERTIFICATE NO. 434/GCN-SXD OF ELIGIBILITY FOR SPECIALIZED EXPERIMENTAL ACTIVITIES IN THE CONSTRUCTION INDUSTRY ISSUED BY DEPARTMENT OF CONSTRUCTION OF KHANH HOA PROVINCE (LAS-XD 31.001) ON 31ST JANUARY, 2024

PEOPLE'S COMMITTEE OF KHANH HOA PROVINCE
DEPARTMENT OF CONSTRUCTION
Number: 434/GCN-SXD

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom – Happiness
Khanh Hoa, 31st January 2024

CERTIFICATE OF ELIGIBILITY FOR SPECIALIZED EXPERIMENTAL ACTIVITIES IN THE CONSTRUCTION INDUSTRY

BẢN DỊCH
COPY

Pursuant to Decision number 49/2023/QD-UBND dated 29th December 2023 of People's Committee of the province on roles, responsibilities and authorities of Department of Construction;

Pursuant to Decree number 62/2016/ND-CP dated 01/7/2016 of the Government about regulations on requirements of judicial expertise in construction and construction experiments;

Pursuant to Decree number 35/2023/ND-CP dated 20th June 2023 of the Government amending some articles of Decrees in field of state management of the Ministry of Construction;

Pursuant to Circular number 06/2017/TT-BXD dated 25th April 2017 of the Minister of Constructio, guide specialized experimental activities in the construction industry;

Reviewing the application for supplementary registration and modification of the Certificate of Eligibility for Specialized Experimental Activities in the Construction Industry of Power Engineering Consulting Joint Stock Company 4; Minutes of assessment dated 21st November 2023, and Report No. 3641/TVD4-P7 dated 26th December 2023 by Power Engineering Consulting Joint Stock Company 4.

HEREBY CERTIFIES:

1. Power Engineering Consulting Joint Stock Company 4.

Business registration certificate (Investment certificate) number: 4200385474 dated 01st August 2007; 20thamendment on 26th June 2023 by Business Registration division of Department of Planning and Investment of Khanh Hoa Province.

Address: 11 Hoang Hoa Tham Street, Loc Tho ward, Nha Trang city, Khanh Hoa province.

Phone number: 0258.3563.999 Fax: 0258.3563.888 Email: tv4@pecc4.vn

Laboratory name: **Construction Specialty Laboratory**

Address: Group 4, Vo Dong Hamlet, Vinh Trung commune, Nha Trang city, Khanh Hoa province.

Eligible for specialized experimental activities in the construction industry with the specified testing criteria listed in the accompanying schedule to this Certificate.

3. This certificate is valid for 5 years from 19th June 2023, and replaces Certificate No. 224/GCN-BXD dated 19th June 2023.

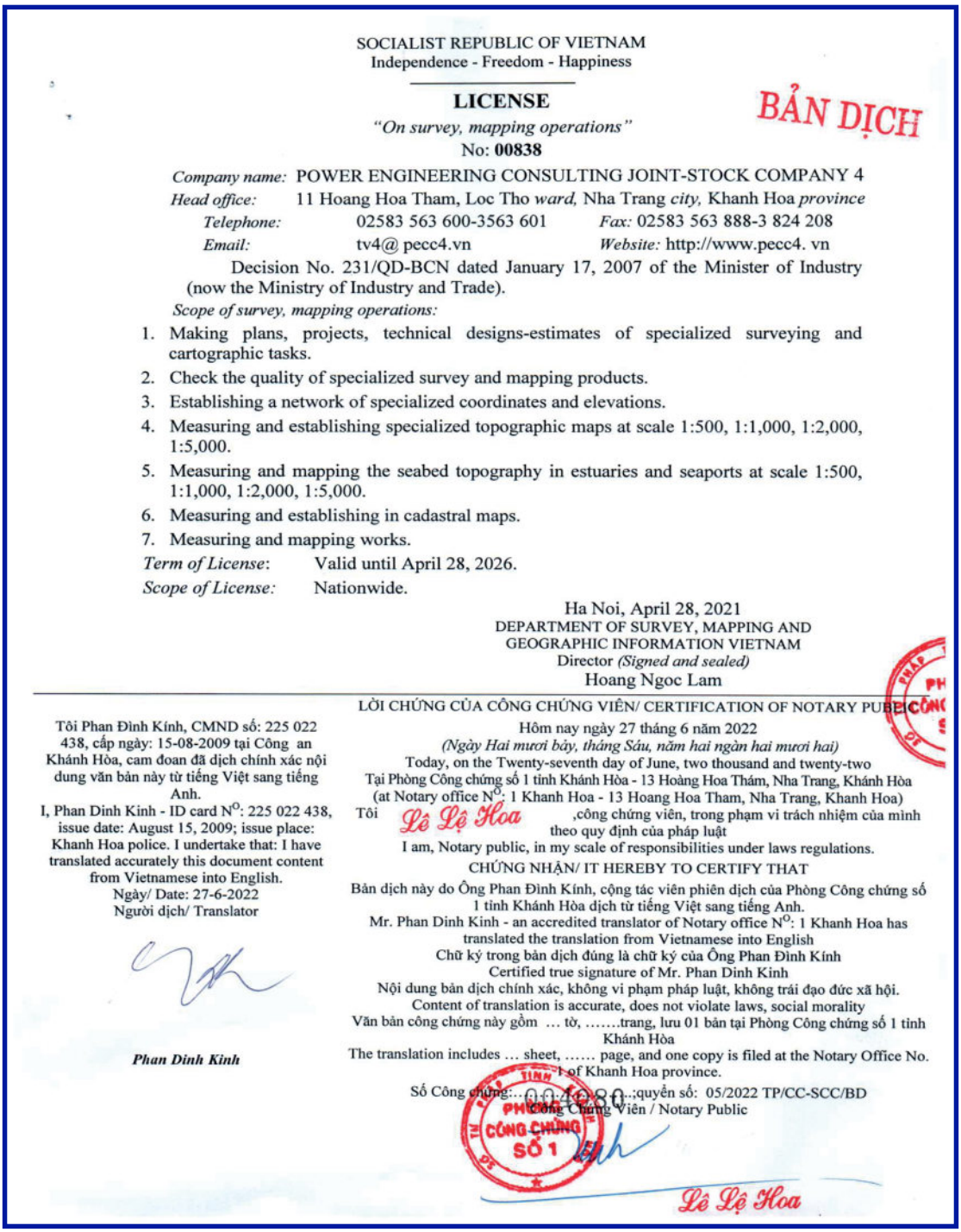
Recipients:
- Power Engineering Consulting Joint Stock Company 4;
- Ministry of Construction (to report);
- Director and Vice Director(s) of Department of Construction;
- Electronic website of Ministry of Construction (to announce);
- Filed: VT, QLXD S. Ha.

P.P. DIRECTOR
VICE DIRECTOR
(signed and sealed)
Nguyen Ngoc Minh

CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL
No. **001125** Book No., SCT/BS
Date: **06th February, 2024**
Notary Public Office No.1 of Khanh Hoa province
Notary public
Le Tan Trung
(signed and sealed)

LEGAL DOCUMENTS

LICENSE ON SURVEY, MAPPING OPERATIONS NO. 00838 ISSUED BY DEPARTMENT OF SURVEY, MAPPING AND GEOGRAPHIC INFORMATION VIETNAM ON 28TH APRIL, 2021



SOCIALIST REPUBLIC OF VIETNAM
Independence - Freedom - Happiness

LICENSE

"On survey, mapping operations"

No: **00838**

BẢN DỊCH

Company name: POWER ENGINEERING CONSULTING JOINT-STOCK COMPANY 4
Head office: 11 Hoang Hoa Tham, Loc Tho *ward,* Nha Trang *city,* Khanh Hoa *province*
Telephone: 02583 563 600-3563 601 *Fax:* 02583 563 888-3 824 208
Email: tv4@ pecc4.vn *Website:* http://www.pecc4. vn

Decision No. 231/QD-BCN dated January 17, 2007 of the Minister of Industry (now the Ministry of Industry and Trade).

Scope of survey, mapping operations:

1. Making plans, projects, technical designs-estimates of specialized surveying and cartographic tasks.
2. Check the quality of specialized survey and mapping products.
3. Establishing a network of specialized coordinates and elevations.
4. Measuring and establishing specialized topographic maps at scale 1:500, 1:1,000, 1:2,000, 1:5,000.
5. Measuring and mapping the seabed topography in estuaries and seaports at scale 1:500, 1:1,000, 1:2,000, 1:5,000.
6. Measuring and establishing in cadastral maps.
7. Measuring and mapping works.

Term of License: Valid until April 28, 2026.
Scope of License: Nationwide.

Ha Noi, April 28, 2021
DEPARTMENT OF SURVEY, MAPPING AND GEOGRAPHIC INFORMATION VIETNAM
Director *(Signed and sealed)*
Hoang Ngoc Lam

Tôi Phan Đình Kính, CMND số: 225 022 438, cấp ngày: 15-08-2009 tại Công an Khánh Hòa, cam đoan đã dịch chính xác nội dung văn bản này từ tiếng Việt sang tiếng Anh.
I, Phan Dinh Kinh - ID card N°: 225 022 438, issue date: August 15, 2009; issue place: Khanh Hoa police. I undertake that: I have translated accurately this document content from Vietnamese into English.
Ngày/ Date: 27-6-2022
Người dịch/ Translator

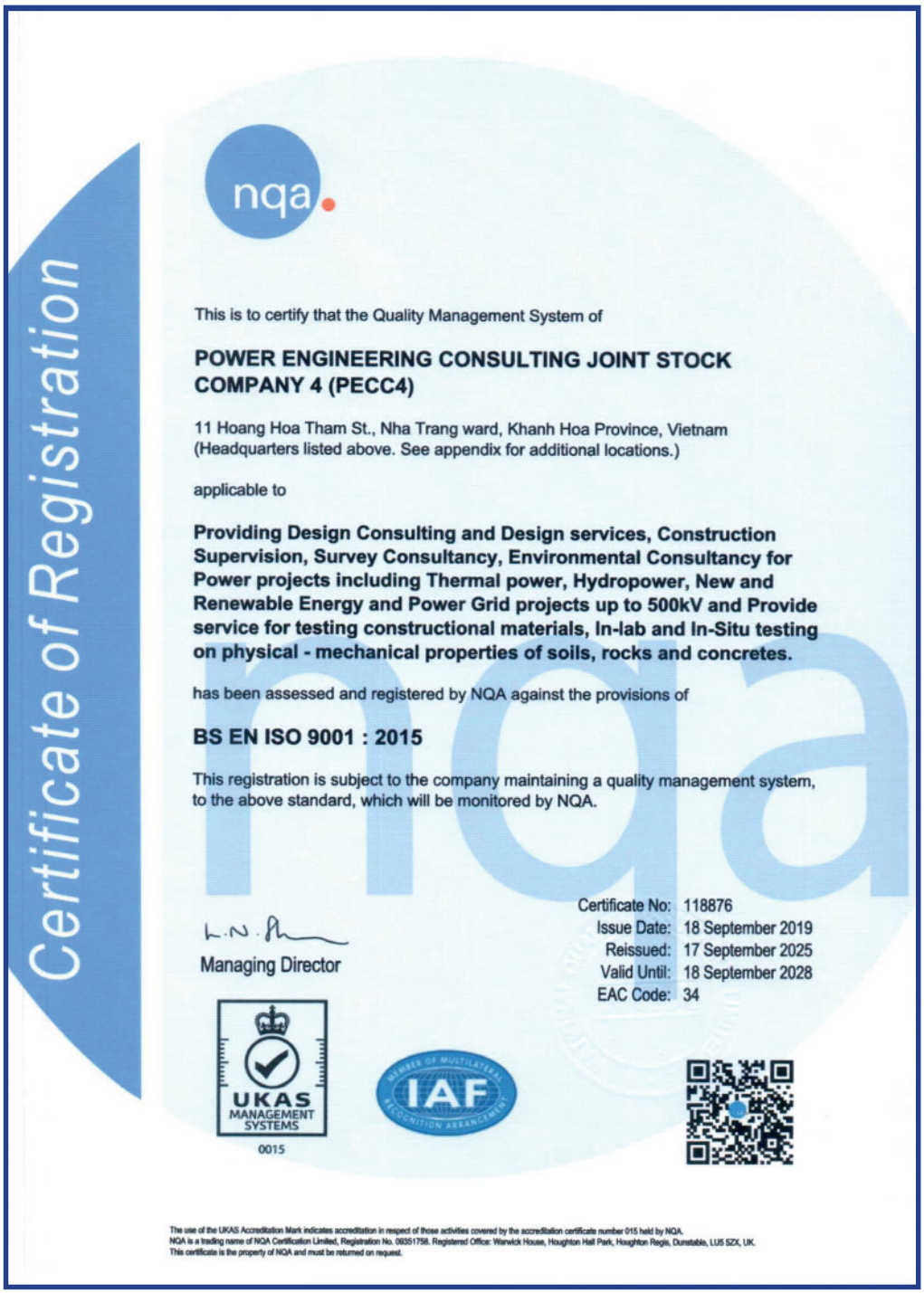
Phan Dinh Kinh

LỜI CHỨNG CỦA CÔNG CHỨNG VIÊN/ CERTIFICATION OF NOTARY PUBLIC
Hôm nay ngày 27 tháng 6 năm 2022
(Ngày Hai mươi bảy, tháng Sáu, năm hai ngàn hai mươi hai)
Today, on the Twenty-seventh day of June, two thousand and twenty-two
Tại Phòng Công chứng số 1 tỉnh Khánh Hòa - 13 Hoàng Hoa Thám, Nha Trang, Khánh Hòa
(at Notary office N°: 1 Khanh Hoa - 13 Hoang Hoa Tham, Nha Trang, Khanh Hoa)
Tôi Lê Lệ Hoa ,công chứng viên, trong phạm vi trách nhiệm của mình theo quy định của pháp luật
I am, Notary public, in my scale of responsibilities under laws regulations.
CHỨNG NHẬN/ IT HEREBY TO CERTIFY THAT
Bản dịch này do Ông Phan Đình Kính, cộng tác viên phiên dịch của Phòng Công chứng số 1 tỉnh Khánh Hòa dịch từ tiếng Việt sang tiếng Anh.
Mr. Phan Dinh Kinh - an accredited translator of Notary office N°: 1 Khanh Hoa has translated the translation from Vietnamese into English
Chữ ký trong bản dịch đúng là chữ ký của Ông Phan Đình Kính
Certified true signature of Mr. Phan Dinh Kinh
Nội dung bản dịch chính xác, không vi phạm pháp luật, không trái đạo đức xã hội.
Content of translation is accurate, does not violate laws, social morality
Văn bản công chứng này gồm … tờ, …….trang, lưu 01 bản tại Phòng Công chứng số 1 tỉnh Khánh Hòa
The translation includes … sheet, …… page, and one copy is filed at the Notary Office No. 1 of Khanh Hoa province.
Số Công chứng:…000…;quyển số: 05/2022 TP/CC-SCC/BD
Công Chứng Viên / Notary Public
Lê Lệ Hoa

LEGAL DOCUMENTS

CERTIFICATE OF QUALITY MANAGEMENT SYSTEM ISO 9001:2015

ISSUED BY NQA ON 18TH SEPTEMBER, 2019



Certificate of Registration

nqa.

This is to certify that the Quality Management System of

POWER ENGINEERING CONSULTING JOINT STOCK COMPANY 4 (PECC4)

11 Hoang Hoa Tham St., Nha Trang ward, Khanh Hoa Province, Vietnam
(Headquarters listed above. See appendix for additional locations.)

applicable to

Providing Design Consulting and Design services, Construction Supervision, Survey Consultancy, Environmental Consultancy for Power projects including Thermal power, Hydropower, New and Renewable Energy and Power Grid projects up to 500kV and Provide service for testing constructional materials, In-lab and In-Situ testing on physical - mechanical properties of soils, rocks and concretes.

has been assessed and registered by NQA against the provisions of

BS EN ISO 9001 : 2015

This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA.

Managing Director

Certificate No: 118876
Issue Date: 18 September 2019
Reissued: 17 September 2025
Valid Until: 18 September 2028
EAC Code: 34

UKAS MANAGEMENT SYSTEMS
0015

IAF

The use of the UKAS Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 015 held by NQA.
NQA is a trading name of NQA Certification Limited, Registration No. 09351758. Registered Office: Warwick House, Houghton Hall Park, Houghton Regis, Dunstable, LU5 5ZX, UK.
This certificate is the property of NQA and must be returned on request.

02. RESOURCES



HUMAN RESOURCES



EVNPECC4's employees in front of the Company's yard

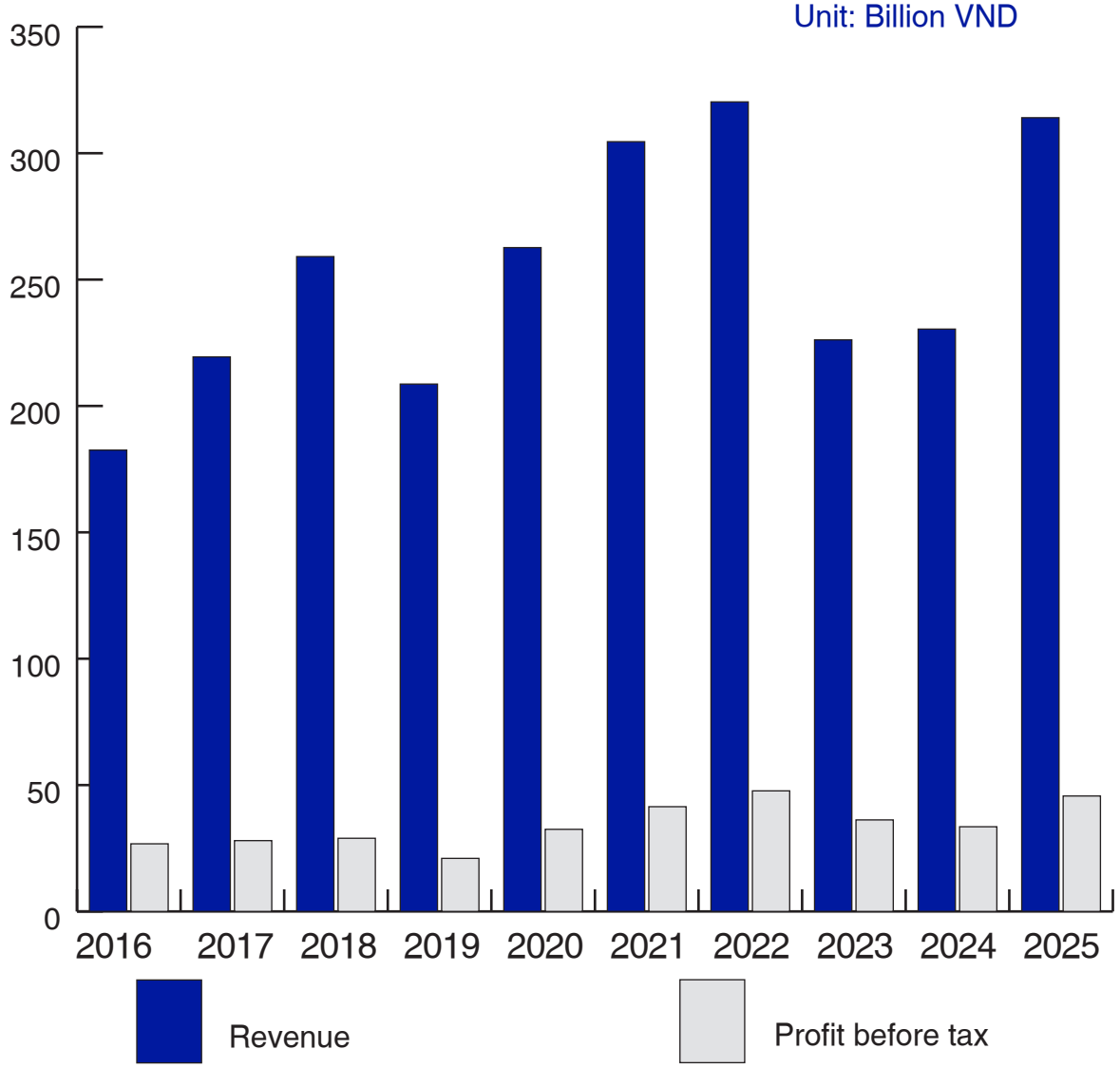
With 50 years of establishment and development, EVNPECC4's human resources have been continuously growing in both quantity and quality with more than 400 employees. Up to date, EVNPECC4 has built up a strong team of highly professional, rich experienced, enthusiastic, responsible engineers and experts.

In recent years, EVNPECC4 has focused on research and science, technology applications in all business fields, enhancing quality and skill of human resources, satisfying construction investment with advanced technology, bringing high quality and effectiveness of consulting services provided to Clients.

Together with the enhancement of recruitment quality and training courses, EVNPECC4 has been cooperating with a team of leading technical experts in the energy sector in order to fully satisfy clients' requirements and to ensure the economic and technical aspects of the consulting products and services.

Financial performance in period 2015 - 2024

Unit: Billion VND



Financial statements in the last 5 years

Unit: Million VND

	Items	2021	2022	2023	2024	2025
1	Total assets	354,132	405,960	373,910	374,529	429,227
2	Revenue	304,564	320,311	226,153	230,414	314,045
3	Profit before tax	41,442	47,705	36,216	33.508	45.675
4	Profit after tax	35,271	41,519	32,758	30.685	42.719

EQUIPMENT

The Company is fully equipped with modern vehicles, machines, equipment to guarantee the most favourable conditions for carrying out survey and engineering consulting services. The list of typical equipment is shown in the table below:

NO.	TYPE	UNIT	DESCRIPTION	QUANTITY
I. TOPOGRAPHICAL SURVEY EQUIPMENT				
1	GPS Leica 1200 (1-frequency)	pcs	Building coordinate, elevation control grids (Triangular grid class IV, cadastral grids, traverse class 1, class 2).	1
2	GPS Leica 500 (1-frequency)	pcs		2
3	GPS Trimble R8S (2-frequency)	pcs	Building coordinate, elevation control grids (Triangular grid class IV, cadastral grids, traverse class 1, class 2). Mapping topographical maps with various scales. Mapping land parcels.	3
4	Electronic water levelling Leica DNA 03	pcs	Building leveling grids of class I, II, III, IV, technical leveling grid.	2
5	Garmin GPSmap 78 handheld GPS locator	pcs	Relatively positioning of construction site coordinates for site selection.	21
6	Electronic Total Station Leica TC 2003	pcs	Building high-precision coordinate grids (Detailed elevation-coordinate grid for construction, triangular grids,…).	1
7	Electronic Total Station Leica TM 50	pcs	Mapping topographical maps with various scales.	1
8	Electronic Total Station Leica TC 305	pcs	Mapping topographical maps with various scales.	1
9	Electronic Total Station TC 405	pcs	Mapping land parcels.	4
10	Electronic Total Station Leica TC 705	pcs	Mapping longitudinal and horizontal profiles.	1
11	Electronic Total Station Leica TS 02	pcs	Measuring, surveying works.	3
12	Water leveling Leica NA 724	pcs	Building leveling grid of class IV, technical leveling grid.	1
13	Water leveling Leica Wild NA2	pcs		1
14	GPS Stonex S850A GNSS	pcs	Building elevation, coordinate control grids (Triangular grid class IV, cadastral grids, traverse class 1, class 2). Mapping topographical maps with various scales. Mapping land parcels. Mapping longitudinal and horizontal profiles. Measuring, surveying works.	4

EQUIPMENT

NO.	TYPE	UNIT	DESCRIPTION	QUANTITY
15	Drone/unmanned aerial vehicle (UAV) Phantom 4RTK	set	Flying aeronautical photography, create digital elevation models and build topographic maps	1
16	Echo Sounder CHCAV D230	set	Using 2-frequency GPS for topography survey and underwater mapping	1
II. GEOLOGICAL SURVEY EQUIPMENT				
1	Core Drilling Rig XY-44A	set	Capable drilling depth 1000m	1
2	Core Drilling Rig XY-3	set	Capable drilling depth 500m	1
3	Geological Drilling Machine XY-1A	set	Capable drilling depth 120m	6
4	Geological Drilling Machine JX50-1	set	Capable drilling depth 50m	2
5	Geological Drilling Machine QZ-2C	set	Capable drilling depth 20m	8
6	Drilling machine YKB 12/25	set	Capable drilling depth 15m	3
7	Geological Drilling Machine SZ-2	set	Capable drilling depth 15m	1
8	Geological Drilling Machine ZY15	set	Capable drilling depth 15m	5
9	Drilling Machine T-Tech 2015	set	Capable drilling depth 15m	1
10	Float set for underwater drilling survey	set	5 tons	1
III. HYDRO-METEOROLOGICAL SURVEY EQUIPMENT				
1	Digital flow velocity gauge	set	Measuring flow velocity	1
2	Water level gauge	pcs	Measuring water level	1
3	Sediment sampler	set	Sampling sediment mud, sand	1
IV. GEOTECHNIQUE SURVEY EQUIPMENT				
1	Earth and resistivity tester Chauvin Amoux 6462	pcs	Measuring resistivity	1
2	Earth and resistivity tester CA 6470N	pcs	Measuring resistivity	9
V. TESTING EQUIPMENT				
1	Uniaxial compression machine	pcs		33
2	Drier	pcs	LAB testing of specimens: soil, rock, sand, gravel, triaxial, consolidated samples…	4
3	Coarse sieve machine	pcs		1
4	Los Angeles abrasion test machine	pcs		1

EQUIPMENT

NO.	TYPE	UNIT	DESCRIPTION	QUANTITY
5	Infrared rays moisture testing machine	pcs		1
6	Single-station flat cutting machine	pcs		1
7	4-station flat cutting machine	pcs		1
8	Triaxial compression machine	pcs		2
9	Handheld pH measurement equipment	pcs		1
10	Standard soil sieve set	set	LAB testing of specimens: soil, rock, sand, gravel, triaxial, consolidated samples…	4
11	Standard sand sieve set	set		2
12	Nanjing permeameter	pcs		3
13	Expansion swelling tools	pcs		3
14	Tool for defining angle of repose of sand in dry and wet condition	pcs		1
15	Rock drilling machine	pcs		2
16	Electronic weight	pcs		10
17	Shaking crusher	pcs		1
18	Jaw crusher	pcs		1
19	Cement mortar mixer	pcs		1
20	Cement concrete sample molding	pcs		1
21	Vacuum pump	pcs		1
22	Concrete ultrasonic machine	pcs	Testing of construction material specimens	1
23	Concrete anti-seepage testing machine	pcs		1
24	Petrology thin slide cutter	pcs		1
25	Horizontal disc-mounted grinder	pcs		1
26	Compression machine ELE 25 tons	pcs		1
27	Compression machine ELE 150 tons + flexure device E172-01	pcs		1
28	Static Penetrometer Geomil 100KN-TW	pcs		1
29	Load-bearing capacity determination kit	pcs		1
30	CBR value test apparatus	set	Field testing: Cone penetration test (CPT), static compression test, CBR, elastic modulus determination…	1
31	Bekelman apparatus	set		1
32	Vibration table ZT-1x1	pcs		1
33	Air entrainment meter C195+Cylinder	pcs		1

EQUIPMENT

NO.	TYPE	UNIT	DESCRIPTION	QUANTITY
34	Microscope	pcs		1
35	Experimental set for elastic modulus determination	pcs	Field testing: Cone penetration test (CPT), static compression test, CBR, elastic modulus determination…	1
36	C213 concrete penetration tester	pcs		1
37	Hydraulic universal testing machine 60 tons model D5	pcs		1
38	Forced concrete mixer	pcs		1
39	Concrete split-compress test jig	pcs		1
40	Demolition hammer GSH 16-30	pcs		3
41	Angle grinder GW 8-125C	pcs		2
42	GSH 5X portable demolition hammer	pcs		1
43	Makita EK 7651H portable concrete cutting machine	pcs		3
44	Strain gauge 1/1000	pcs	Testing soil-rock physical mechanical properties in tunnel.	8
45	Strain gauge 1/100	pcs		6
46	Electronic pressure gauge	pcs		3
47	Hydraulic pump HHB- 630M	pcs		2
48	HHYG 200150 hydraulic jack (300 tons, 150 mm)	pcs		2
49	HHYG 200150 hydraulic jack (200 tons, 150 mm)	pcs		3
50	2000KN concrete compression machine	pcs		1
51	Hydraulic puller and pressure gauge (100 kN)	set	Pile pull-out test.	2
52	Hydraulic puller and pressure gauge (300 kN)	set		1
VI. OFFICE EQUIPMENT				
1	Desktop computer	pcs	Calculating, designing	350
2	Printer	pcs	A4…A0	60
3	Photocopier	pcs	A4…A0	6
VII. MEANS OF TRANSPORT				
1	8-seater Toyota Landcruiser car	pcs		5
2	5 - 7 seater car	pcs		9
3	Pick-up truck	pcs	Serving for field surveys	9
4	16-seater Toyota car	pcs		1
5	Crane truck	pcs		1

SOFTWARE

In order to ensure accuracy and to optimize technical, engineering solutions selected in projects performance, EVNPECC4 has focused on investing in advanced software for application in surveying and engineering. The list of typical software is shown in the table below:

NO.	SOFTWARE	DESCRIPTION
I. ADMINISTRATION		
1	D-Office	Document and work management
2	FMIS	Accounting software
3	HRMS	Human Resource management software
II. SURVEY AND INVESTIGATION		
1	Agisoft Metashape Professional	Aerial photos processing
2	HEC HMS	Hydrological calculation
3	HEC RAS	River hydraulic formulation
III. ENGINEERING		
1	PSSE	Power system calculation & analysis
2	Bentley Subtation V8i	3D engineering design of substation
3	PLS CAAD, PLS POLE, PLS TOWER	3D engineering design of power grid
4	FENAS, SAP	Work structural calculation
5	GEO-SLOPE	Work foundation stability calculation
6	Transient	Calculation of hydropower plant transient modes
7	GT Pro, Steam Pro	Engineering design of steam, gas turbine thermal power plants
8	Wasp	Wind energy calculation
9	WindPro	Engineering design of wind power
10	Meteonorm 7.1.8	Irradiance intensity calculation
11	PVSyst	Engineering design of solar power
12	Promis	Engineering of secondary part
13	Autodesk software system	BIM design drawing software
14	Autodesk Autocad Revit	3D design drawing software
15	CIC	Cost estimate software
16	DigSilent 2022	Power system calculation & analysis
17	CYMCAP	Calculation of ampacity and temperature rise for power cable installations
18	ETAP	Electrical Transient Analyzer Program
19	EMTP-RV	Electromagnetic transient calculations for selecting primary equipment

03. CAPABILITIES & EXPERIENCE



CAPABILITIES AND EXPERIENCE IN POWER ENGINEERING

With 50 years of experience in the field of power engineering consulting, EVNPECC4 has implemented more than 1,000 power grid projects with voltage up to 500kV; more than 500 hydropower, thermal power and renewable energy projects nationwide; including technical infrastructure, civil and transport projects.

1

Engineering

- Survey and investigation
- Laboratory and experiment for construction works
- Engineering design and appraisal
- Projects construction supervision

2

Others

- Planning
- Optimization of power system calculation
- Consultancy of repair, maintenance and refurbishing of power plants
- Environmental monitoring
- Energy audit

3

Projects investment management

4

EPC contracting of energy projects

5

Investment and cooperation in the field of energy

SURVEY & INVESTIGATION CONSULTING CAPABILITY



SURVEY & INVESTIGATION CONSULTING CAPABILITY

After 50 years investigating in power projects, EVNPECC4 has built up a qualified workforce. EVNPECC4 has equipped with modern and specialized facilities for the works of geological and topography survey, unmanned aerial vehicle with high accuracy and specialised software; national recognized laboratory (LAS) and other facilities to meet investigation requirement from clients.

SCOPE OF WORKS

Survey and investigation

• Survey, mapping of topographical profiles, establishing of terrestrial, underwater terrain maps in various scales;

• Measuring and establishing of cadastral maps, setting out boundary landmarks, preparing of compensation, resettlement and site clearance plans;

• Aerial photograph drone, bathymetry;

• Geological exploratory drilling with drilling depth of up to 700 metres. Hydrogeological, geophysical surveys;

• Consulting to survey and calculate of hydrology and oceanography conditions for construction projects.

• Wind measurement and wind energy potential assessment;

• Geological description of foundation pits for various types of structures;

• Monitoring deformation, dislocation and sediment of irrigation, hydropower, thermal power projects;

Laboratory and experiment for construction works

• Checking of mechanical durability of concrete, roller compacted concrete (RCC), structure, construction materials;

• Carrying out of field tests (SPT, CPT and other tests in boreholes) and LAB tests for ground bases, foundations, construction materials, and RCC testing;

• Water sample analysis, soil-rock mechanics testing, foundation testing and construction materials testing;

• Inspection on project's quality;

• Testing, analyzing, assessing of environmental criteria.

EXPERIENCE

• Topographical and geological investigation over 100 power source projects with capacites ranging from 30MW to 1,200MW.

• Topographical and geological investigation over 3,000 km transmission lines of 500kV, over 20,000 km transmission lines from 22kV to 220kV with many 110kV, 220kV and 500kV substations.

• Planimetric survey about 50,000 ha with scale from 1/5,000 to 1/100.

• Measuring over 20,000 km topographical sections.

• Drilling for geological investigation over 200,000 m.

• Extracting over 20,000 ha of cadastral map for site clearance compensation.

SURVEY & INVESTIGATION CONSULTING CAPABILITY

TYPICAL PROJECTS

Bac Ai Pumped Storage Hydropower (1,200MW)

Investigation for preparing of FS, Technical design, in which geological exploration drilling up to 10,000m, the deepest borehole is 550m.







Marshal Ben Tre windfarm

Location: Ben Tre
Installed capacity: 100 MW
Scope of works:
- Drilling for geological exploration, planimetric measuring by echo sounding



V1-3, V1-5, V1-6 windfarm, stage 2

Location: Tra Vinh
Total installed capacity: 128 MW
Scope of works:
- Survey of marine terrain and geology of the project area



Duyen Hai windfarm

Location: Tra Vinh
Installed capacity: 48 MW
Scope of works:
- Survey of marine terrain and geology of the project area

SURVEY & INVESTIGATION CONSULTING CAPABILITY

TYPICAL PROJECTS

Savannakhet WPP (Laos)



Design, supply, construction and installation of Met Masts; Operating, collecting data and preparing installation report.

500kV Northern Chau Duc Substation



Flying aeronautical photography by unmanned aerial vehicle (UAV)

Trung Nam – Thuan Bac WPP



CPT Static penetration test



Soil testing by 3-axis compressor

SURVEY & INVESTIGATION CONSULTING CAPABILITY

TYPICAL PROJECTS

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT
SURVEY FOR ENGINEERING POWER PLANTS				
Krong H'nang	Dak Lak + Phu Yen	2001-2007	65	Song Ba Power Investment & Development JSC
Buon Tua Srah	Dak Lak + Dak Nong	2001-2008	86	EVN
Ea Krong Rou	Khanh Hoa	2002-2003	28	Central Power Development JSC
Srepok 4	Dak Lak	2004-2005	70	Dai Hai Investment and Development JSC
Trung Son	Thanh Hoa	2004-2015	260	EVN
Nho Que 2	Ha Giang	2006-2007	42	Nho Que Power Investment & Development JSC
Nho Que 1	Ha Giang	2006-2009	32	Northern Power Investment & Development JSC
Nam Muc	Dien Bien	2006-2009	44	Nam Muc Hydropower JSC
Nam Na	Lai Chau	2006-2010	200	EVN
Bac Ai PSPP	Ninh Thuan	2006-2020	1,200	EVN
Song Tranh 3	Quang Nam	2007-2008	49	Central Region JSC
Srepok 4A	Dak Lak	2009-2013	64	EVNPECC4
SURVEY FOR RENEWABLE ENERGY PROJECTS				
BIM	Ninh Thuan	2019-2020	320	BIM Windpower JSC
Trung Nam - Thuan Nam Solar farm	Ninh Thuan	2019-2020	450	Trung Nam Thuan Nam Solar Power Co., Ltd.
Ea Nam WPP	Dak Lak	2020-2021	400	Trung Nam Dak Lak Wind Power JSC
Cho Long WPP	Gia Lai	2020-2021	155	Cho Long Wind Power JSC
Yang Trung WPP	Gia Lai	2020-2021	145	Yang Trung Wind Power JSC
Marshall Ben Tre Offshore WPP	Ben Tre	2021	5,000	Marshal Global Ben Tre Renewable Power Private Limited
KN Srepok 3 Solar farm	Dak Lak	2022	380	Srepok 3 Solar Power JSC
Truong Son WPP	Laos	2023-2024	250	Viet Lao Energy Investment And Development JSC
Duyen Hai WPP	Vinh Long	2024	48	Duyen Hai Wind Power JSC
V1-3, V1-5, V1-6 WPPs Phase 2	Vinh Long	2024-2026	128	REE Tra Vinh Wind Power Co., Ltd.
V1-2 Extension WPP	Vinh Long	2025-2026	48	Truong Thanh Duyen Hai Wind Power JSC.
Dong Hai 3 WPP	Vinh Long	2025-2026	48	Dong Hai Wind Power JSC

SURVEY & INVESTIGATION CONSULTING CAPABILITY

TYPICAL PROJECTS

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT
SURVEY FOR THERMAL POWER - BIOMASS PROJECTS				
Cong Thanh TPP	Thanh Hoa	2010-2019	600	Cong Thanh Thermal Power JSC
Van Phong LNG	Khanh Hoa	2020	2,600	Electric Power Development Co.,Ltd.
Ca Na LNG	Ninh Thuan	2020	1,500	Gulf Energy Development Public Co., Ltd.
Khanh An Biomass	Ca Mau	2021	24	Intracom

PROJECT	PERIOD	SCALE (KM)	CLIENT
SURVEY FOR TRANSMISSION LINE (T/L) PROJECTS			
500kV North - South T/L - Circuit 1 (Segment of Da Nang - Buon Ma Thuot)	1992-1995	436	EVN
500kV Pleiku - Phu Lam T/L (Segment of Dong Nai - Phu Lam)	1992-1995	100	EVN
500kV Pleiku - Dung Quat - Da Nang T/L (Segment of Pleiku - Dung Quat)	1992-1995	202	EVN
500kV North - South T/L - Circuit 2 (Segment of Ha Tinh - Nho Quan)	2003-2005	277	EVN
500kV Quang Ninh - Thuong Tin T/L	2003-2010	148.9	EVN
500kV Ban Sok - Pleiku T/L	2009-2013	110	EVN
500kV Pleiku - My Phuoc - Cau Bong T/L	2011-2016	442	EVN
500kV Nam Dinh TPP 1 - Pho Noi T/L	2016-2024	126.9	EVN
500kV Nam Dinh TPP 1 - Thanh Hoa T/L	2016-2024	74.4	EVN
500kV Quang Trach - Doc Soi T/L	2018-2021	500	EVN
220kV Hoa Khanh - Hue T/L	2000-2002	82	EVN
220kV Da Nhim - Nha Trang T/L	2002-2003	113	EVN
220kV Pleiku - KrongBuk T/L	2002-2008	170	EVN
220kV Quy Nhon - Tuy Hoa T/L	2002-2010	92.5	EVN
220kV Tuy Hoa - Nha Trang T/L	2002-2010	135	EVN
220kV Ban La - Vinh T/L	2002-2012	167	EVN
220kV Dong Hoi - Hue T/L	2003-2011	173	EVN
220kV Da Nang - Doc Soi T/L	2004-2013	106	EVN
220kV Tuyen Quang - Thai Nguyen T/L	2006-2007	77	EVN

SURVEY & INVESTIGATION CONSULTING CAPABILITY

TYPICAL PROJECTS

PROJECT	PERIOD	SCALE (KM)	CLIENT
220kV XeKaMan 3 - Thanh My T/L	2007-2011	92.3	EVN
220kV Upper Kon Tum - Quang Ngai T/L	2007-2020	76	EVN
220kV KrongBuk - Nha Trang T/L	2008-2018	148	EVN
220kV T/L connecting DakMi 4 HPP	2008-2021	60	IDICO
220kV Quang Ngai - Quy Nhon T/L	2009-2015	147	EVN
220kV Phan Thiet - Phu My 2 T/L	2009-2015	144	EVN
220kV Vinh Tan - Phan Thiet T/L	2009-2016	92	EVN
220kV A Vuong 1 - Hoa Khanh T/L	2012-2013	79	EVN

PROJECT	PERIOD	SCALE (MVA)	CLIENT
SURVEY FOR SUBSTATION PROJECTS			
500kV Quang Ninh substation	2003-2010	2x450MVA	EVN
500kV DakNong substation	2004-2012	2x450MVA	EVN
500kV Pho Noi substation	2008-2016	2x600MVA	EVN
500kV Thanh My substation	2009-2011	2x450MVA	EVN
500kV Thuan Nam substation	2020	2x900MVA	TNG
220kV Nha Trang substation	1997-1999	2x125MVA	EVN
220kV Hoa Khanh substation	2000-2002	2x125MVA	EVN
220kV Do Luong substation	2005-2007	2x125MVA	EVN
220kV Son Ha substation	2011-2017	2x125MVA	EVN
220kV Song Tranh 2 substation	2011-2020	2x125MVA	EVN

HYDROPOWER CONSULTING CAPABILITY



HYDROPOWER CONSULTING CAPABILITY

With over 20 years of experience in the field of hydropower engineering consulting, EVNPECC4 has provided consulting services for over 20 medium to large hydropower projects and numerous small hydropower projects with a total installed capacity of over 3,000MW, contributing to ensuring national energy security.

SCOPE OF WORKS

- Planning for hydropower development by basin, planning for hydropower cascade by river;
- Investigating and preparing environmental impact assessment reports, resettlement compensation and support plans for hydropower projects;
- Consultancy on project formulation and construction design of hydropower projects of different scales including the stages of Basic Design, Technical Design & Total Estimation, Detailed Design;
- Preparing bidding documents and evaluate bids for construction and supply of technological equipment for Hydropower projects;
- Safety inspection of irrigation dams, hydropower, stability assessment of project components;
- Preparing emergency action plans, developing flood maps downstream of irrigation and hydropower projects;
- Establishing inter-reservoir operating procedure;
- Engineering and cost estimate appraisal of projects at various stages.

EXPERIENCE

Domestic projects

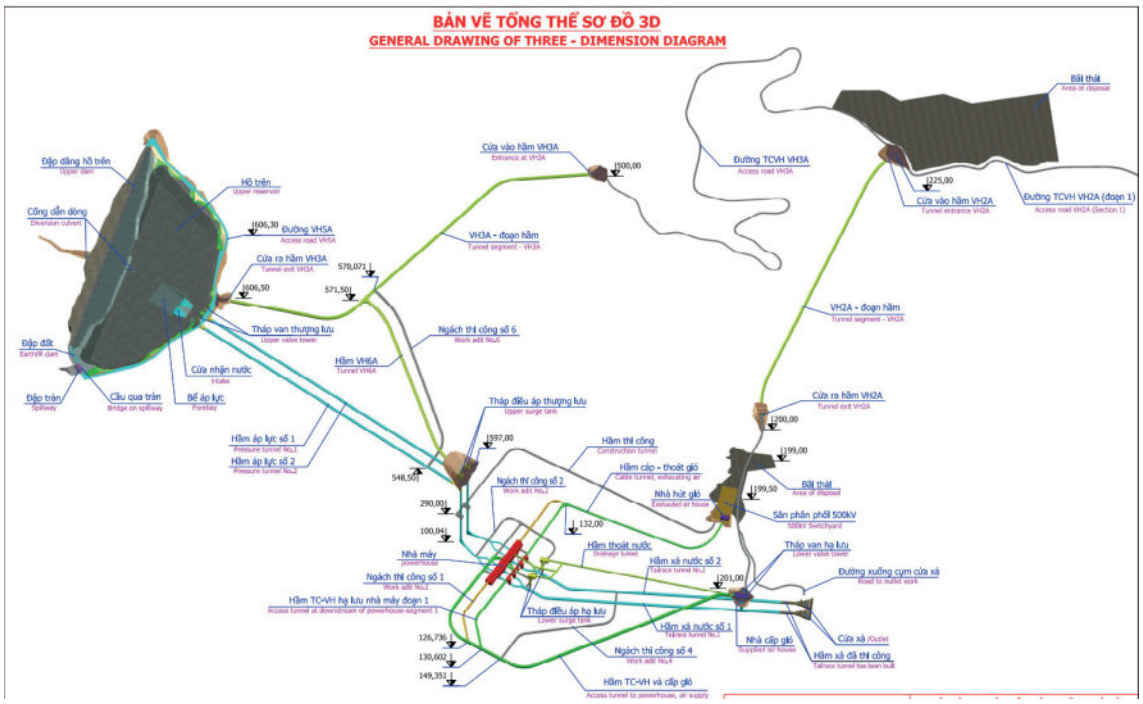
- Planning: 3,000MW
- Pre-PS/FS: Over 20 projects, total capacity of 3,000MW
- Technical design, Detailed design: Over 10 projects, total capacity of 2,000MW
- Appraisal: Over 15 projects, total capacity of 1,500MW

Oversea projects

- Hydropower potential planning in Laos with a total capacity of 13,100MW
- FS report for Se Kong hydropower project in Cambodia with a capacity of 190MW

TYPICAL PROJECTS

Bac Ai Pumped Storage Hydropower



General Drawing of 3D Diagram

Location: Ninh Thuan
Installed capacity: 1,200 MW
Main dam height: 52.3 m
Project classification: Special class
Scope of works:
- Survey, Investment Report
- Survey, Feasibility Study (FS)
- Environmental impacts assessment
- Survey, technical design, bidding document
- Detailed design



Outlet works completed in March, 2021

TYPICAL PROJECTS

Song Bung 4 Hydropower
Location: Quang Nam
Installed capacity: 156 MW
Main dam height: 114 m
Project classification: Class I
Scope of works:
- Review of Technical design
- Bidding process assistance
- Project construction supervision



Buon Tua Srah Hydropower
Location: Dak Lak
Installed capacity: 86 MW
Main dam height: 83 m
Project classification: Class I
Scope of works:
- Survey, FS
- Technical and detailed design
- Bidding document
- Environmental impacts assessment
- Geological description of foundation pits
- Survey, assessment of downstream landslide
- Dam safety evaluation and sediment monitoring



Trung Son Hydropower
Location: Thanh Hoa
Installed capacity: 260 MW
Main dam height: 83 m
Project classification: Class I



Trung Son Hydropower's dam spillway

Scope of works:
- Survey, pre-feasibility study (Pre-FS)
- Survey, feasibility study (FS), environmental impacts assessment (EIA)
- Survey, technical design, bidding document and bids evaluation
- Experiment and designing of roller compacted concrete (RCC) aggregate
- Geological description of foundation pits
- Setting out reservoir boundary landmarks
- Survey, calculation of dam failure scenarios and preparation of EPP, flood mapping and flood control downstream
- Monitoring of dam displacement
- Work safety assessment via monitored data

HYDROPOWER CONSULTING CAPABILITY

TYPICAL PROJECTS

A: Pre-feasibility study (Pre-FS)
B: Feasibility study (FS)
C: Technical design (TD)
D: Detailed design (DD)

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT	STAGES A	B	C	D
ENGINEERING								
Krong H'nang	Dak Lak + Phu Yen	2001-2007	65	Song Ba Power Investment & Development JSC		✓	✓	✓
Buon Tua Srah	Dak Lak + Dak Nong	2001-2008	86	EVN	✓	✓	✓	✓
Ea Krong Rou	Khanh Hoa	2002-2003	28	Central Power Development JSC		✓		
Srepok 4	Dak Lak	2004-2005	70	Dai Hai Investment & Development JSC		✓	✓	✓
Khanh Thuong	Khanh Hoa	2004-2006	12	Central Power Development JSC		✓		
Da Krong 1	Quang Tri	2004-2006	12	Central Power Development JSC		✓		
Nam Mo	Nghe An	2004-2006	17	Ban Ve Hydropower JSC		✓		
Trung Son	Thanh Hoa	2004-2015	260	EVN	✓	✓	✓	✓
Song Giang	Khanh Hoa	2005	30	Song Giang Hydropower JSC		✓		
Po E	Quang Ngai	2006-2007	12	Po E Hydropower JSC		✓		
Tra Xom	Binh Dinh	2006-2007	18	Tra Xom Hydropower JSC		✓		
Nho Que 2	Ha Giang	2006-2007	42	Nho Que Power Investment & Development JSC		✓	✓	✓
Phu Tan 2	Dong Nai	2006-2007	81	Nhan Luat Energy JSC		✓		
Nho Que 1	Ha Giang	2006-2009	32	Northern Power Investment & Development JSC		✓	✓	
Nam Muc	Dien Bien	2006-2009	44	Nam Muc Hydropower JSC		✓		
Nam Na	Lai Chau	2006-2010	200	EVN	✓			
Hoi Xuan	Thanh Hoa	2006-2012	90	Vietnam Power Construction Corporation		✓		
Bac Ai PSPP	Ninh Thuan	2006-2020	1,200	EVN	✓	✓	✓	
Tr' Hy	Quang Nam	2007-2008	30	Enterprise Finance & Development JSC		✓		
Song Tranh 3	Quang Nam	2007-2008	49	Central Region JSC		✓		
La Ngau	Binh Thuan	2007-2009	46	La Ngau Hydropower JSC		✓	✓	✓
Srepok 4A	Dak Lak	2009-2013	64	EVNPECC4		✓	✓	✓
Se Kong	Cambodia	2010-2015	190	EVN		✓		

HYDROPOWER CONSULTING CAPABILITY

TYPICAL PROJECTS

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT	STAGES A	B	C	D
APPRAISAL								
An Khe	Gia Lai + Binh Dinh	2005-2006	173	EVN		✓		
Da Dang 2	Lam Dong	2006	34	Southern Hydropower JSC			✓	
Nho Que 3	Ha Giang	2006-2007	110	Nho Que 3 Hydropower JSC		✓		
A Luoi	Thua Thien - Hue	2006-2007	170	Central Power Development JSC			✓	
Dak Mi	Quang Nam	2006-2007	190	Srok Phu Mieng Management Board			✓	
Van Chan	Yen Bai	2007	57	Van Chan Hydropower JSC			✓	
Da M'bri	Lam Dong	2007	75	Southern Hydropower JSC			✓	
Ngoi Hut 2	Yen Bai	2008	49	Truong Thanh Co., Ltd		✓		
Lower Se San 1 /Se San 5	Cambodia	2008	96	EVN International JSC	✓	✓		
Song Bung 4	Quang Nam	2008	164	Song Bung 4 Hydropower JSC			✓	
Lower Se San 2	Cambodia	2008	400	EVN	✓	✓		
Hoa Phu	Dak Nong + Dak Lak	2010	29	Tam Long Hydropower JSC			✓	
Moc Chau PSPP	Son La	2011	1,200	Hydropower Projects Management Board 1		✓		

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT
PLANNING				
Srepok downstream cascade hydropower planning	Cambodia	2005	480	EVN
Quang Tri provincial small-scale hydropower planning	Quang Tri	2005-2012	74	Quang Tri DOIT
Hydropower development planning in Laos and Vietnam - Laos - Cambodia inter-connection grid planning	Vietnam - Laos - Cambodia	2014	13,022	EVN

TYPICAL PROJECTS

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT
PLANNING				
Khanh Vinh PSPP	Khanh Hoa	2022	1,000	Bitexco Power Corporation
Kosy PSPP	Bao Loc	2022	1,200	Kosy JSC
Ninh Son PSPP	Ninh Thuan	2022	1,200 - 2,400	Trung Nam Group
Kon Plong PSPP	Kon Tum	2022	1,200 - 3,600	Bitexco Power Corporation
Quang Tri PSPP	Quang Tri	2022	350 - 500	EVNGENCO2

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT	SCOPE OF WORKS
OPERATION CONSULTING					
Srepok 4 HPP	Dak Lak	2010-2012	70	Dai Hai Investment & Development JSC	Monitoring works dislocation.
An Khe - Ka Nak HPP	Gia Lai, Binh Dinh	2016, 2019	173	EVN	Monitoring works dislocation. Dam safety inspection.
Trung Son HPP	Thanh Hoa	2017	260	EVN	Preparation of emergency preparedness plan (EPP), flood mapping. Monitoring works dislocation.
Huoi Quang HPP	Lai Chau	2019	540	EVN	Monitoring works dislocation.
Buon Tua Srah HPP	Dak Lak + Dak Nong	2020	86	EVN	Dam safety inspection. Evaluation, sediment monitoring.
Se San 4 HPP	Gia Lai	2021	360	EVN	Monitoring works dislocation. Erosion and sediment monitoring.
Tri An HPP	Dong Nai	2021	400	EVN	Dam and reservoir safety plan. Vertical and horizontal dislocation monitoring.
Ialy HPP Se San 3 HPP Plei Krong HPP	Gia Lai Gia Lai Kon Tum	2021	720 260 100	EVN	Monitoring displacement of waterway.

RENEWABLE ENERGY CONSULTING CAPABILITY



RENEWABLE ENERGY CONSULTING CAPABILITY

Recognizing the importance of Vietnam's renewable power development strategy, EVNPECC4 has proactively allocated resources and has built plans to develop renewable energy consulting services. As a frontrunner in the field, EVNPECC4 has affirmed the reputation with various projects of wind power, solar power plants have been commercially operated.

SCOPE OF WORKS

- Planning for renewable energy projects.
- Report on potentials assessment, investment proposal, Pre-FS for wind power and solar power plants.
- FS report, Technical design, Detailed design, Tender documents, Construction supervision for wind power and solar power plants.
- Project appraisal in all engineering phases.

EXPERIENCE

- Implemented supplementation planning for over 50 wind power and solar power projects with installed capacity from 30MW to 500MW into the national and provincial power development planning. Total installed capacity of all these projects is about 10,000MW.
- Provided comprehensive consulting services from FS report, Technical design, Detailed design to Project management and construction supervision for over 30 projects with total capacity over 5,000MW which have been commercially operated.

Typical solar power projects:

- Trung Nam – Thuan Nam in Ninh Thuan province – 450MW.
- Phuoc Thai – EVN in Ninh Thuan province – 200MWp.
- Ea Sup – Xuan Thien in Dak Lak – 780MWp.
- Floating solar plant in Da Mi reservoir – 47,5MWp.
- Floating solar plant in Tra O Lagoon in Binh Dinh – 50MWp.

Typical wind power projects:

- Ea Nam – Trung Nam in Dak Lak – 400MW.
- Ia Pet Dak Doa in Gia Lai 200MW.
- Binh Dai nearshore in Ben Tre – 128MW.
- Dong Hai 1 nearshore in Bac Lieu – 50MW.
- Planning for Phuoc Dinh offshore – Ninh Thuan – 1,130MW.
- Planning for Ben Tre offshore - 5,000 MW.
- Planning for Tra Vinh offshore - 5,000 MW.
- Planning for Nam Dinh offshore - 12,000 MW.
- Planning for Ninh Binh offshore - 2,000 MW.
- Planning for Thai Binh offshore - 5,000 MW.
- Planning for Hai Phong offshore - 3,000 MW.

RENEWABLE ENERGY CONSULTING CAPABILITY

TYPICAL WIND POWER PROJECTS



Ea Nam windfarm
Location: Dak Lak
Installed capacity: 400 MW
Project classification: Class I
Scope of works:
- Survey for engineering
- Technical design, detailed design



Lien Lap windfarm
Location: Quang Tri
Installed capacity: 48 MW
Project classification: Class I
Scope of works:
- Technical design, detailed design
- Bidding document of main equipment package



Binh Dai windfarm 1, 2, 3 (offshore)
Location: Ben Tre
Total installed capacity: 128 MW
Project classification: Class II
Scope of works:
- Master plan supplementation report
- Feasibility Study (FS)
- Technical design, detailed design



Trung Nam windfarm
Location: Ninh Thuan
Installed capacity: 151.95 MW
Project classification: Class I
Scope of works:
- Review of basic design
- Survey for engineering design
- Technical design, detailed design

TYPICAL SOLAR POWER PROJECTS



Da Mi solar farm (floating)

Location: Binh Thuan
Installed capacity: 47.5 MWp
Project classification: Class I
Scope of works:
- Master plan supplementation report
- Investment proposal report
- Survey for Feasibility study (FS)
- Feasibility study (FS)
- Bidding document of equipment
- Technical design

Phuoc Thai solar farm

Location: Ninh Thuan
Installed capacity: 200 MWp
Project classification: Class I
Scope of works:
- Survey, project proposal report
- Pre-Feasibility study (Pre-FS)
- Survey for FS
- FS, EPC bidding document
- Support Project management board during construction stage





Trung Nam – Thuan Nam solar farm

Location: Ninh Thuan
Installed capacity: 450 MWp
Project classification: Class I
Scope of works:
- Master plan supplementation report
- Survey, feasibility study (FS)
- Survey, technical design, detailed design
- Construction supervision of 500kV substation and 500kV, 220kV transmission lines

RENEWABLE ENERGY CONSULTING CAPABILITY

LIST OF TYPICAL RENEWABLE ENERGY PROJECTS

A: Planning
B: Feasibilty study (FS)
C: Technical design (TD)
D: Detailed design (DD)

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT	STAGES A	B	C	D
WIND POWER PROJECTS								
EVN - Phuong Mai	Binh Dinh	2010	19.8	Phuong Mai Wind Power JSC		✓		
Lien Nghia - Tran De	Soc Trang	2010	30	Lien Nghia Investment JSC	✓			
An Phong - Ninh Thuan	Ninh Thuan	2010	180	Thuan Phong Energy Development JSC		✓		
IMPSA Ninh Thuan	Ninh Thuan	2012	90	Wind Power Energia S/A (WPE)	✓			
Trung Nam	Ninh Thuan	2017-2020	151.94	Trung Nam Windpower JSC	✓	✓	✓	✓
Lien Lap	Quang Tri	2019-2020	48	Phong Lieu Windpower JSC			✓	✓
Binh Dai 4-8	Ben Tre	2019-2020	182	Ben Tre Renewable Energy JSC	✓			
Ia Pet - Dak Doa	Gia Lai	2019-2020	200	Technology Resource Energy JSC-Gia Lai			✓	✓
BIM	Ninh Thuan	2019-2020	320	BIM Windpower JSC		✓	✓	
Phuoc Dinh (Offshore)	Ninh Thuan	2019-2020	1,130	Phuoc Minh Renewable JSC		✓		
Nhon Hoi 1	Binh Dinh	2019-2021	30	Fico Investment JSC		✓	✓	✓
Nhon Hoi 2	Binh Dinh	2019-2021	30	Fico Investment JSC		✓	✓	✓
Binh Dai 1 (Offshore)	Ben Tre	2019-2021	30	Ben Tre Renewable Energy JSC		✓	✓	✓
Binh Dai 2 (Offshore)	Ben Tre	2019-2021	49	Ben Tre Renewable Energy JSC	✓	✓	✓	✓
Binh Dai 3 (Offshore)	Ben Tre	2019-2021	49	Ben Tre Renewable Energy JSC	✓	✓	✓	✓
Phong Nguyen	Quang Tri	2020	48	Power Construction JSC 1 (PCC1)			✓	
Phong Huy	Quang Tri	2020	48	Power Construction JSC 1 (PCC1)			✓	
Phong Lieu	Quang Tri	2020	48	Power Construction JSC 1 (PCC1)			✓	✓
Windfarm No.5	Ninh Thuan	2020	48	Trung Nam Group	✓	✓	✓	✓

RENEWABLE ENERGY CONSULTING CAPABILITY

LIST OF TYPICAL RENEWABLE ENERGY PROJECTS

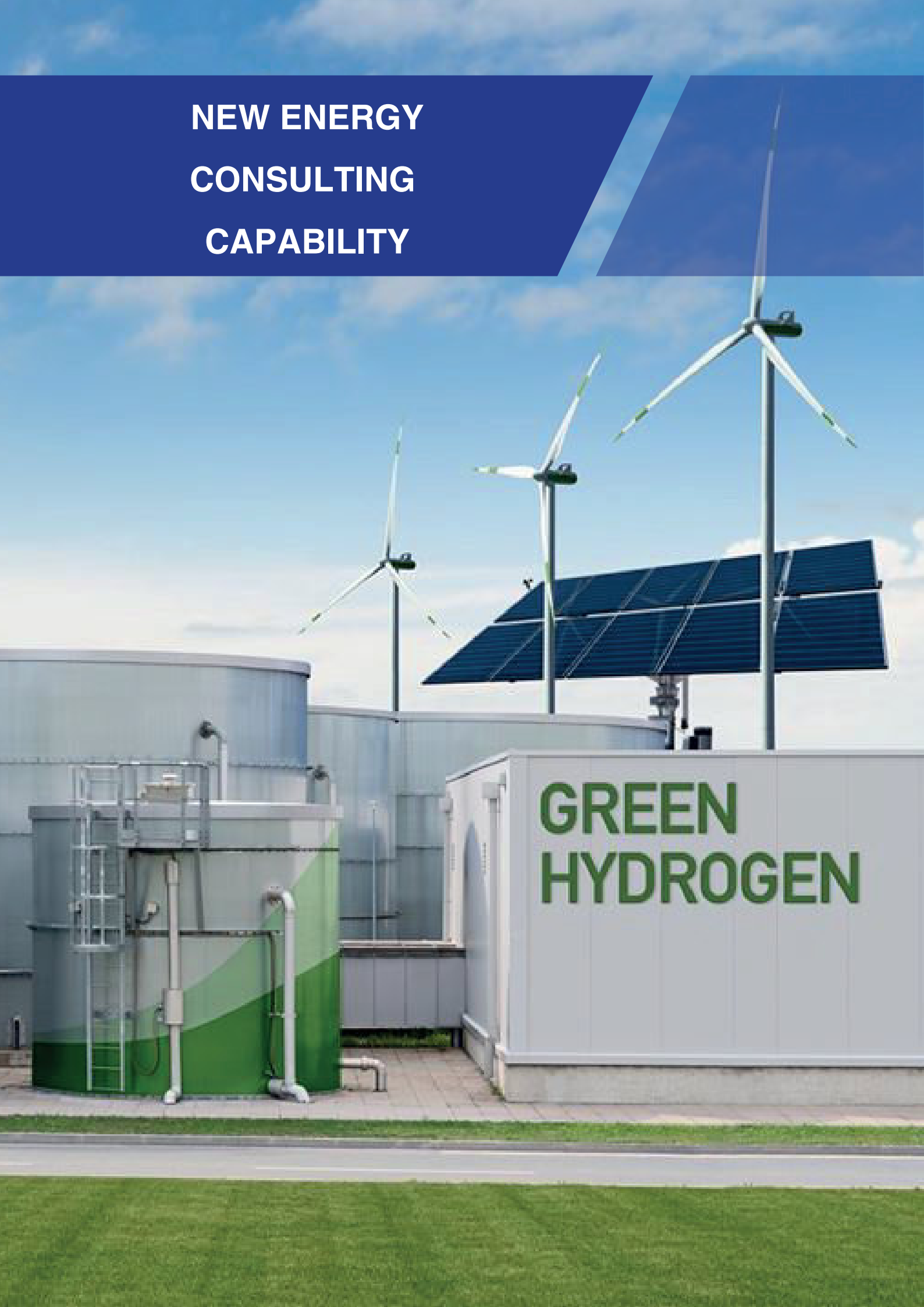
PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT	STAGES A	B	C	D
Ea Nam	Dak Lak	2020-2021	400	Trung Nam Windpower JSC –Dak Lak			✓	✓
Offshore Ben Tre	Ben Tre	2021	5,000	Trung Nam Group	✓			
Offshore Tra Vinh	Tra Vinh	2021	5,000	Trung Nam Group	✓			
Offshore Binh Thuan	Binh Thuan	2021	5,000	Xuan Thien Group	✓			
Central coastal provinces windpower planning	Central	2009		EVN	✓			
Soc Trang provincial windpower planning	Soc Trang	2014		Soc Trang DOIT	✓			
Tra Vinh provincial windpower planning	Tra Vinh	2014		Tra Vinh DOIT	✓			
Ben Tre provincial windpower planning	Ben Tre	2015		Ben Tre DOIT	✓			
SOLAR POWER PROJECTS								
Song Binh	Ninh Thuan	2016-2018	50	Hydropower PMB 5 - EVN	✓	✓		
Da Mi	Binh Thuan	2016-2019	47.5	Da Nhim - Ham Thuan - Da Mi Hydropower JSC	✓	✓	✓	
Phuoc Thai	Ninh Thuan	2016-2020	200	Hydropower PMB 5 - EVN	✓	✓		
AMI Khanh Hoa	Khanh Hoa	2017	50	AMI Khanh Hoa Energy JSC	✓	✓		✓
Nhon Hai	Ninh Thuan	2017-2019	35	Licogi 16	✓	✓		
Se San 4	Kon Tum	2017-2019	49	Hydropower PMB 1 - EVN	✓	✓		
Thac Mo	Binh Phuoc	2017-2019	49	Thac Mo Hydropower JSC	✓	✓		
Van Ninh	Khanh Hoa	2018	200	Hanwha, KN Cam Ranh Co., Ltd	✓			
My Son - Hoan Loc Viet	Ninh Thuan	2018-2019	49	My Son - Hoan Loc Viet Solar JSC	✓	✓	✓	
Chu Ngoc	Gia Lai	2019	40	Licogi 16	✓	✓		✓
Phong Phu	Binh Thuan	2019	42	Trina Solar Co. Ltd			✓	✓
Song Luy 1	Binh Thuan	2019	47.5	Binh Thuan PV Solar JSC	✓	✓	✓	
Vinh Hao 6	Binh Thuan	2019	49	FECON JSC		✓	✓	
Phuoc Huu	Ninh Thuan	2019	50	Nha Trang Bay Investment JSC	✓	✓		
Ninh Phuoc 6.1, 6.2	Ninh Thuan	2019	7+50	Ninh Thuan Renewable & Agriculture JSC	✓	✓		
BIM 2, 3	Ninh Thuan	2019	250+50	Bim Group	✓			

RENEWABLE ENERGY CONSULTING CAPABILITY

LIST OF TYPICAL RENEWABLE ENERGY PROJECTS

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT	STAGES A	B	C	D
Solar Park 1,2	Long An	2019-2020	50	Solar Energy LA & Long An Solar Park JSC			✓	
Solar Park 3,4	Long An	2019-2020	50	Solar Energy LA & Long An Solar Park JSC			✓	✓
Trung Nam - Thuan Nam	Ninh Thuan	2019-2020	450	Phuoc Minh Solar JSC	✓	✓	✓	✓
Tra O Lagoon	Binh Dinh	2020	50	VN Renewable Energy JSC	✓		✓	✓
Ninh Thuan provincial solar power potential planning	Ninh Thuan	2018		Ninh Thuan DOIT	✓			

NEW ENERGY CONSULTING CAPABILITY



NEW ENERGY CONSULTING CAPABILITY

SCOPE OF WORKS

- Investment project proposal for Green Hydrogen Production Plant Complex;
- Calculation and proposal of green power supply solutions for industrial parks;
- Research report on co-firing and CO2 storage solutions in thermal power plants.



Ca Na Green Energy Complex (Ninh Thuan)

TYPICAL PROJECTS

A: Pre-feasibility study (Pre-FS)

B: Feasibility study (FS)

C: Technical design (TD)

D: Detailed design (DD)

PROJECT	LOCATION	PERIOD	CLIENT	STAGES A	B	C	D
GREEN HYDROGEN & AMMONIA							
Study on Hydrogen production in Vietnam	Vietnam	2021-2022	SK E&S Co., Ltd	✓			
Tra Vinh Green Energy Complex	Tra Vinh	2022-2023	Trung Nam Group	✓			
Ca Na Green Energy Complex	Ninh Thuan	2022-2023	Trung Nam Group	✓			
Soc Trang Green Energy Complex	Soc Trang	2022-2023	Trung Nam Group	✓			
Southern Van Phong Green Energy Complex	Khanh Hoa	2022-2023	Trung Nam Group	✓			
Ben Tre Green Energy Complex	Ben Tre	2022-2023	Trung Nam Group	✓			
Pilot project on Green Hydrogen plant in Thuan Nam, Vietnam	Ninh Thuan	2022-2023	Trung Nam Group	✓			
Thuan Nam 11 solar power plant producing Green Hydrogen	Ninh Thuan	2023	T&T Oil, Coal & Gas Import Export JSC	✓			
General study on the global Hydrogen market and forecast of Hydrogen market to 2030	Vietnam	2023	EVN	✓			
Research on developing a green Ammonia supply chain for power generation in Vietnam	Vietnam	2023-2024	EVN	✓			
Hamburg - Ben Tre Energy Complex	Ben Tre	2023-2024	Hamburg Ben Tre Wind Power JSC	✓			

NEW ENERGY CONSULTING CAPABILITY

PROJECT	LOCATION	PERIOD	CLIENT	STAGES A	B	C	D
GREEN HYDROGEN & AMMONIA							
Green Growth pilot project on co-firing biomass at TKV Power's thermal power plants	Vietnam	2023-2024	TKV Power	✓			
Pilot project on co-firing Ammonia and Carbon Capture - Utilization at thermal power plants	Vietnam	2023-2024	EVNGENCO1	✓			
Green Hydrogen production complex and general port	Binh Dinh	2024	Mandala Group JSC	✓			

THERMAL POWER CONSULTING CAPABILITY



THERMAL POWER CONSULTING CAPABILITY

With dynamic spirit and professional working style, EVNPECC4 thoroughly understand and wish to bring practical values to clients with the best engineering and operation solutions.

SCOPE OF WORKS

• Consulting on designing of thermal power plant: site planning, detailed planning for thermal power centers. Preparation, review, evaluation of investment report, tender document, request for proposal, FS, basic design, technical design, detailed design of different systems of thermal power plants.
• Preparation, evaluation of design documents, tender document, request for proposal of new energy plants.
• Consulting on construction supervision and project management.
• Consulting on power plants' O&M.

EXPERIENCE

• Supplementation planning, Pre-FS/FS report for thermal power plants, LNG, biomass with installed capacity from 20MW to 5,400MW.
• Engineering appraisal for 7 thermal power plants, LNG with total capacity up to 6,000MW.
• Consulting to Clients about optimization solution, reliability enhancement, performance improvement, cost optimization, O&M for over 10 thermal power plants.
• Provided construction supervision and project management support to Investors for 2 thermal power plants.

TYPICAL COAL-FIRED THERMAL POWER PROJECTS



Cong Thanh coal-fired thermal power plant

Location: Thanh Hoa
Installed capacity: 600 MW
Project classification: Class I
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- EPC bids evaluation



Vinh Tan thermal power complex

Location: Binh Thuan
Installed capacity: 5,400 MW
Project classification: Class I
Scope of works:
- Preparation of revised planning
- Survey, infrastructure design (power, road, operation building)
- FS Appraisal of Vinh Tan TPP
- Vinh Tan 4 extension's EPC contract management

THERMAL POWER CONSULTING CAPABILITY

TYPICAL LNG THERMAL POWER PROJECTS



Ca Na LNG thermal power plant
Location: Ninh Thuan
Installed capacity: 6,000 MW
Project classification: Special class
Scope of works:
- Survey, site selection report
- Pre-feasibility study
- Environmental impacts assessment



Nhà máy Nhiệt điện Ô Môn III
Địa điểm: Cần Thơ
Công suất: 1.050 MW
Cấp công trình: Cấp I
Phạm vi công việc:
- Thẩm tra BCNCKT



Nghi Son LNG thermal power plant
Location: Thanh Hoa
Installed capacity: 1,500 MW
Scope of works:
- Preparation of Investment Proposal Report
- Preparation of bid document

THERMAL POWER CONSULTING CAPABILITY

TYPICAL WASTE-TO-ENERGY AND BIOMASS POWER PROJECTS



Khanh An wood-fired power plant
Location: Ca Mau
Installed capacity: 2x12 MW
Scope of work:
- Feasibility study (FS) - Basic Design
- Specialized reports



National Plan for solid waste-to-energy development to 2025, with vision to 2030
Scope of work:
- Masterplan supplementation report
- Environmental Impact Assessment



Seraphin waste-to-energy power plant
Location: Hanoi
Waste processing capacity: 2,250 tons/day
Installed capacity: 37 MW
Scope of work:
- Feasibility study (FS) - Technical Design
- Specialized reports



Bac Giang waste-to-energy power plant
Location: Bac Giang
Waste processing capacity: 750 tons/day
Installed capacity: 12 MW
Scope of work:
- Masterplan supplementation report
- Feasibility study (FS)



Combined Heat and Power (CHP) Project from selected sugar mills in Vietnam:
- Lam Son sugar cane JSC in Thanh Hoa
- Nghe An sugar mill (NASUCO) in Nghe An

Scope of work:
- Pre-feasibility study

THERMAL POWER CONSULTING CAPABILITY

TYPICAL WASTE-TO-ENERGY AND BIOMASS POWER PROJECTS



Tam Sinh Nghia Cu Chi W2E TPP

Location: Ho Chi Minh City
Waste processing capacity: 2,600 tons/day
Installed capacity: 60MW
Project Classification: Special Class
Scope of work:
- Adjusted FS preparation
- Detailed design preparation



Tam Sinh Nghia Long An W2E TPP

Location: Ho Chi Minh City
Waste processing capacity: 500 tons/day
Installed capacity: 10MW
Project Classification: Special Class
Scope of work:
- FS preparation

THERMAL POWER PLANTS' ENVIRONMENTAL SYSTEM UPGRADE PROJECTS



Vinh Tan 2 Thermal Power Plant

ESP System Upgrade and Renovation



Power Plant under Bai Bang Paper Mill

Environmental Treatment System Renovation



Vung Ang 1 Thermal Power Plant

Location: Ha Tinh
Project Classification: Class II
Scope of work:
- Prepare an investment proposal for upgrading and renovating the exhaust gas treatment system to comply with Vietnam Standard 19:2004

THERMAL POWER PLANTS' ENVIRONMENTAL SYSTEM UPGRADE PROJECTS



Duyen Hai 1 & 3 Thermal Power Plant

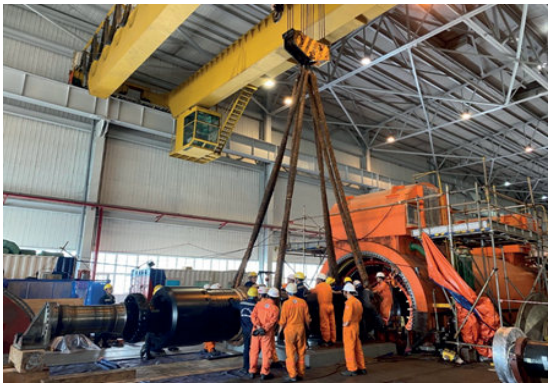
Location: Vinh Long
Project Classification: Class II
Scope of work:
- Prepare an investment proposal for upgrading and renovating the exhaust gas treatment system to comply with Vietnam Standard 19:2004

TYPICAL O&M PROJECTS



Uong Bi Thermal Power Plant

Preparing techno-economic report for major repairs



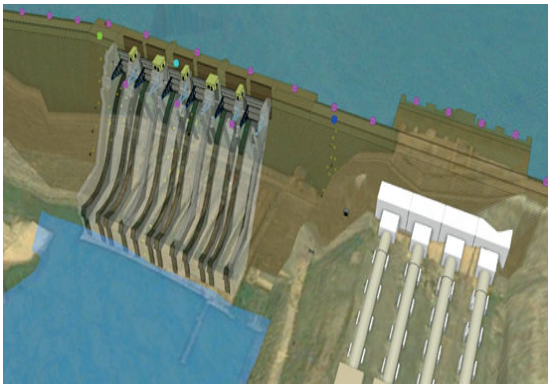
Vinh Tan 2 Thermal Power Plant

Proposing and implementing solutions to enhance operational reliability and efficiency



Duyen Hai 1 Thermal Power Plant

Surveying and evaluating key systems of the Plant



Digital transformation for EVNGENCO2

Consulting on preparing a master plan for EVNGENCO2's digital transformation program

LIST OF TYPICAL THERMAL POWER AND BIOMASS PROJECTS

A: Pre-feasibility study (Pre-FS) **B:** Feasibility study (FS)

C: Technical design (TD) **D:** Detailed design (DD)

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT	STAGES A	B	C	D
ENGINEERING								
Cong Thanh TPP	Thanh Hoa	2010-2019	600	Cong Thanh Thermal Power JSC	✓	✓		
Thai Binh TPP	Thai Binh	2015-2016	600	EVN				✓
Ca Na LNG	Ninh Thuan	2020	1,500	Gulf Energy Development Public Co., Ltd	✓			
Van Phong LNG	Khanh Hoa	2020	2,600	Electric Power Development Co., Ltd.	✓			
Waste to Energy - Khanh Hoa province	Khanh Hoa	2020	500 tons /days	268 Viet Nam Energy – Environment JSC	✓			
Waste to Energy - Quang Nam province	Quang Nam	2020	500 tons /days	268 Viet Nam Energy – Environment JSC	✓			
Tu Nghia Biomass	Quang Ngai	2021	15	PECC4	✓			
Dai Loc Biomass	Quang Nam	2021	18.5	PECC4	✓			
Hon La Biomass	Quang Binh	2021	20	Byucksan Engineering Co., Ltd (BSE)	✓			
Khanh An Biomass	Ca Mau	2021	24	Intracom		✓		
Khanh Hoa W2E Plant	Khanh Hoa	2023	25	AMACCAO Group	✓			
Quang Binh Biomass	Quang Binh	2023	50	eRex International	✓			
Thanh Hoa 1&2 Biomass	Thanh Hoa	2023	110	eRex International	✓			
Dak Lak Biomass	Dak Lak	2023	125	eRex International	✓			
Seraphin Waste-to-Energy Plant	Hanoi	2023-2024	2,250 tons /days	SERAPHIN Green Environment Technology JSC		✓	✓	
Bac Giang Waste-to-Energy Plant	Bac Giang	2023-2024	750 tons /days	SERAPHIN Green Environment Technology JSC	✓		✓	
Nghi Son LNG TPP	Thanh Hoa	2023-2024	1.500	SK E&S Co., Ltd	✓			
Ben Tre W2E Plant	Ben Tre	2024	15	AMACCAO Group	✓			
Dinh Quan W2E Plant - Phase 1	Dong Nai	2024	18,5	AMACCAO Group	✓			
Nghe An W2E Plant	Nghe An	2024	30	AMACCAO Group	✓			
Khanh Son W2E Plant	Da Nang	2024-2025	18	AMACCAO Group		✓		

THERMAL POWER CONSULTING CAPABILITY

LIST OF TYPICAL THERMAL POWER AND BIOMASS PROJECTS

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT	STAGES A	B	C	D
ENGINEERING								
Tam Sinh Nghia W2E Plant	Long An	2024-2025	10	BCG Energy		✓		
Tam Sinh Nghia Cu Chi W2E Plant	HCM	2024-2026	60	BCG Energy		✓		✓
Can Tho Biomass	Can Tho	2025 - Ongoing	150	VNPD	✓			
National planning of power source development using solid waste up to 2025, with vision to 2030	Vietnam	2015	-	Bureau of Energy – MOIT	✓			
APPRAISAL								
Mien Trung CCGT	Quang Ngai	2010-2014	2,200	Vietnam Oil and Gas Group		✓		
Vinh Tan TPP 2 - Extension of coal storage roof	Binh Thuan	2017-2020	2,200	EVN		✓		
Uong Bi TPP	Quang Ninh	2018	300	GENCO1		✓		✓
Vinh Tan TPP 4, 4 extension	Binh Thuan	2018-2019	2,200	EVN		✓	✓	✓
Duyen Hai TPPs 1, 3, 3 extension	Tra Vinh	2020-2021 2025-2026	2,600	EVN		✓		
O Mon III TPP	Can Tho	2024-2025	1,050	PVN		✓		

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT	SCOPE OF SERVICES
OPERATION AND MAINTENANCE (O&M)					
Report on O&M for EVNGENCO1's power plants	Vietnam	2015-2016	-	EVNGENCO1	O&M
Uong Bi TPP	Quang Ninh	2015-2016	630	EVNGENCO1	Technical & economic analysis and evaluation report of unit's main equipment renovation. Preparation of Techno-Economic Report for project of transforming auxiliary material from FO/DO - 300 & 330 MW units .

THERMAL POWER CONSULTING CAPABILITY

LIST OF TYPICAL THERMAL POWER AND BIOMASS PROJECTS

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT	SCOPE OF SERVICES
OPERATION AND MAINTENANCE (O&M)					
Pha Lai TPP	Hai Duong	2015-2017	4x110	Pha Lai Thermal Power Company	Preparation of Tender document, FS for equipment renovation and upgrade of Line 1 under Investment project. Preparation of Techno - Economic Report for project of transforming auxiliary material from FO/DO – Line 1, 2.
Optimization and reliability enhancement of TPPs' boiler	Vietnam	2016	1,200	EVNGENCO3	Optimization and reliability enhancement of TPPs' boiler.
Ninh Binh TPP	Ninh Binh	2016-2017	4x25	Ninh Binh Thermal Power JSC	Performance enhancement, cost optimization.
Vinh Tan 2 TPP	Binh Thuan	2016-2017 2025	2x600	EVNGENCO3	Optimization and reliability enhancement for boiler. Survey, assessment of plant performance and its systems. Survey, preparation of Techno - Economic report for Dust Collection System Renovation.
Vung Ang 1 TPP	Ha Tinh	2016-2018 2025	1,200	Vietnam Oil and Gas Group	Preparation of O&M norm (permanent and periodic) Investment proposal preparation for upgrading and renovating the exhaust gas treatment system
Ca Mau 1&2 and Nhon Trach TPPs	Ha Tinh	2016-2020	1,200	Vietnam Oil and Gas Group	Preparation of inventory norm for O&M
Duyen Hai 1 TPP	Tra Vinh	2019 2025-2026	622.5	Duyen Hai Thermal Power Co.	Survey, assessment of plant's crucial system. Appraisal of FS for upgrading and renovating the exhaust gas treatment system.
Lam Dong Aluminum	Lam Dong	2019-2020	-	Lam Dong Aluminum One Member Co., Ltd	Refurbishing boiler 01, 02 - Thermal power plant.
Thermal Power Plants of TKV	Vietnam	2021	-	TKV	Preparation of TPPs' O&M norm.
Vinh Tan 4 TPP	Vietnam	2021	2x600	EVN	Survey, preparation of Techno-Economic report for monitoring system of coal crushing units.

LIST OF TYPICAL THERMAL POWER AND BIOMASS PROJECTS

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT	SCOPE OF SERVICES
OPERATION AND MAINTENANCE (O&M)					
Power Plant under Bai Bang Paper Mill	Phu Tho	2025	-	Vietnam Paper Corporation	FS preparation for investment in a Flue Gas Treatment System for Recovery Boiler.
Nghi Son 1 TPP	Thanh Hoa	2025-2026	2x600	EVNGENCO1	FS Appraisal for investment in Flue Gas Treatment
Duyen Hai 3 TPP	Vinh Long	2025-2026	1,245	EVNGENCO1	Appraisal of FS for upgrading and renovating the exhaust gas treatment system.
Thai Binh TPP	Hung Yen	2025-2026	600	EVNPMB2	Appraisal of FS for upgrading and renovating the exhaust gas treatment system.

POWER GRID CONSULTING CAPABILITY



POWER GRID CONSULTING CAPABILITY

For 50 years of experience in the field of power grids engineering consulting, EVNPECC4 currently is a strong service provider of survey, engineering for medium-voltage, high-voltage and 500kV super high-voltage power grids. With the rich experienced engineers and experts, EVNPECC4 is having many advantages in researching, calculating and proposing optimal solutions for power system operation.

SCOPE OF WORKS

- Territorial, provincial, municipal power development plans.
- Engineering for substations, transmission and distribution lines up to 500kV in all stages: pre-FS report, FS, technical design, detailed design, cost estimation, tender documents, bid evaluation.
- Building Information Modeling (BIM) Designing.
- Engineering appraisal.
- Participation in construction processes development and researching related topics.

EXPERIENCE

Transmission line

- More than 200 projects of 110/220/500kV overhead transmission line nationwide with over 2,500 km of 500kV transmission lines, over 5,000 km of 110/220kV transmission lines.
- Many power supply projects with over 10,000 km of 22/35kV distribution power network.
- Underground and submarine power cables to provide power for islands.

Substation

- More than 100 projects of 110/220kV substation.
- More than 20 projects of 500kV substation.
- Many distribution substations.

Power system optimization

- Completed numerous studies on optimal calculation of series capacitor and shunt reactor for 220/500kV power grids.
- Completed numerous studies on researching solutions for mitigating subsynchronous resonance affecting power plants.
- Proposing the Electricity Industry and Government to supplement the planning of 220/500kV power grid projects to enhance the reliability in the operation of Vietnam power system, ensure national energy security, such as: 500kV Pleiku - My Phuoc - Cau Bong transmission line, 500kV Quang Trach - Doc Soi transmission line.

TYPICAL 500kV TRANSMISSION LINE PROJECTS

500kV Quang Trach – Doc Soi T/L



Location: Quang Binh, Quang Tri, Thua Thien Hue, Quang Nam, Quang Ngai, Da Nang
Project classification: Special class
Voltage level: 500kV
Number of circuit: 02
Length: 500 km
Scope of works:
- Masterplan supplementation report
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design, bidding document
- Measuring cadastral maps for compensation and site clearance



500kV Pleiku - My Phuoc - Cau Bong T/L

Location: Gia Lai, Dak Lak, Dak Nong, Binh Phuoc, Binh Duong, Ho Chi Minh City
Project classification: Special class
Voltage level: 500kV
Number of circuit: 02
Length: 450 km
Scope of works:
- Masterplan supplementation report
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Specific reports for capital mobilization
- Survey, technical design - total cost estimate, detailed design, bidding document
- Measuring cadastral maps for compensation and site clearance

TYPICAL 500KV TRANSMISSION LINE PROJECTS



500kV Nam Dinh I TPP – Thanh Hoa T/L

Location: Nam Dinh, Ninh Binh, Thanh Hoa
Project classification: Special class
Voltage level: 500kV
Number of circuit: 02
Length: 74,4 km
Scope of works:
- Masterplan supplementation report
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design, bidding document
- Measuring cadastral maps for compensation and site clearance
- BIM design for Technical Design and Detailed Design

500kV Nam Dinh I TPP – Pho Noi T/L

Location: Nam Dinh, Thai Binh, Hai Duong, Hung Yen
Project classification: Special class
Voltage level: 500kV
Number of circuit: 02
Length: 126,9 km
Scope of works:
- Masterplan supplementation report
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design, bidding document
- Measuring cadastral maps for compensation and site clearance
- BIM design for Technical Design and Detailed Design



POWER GRID CONSULTING CAPABILITY

TYPICAL 220KV TRANSMISSION LINE PROJECTS

220kV Hai Ha – Cam Pha T/L

Location: Quang Ninh
Project classification: Class I
Voltage level: 220kV
Number of circuit: 02
Length: 80 km
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design
- Detailed planning for construction





220kV Nha Trang – Thap Cham T/L

Location: Ninh Thuan, Khanh Hoa
Project classification: Class I
Voltage level: 220kV
Number of circuit: 02
Length: 80 km
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design

220kV Quang Ngai – Quy Nhon T/L

Location: Binh Dinh, Quang Ngai
Project classification: Class I
Voltage level: 220kV
Number of circuit: 02
Length: 140 km
Scope of works:
- Survey, feasibility study (FS)
- Survey, technical design - total cost estimate, detailed design
- Environmental impacts assessment
- Specific reports for capital mobilization



POWER GRID CONSULTING CAPABILITY

TYPICAL 500KV SUBSTATION PROJECTS





500kV Lai Chau substation

Location: Lai Chau
Project classification: Special class
Voltage level: 500kV
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design
- Measuring cadastral maps for compensation and site clearance

500kV Dak Nong substation and branch

Location: Dak Nong
Project classification: Special class
Voltage level: 500kV
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design
- Measuring cadastral maps for compensation and site clearance



500kV Pleiku 2 substation

Location: Gia Lai
Project classification: Special class
Voltage level: 500kV
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design, bidding document

POWER GRID CONSULTING CAPABILITY

TYPICAL 220KV SUBSTATION PROJECTS

220kV Thap Cham substation

Location: Ninh Thuan
Project classification: Class I
Voltage level: 220kV
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design





220kV Phu My substation

Location: Binh Dinh
Project classification: Class I
Voltage level: 220kV
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design



220kV Thai Thuy substation

Location: Thai Binh
Project classification: Class I
Voltage level: 220kV
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design, detailed design

TYPICAL 110KV SUBSTATION PROJECTS

110kV Phu My City substation (110kV Tan Hanh substation) and connecting transmission line

Location: Ba Ria - Vung Tau
Project classification: Class II
Voltage level: 110kV
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, detailed design, bidding documents preparation





110kV Vinh Quang substation and connecting transmission line

Location: Rach Gia - Kien Giang
Project classification: Class II
Voltage level: 110kV
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, detailed design, bidding documents preparation

110kV Tanh Linh and connecting transmission line

Location: Binh Thuan
Project classification: Class II
Voltage level: 110kV
Scope of works:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, detailed design, bidding documents preparation



TYPICAL SUBMARINE CABLE PROJECTS

Supplying power from national power system to Ly Son island district

Location: Quang Ngai
Voltage level: 22kV
Newly constructing 26km - medium voltage submarine cable route
Newly constructing 13.5km - medium voltage 22kV overhead transmission line
Scope of works:
- Study for submarine cable route selection
- Survey of submarine cable route, mainland and island grids
- Feasibility study (FS)
- Environmental impacts assessment





Supplying power from national grid to Cu Lao Cham island via submarine cable

Location: Quang Nam
Voltage level: 22kV
Newly constructing 17.4km - medium voltage submarine cable route
Newly constructing 20km - medium voltage 22kV overhead transmission line
Scope of works:
- Study for submarine cable route selection
- Survey of submarine cable route, mainland and island grids
- Feasibility study (FS)
- Environmental impacts assessment

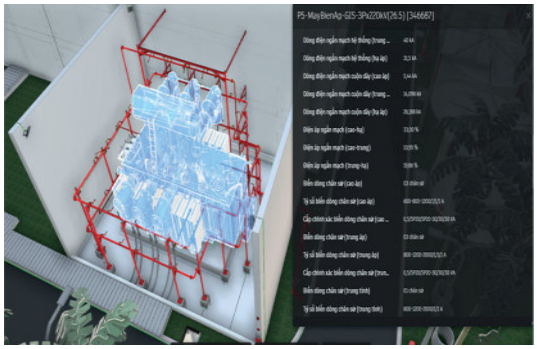
TYPICAL BIM PROJECTS

220kV Hai Chau Substation & 220kV Hoa Khanh - Hai Chau T/L

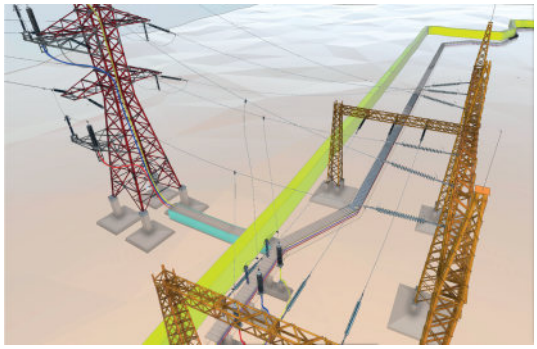


Overall of 220kV Hai Chau Substation (Front)

Location: Da Nang
Project classification: Class I
Voltage level: 220kV
Scope of work:
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design, bidding document
- Measuring cadastral maps for compensation and site clearance
- BIM design for Detailed Design



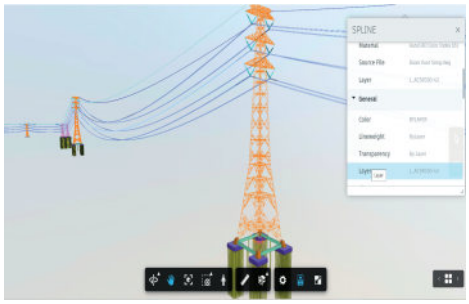
Information of the transformer

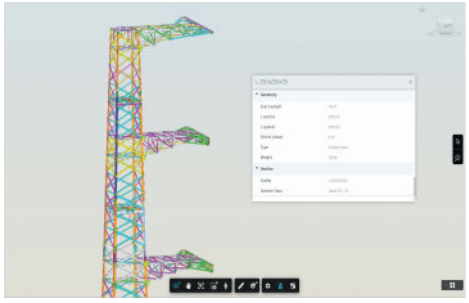


Tower connecting to the substation

500kV Nam Dinh 1 TPP - Pho Noi T/L

Location: Nam Dinh, Thai Binh, Hai Duong, Hung Yen
Project classification: Special class
Voltage level: 500kV
Number of circuit: 02
Length: 126.9 km
Scope of works:
- Masterplan supplementation report
- Survey, feasibility study (FS)
- Environmental impacts assessment
- Survey, technical design - total cost estimate, detailed design, bidding document
- Measuring cadastral maps for compensation and site clearance
- BIM design for Technical Design and Detailed Design





POWER GRID CONSULTING CAPABILITY

LIST OF TYPICAL POWER GRID PROJECTS

A: Pre-feasibility study (Pre-FS) **B:** Feasibility study (FS)

C: Technical design (TD) **D:** Detailed design (DD)

PROJECT	PERIOD	SCALE (KM)	CLIENT	STAGES			
				A	B	C	D
TRANSMISSION LINE (T/L)							
500kV North - South T/L - Circuit 1 (Segment of Da Nang - Buon Ma Thuot)	1992-1995	436	EVN			✓	✓
500kV North - South T/L - Circuit 2 (Segment of Ha Tinh - Nho Quan)	2003-2005	277	EVN		✓	✓	✓
500kV Quang Ninh - Thuong Tin T/L	2003-2010	2 x 148.9	EVN		✓	✓	✓
500kV Quang Ninh - Mong Duong T/L	2004-2014	2 x 25.15	EVN		✓	✓	✓
500kV Ban Sok - Pleiku T/L	2009-2013	2 x 110	EVN		✓		
500kV Pleiku - My Phuoc - Cau Bong T/L	2011-2016	442	EVN		✓	✓	✓
500kV Nam Dinh I TPP - Pho Noi T/L	2016-2024	2 x 126.9	EVN	✓	✓	✓	✓
500kV Nam Dinh I TPP - Thanh Hoa T/L	2016-2024	2 x 74.4	EVN	✓	✓	✓	✓
500kV Quang Trach - Doc Soi T/L	2018-2021	2 x 500	EVN	✓	✓	✓	✓
220kV Hoa Khanh - Hue T/L	2000-2002	2 x 82	EVN		✓	✓	✓
220kV Da Nhim - Nha Trang T/L	2002-2003	1 x 113	EVN		✓	✓	✓
220kV Lower Song Ba - Tuy Hoa T/L	2002-2008	2 x 35.5	EVN		✓		✓
220kV Pleiku - KrongBuk T/L	2002-2008	170	EVN		✓	✓	✓
220kV Quy Nhon - Tuy Hoa T/L	2002-2010	2 x 92.5	EVN		✓	✓	✓
220kV Tuy Hoa - Nha Trang T/L	2002-2010	2 x 135	EVN		✓	✓	✓
220kV Ban La - Vinh T/L	2002-2012	2 x 167	EVN		✓	✓	✓
220kV Dong Hoi - Hue T/L	2003-2011	173	EVN		✓	✓	✓
220kV Buon Kuop - Buon Tua Srah T/L	2004-2009	1 x 46	EVN		✓	✓	✓
220kV Buon Kuop - KrongBuk T/L	2004-2009	2 x 59	EVN		✓	✓	✓
220kV Buon Tua Srah - Dak Nong T/L	2004-2009	1 x 66	EVN		✓	✓	✓
220kV Da Nang - Doc Soi T/L	2004-2013	2 x 106	EVN		✓	✓	✓
220kV Tuyen Quang - Thai Nguyen T/L	2006-2007	2 x 77	EVN		✓	✓	✓
220kV XeKaMan 3 - Thanh My T/L	2007-2011	1 x 92.3	EVN		✓	✓	✓
220kV Upper Kon Tum - Quang Ngai T/L	2007-2020	2 x 76	EVN		✓	✓	✓
220kV Doc Soi - Quang Ngai T/L	2007-2020	2 x 59	EVN		✓	✓	✓
220kV KrongBuk - Nha Trang T/L	2008-2018	2 x 148	EVN		✓	✓	✓
220kV T/L connecting DakMi 4 HPP	2008-2021	2 x 60	IDICO		✓	✓	✓
220kV Phan Thiet - Phu My 2 T/L and extending 220kV feeders	2009-2015	2 x 144	EVN		✓	✓	✓

POWER GRID CONSULTING CAPABILITY

LIST OF TYPICAL POWER GRID PROJECTS

PROJECT	PERIOD	SCALE (KM)	CLIENT	STAGES A	B	C	D
220kV Quang Ngai - Quy Nhon T/L	2009-2015	2 x 147	EVN		✓	✓	✓
220kV Vinh Tan - Thap Cham T/L	2009-2016	2 x 64	EVN		✓	✓	✓
220kV Vinh Tan - Phan Thiet T/L	2009-2016	2 x 92	EVN		✓	✓	✓
220kV An Khe - Quy Nhon T/L	2010-2015	2 x 52	EVN		✓		
220kV T/L connecting Trung Son HPP into national power system	2010-2015	2 x 65	EVN		✓	✓	✓
220kV Son Ha - Doc Soi T/L	2011-2014	2 x 46	EVN		✓		
220kV A Vuong 1 - Hoa Khanh T/L	2012-2013	2 x 79	EVN		✓	✓	✓

PROJECT	PERIOD	SCALE	CLIENT	STAGES A	B	C	D
SUBSTATION							
500kV Quang Ninh substation	2003-2010	TX 500/220/35kV-2x450MVA 220/110/22kV-1x125MVA	EVN		✓	✓	✓
500kV DakNong substation and Branch	2004-2012	TX 500/220/35kV-2x450MVA	EVN		✓	✓	✓
500kV Pho Noi substation and connecting lines	2008-2016	TX 2x600MVA	EVN		✓		
500kV Thanh My substation and Branch	2009-2011	TX 500/220/35kV-2x450MVA	EVN		✓	✓	✓
Upgrading capacity of 500kV Pleiku substation	2021	TX 500/220/35kV-450MVA TX 220/110/22kV-125MVA	EVN		✓	✓	✓
220kV Quy Nhon substation	1994-1995	TX 220kV-125MVA	EVN		✓	✓	✓
220kV Nha Trang substation	1997-1999	TX 220kV-2x25MVA	EVN		✓	✓	✓
220kV KrongBuk substation	1997-1999	TX 220/110/22kV-2x63MVA	EVN		✓	✓	✓
220kV Doc Soi substation	1997-2003	TX 220/110/10.5kV-2x63MVA	EVN		✓	✓	✓
220kV Hoa Khanh substation	2000-2002	TX 220/110/10kV-2x125MVA	EVN		✓	✓	✓
220kV Do Luong substation and Branch	2005-2007	TX 220/110/22kV-2x125MVA	EVN		✓	✓	✓
220kV Dong Ha substation and Branch	2005-2010	TX 220/110kV-125MVA	EVN		✓	✓	✓
220kV Tuy Hoa substation	2006-2009	TX 220/110kV-125MVA	EVN		✓	✓	✓
220kV Tam Ky substation and Branch	2007-2010	TX 220/110kV-125MVA	EVN		✓	✓	✓
220kV Tuyen Quang substation	2007-2014	TX 220/110/22kV-125MVA	EVN		✓	✓	✓
220kV Ngu Hanh Son substation and 220kV Da Nang - District 3 T/L	2007-2016	TX 220/110kV-125MVA	EVN		✓	✓	✓

POWER GRID CONSULTING CAPABILITY

LIST OF TYPICAL POWER GRID PROJECTS

PROJECT	PERIOD	SCALE	CLIENT	STAGES			
				A	B	C	D
220kV Thap Cham substation and connecting T/L	2009-2016	TX 220/110kV-125MVA	EVN		✓	✓	✓
220kV Thanh My substation	2011-2012	TX 220/110kV-1x125MVA	EVN		✓	✓	✓
220kV Son Ha substation	2011-2017	TX 220/110kV-2x125MVA	EVN		✓	✓	✓
220kV Song Tranh 2 substation	2011-2020	TX 2x125MVA	EVN		✓		
220kV Dung Quat substation	2014-2016	TX 220/110kV-125MVA	EVN		✓	✓	✓
110 kV Phuoc Long substation and connecting T/L	2013-2021	TX: 1x63MVA	EVN		✓		✓
110 kV Tanh Linh substation and connecting T/L	2015-2023	TX: 1x40MVA	EVN		✓		✓
110 kV Phu My City substation and connecting T/L	2015-2024	TX: 1x63MVA	EVN		✓		✓
110 kV Bao Loc 2 substation and connecting T/L	2016-2023	TX: 1x63MVA	EVN		✓		✓
110 kV Suoi Ngo substation and connecting T/L	2016-2024	TX: 1x63MVA	EVN		✓		✓
110 kV Vinh Quang substation and connecting T/L	2017-2023	TX: 1x40MVA	EVN		✓		✓
110 kV Bu Gia Map substation and connecting T/L	2018-2022	TX: 1x40MVA	EVN		✓		✓

SITE SUPERVISION CONSULTING CAPABILITY



SITE SUPERVISION CONSULTING CAPABILITY

POWER GRID PROJECTS



500kV T/L connecting Nghi Son TPP into national power system



500kV Nam Dinh 1 TPP - Thanh Hoa T/L



500kV Trung Nam - Thuan Nam Substation & 500kV/220kV T/L (Ninh Thuan)

POWER SOURCE PROJECTS



Hung Hai WPP (Gia Lai)



Vinh Tan 4 Extension TPP (Binh Thuan)



Song Bung 4 HPP (Quang Nam)

SITE SUPERVISION CONSULTING CAPABILITY

EVNPECC4 has boasted extensive experience in providing construction and survey supervision consulting services for over 200 energy projects across diverse fields including hydropower, thermal power, power grid and renewable energy.

TYPICAL PROJECTS

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT
SITE SUPERVISION FOR HYDROPOWER PROJECTS				
Reservoir C (Upgrading capacity of Vinh Son HPP)	Binh Dinh	2003-2006	66	EVN
Song Ba Ha	Phu Yen	2004-2008	220	EVN
Srepok 4	Dak Lak	2005-2009	70	Dai Hai Power Investment & Development JSC
Srepok 3	Dak Nong & Dak Lak	2005-2009	220	EVN
An Khe - KaNak	Gia Lai & Binh Dinh	2006-2009	173	EVN
Song Bung 4	Quang Nam	2009-2013	164	EVN
Dong Nai 2	Lam Dong	2009-2015	70	Trung Nam Hydropower JSC
SITE SUPERVISION FOR THERMAL POWER PROJECTS				
Infrastructure of Vinh Tan power complex	Binh Thuan	2009-2019	5,400	EVN
Vinh Tan 4 Extension TPP	Binh Thuan	2016-2019	600	EVN
Vinh Tan 2 TPP	Binh Thuan	2016-2021	1,244	EVN
SITE SUPERVISION FOR WIND POWER PROJECTS				
Thuan Nhien Phong	Ninh Thuan	2021	32	Thuan Nhien Phong 1 Wind Power Co., Ltd.
Hung Hai Gia Lai	Gia Lai	2021-2022	100	Gia Lai Investment & Development JSC
SITE SUPERVISION FOR SOLAR POWER PROJECTS				
Phuoc Huu	Ninh Thuan	2019	50	Nha Trang Bay Investment JSC
Hong Phong 5.2	Binh Thuan	2020	48	Millennium Power JSC
Phan Lam	Binh Thuan	2020	49	Phan Lam Power JSC
KN Van Ninh	Khanh Hoa	2020	100	KV Van Ninh Solar Development & Investment Co., Ltd.
Trung Nam	Ninh Thuan	2020	450	Trung Nam - Thuan Nam Solar Power Co., Ltd.
Ea Sup - Xuan Thien	Dak Lak	2020	780	Xuan Thien - Dak Lak Co., Ltd

SITE SUPERVISION CONSULTING CAPABILITY

TYPICAL PROJECTS

PROJECT	PERIOD	SCALE	CLIENT
SITE SUPERVISION FOR TRANSMISSION LINE PROJECTS			
500kV T/L connecting Thang Long TPP	2016	4.15 km	EVN
500kV My Tho - Duc Hoa T/L	2017-2021	55.09 km	EVN
500kV T/L connecting Nghi Son TPP into national power system	2018-2021	39.6 km	EVN
Replacing 2nd ground wire on 500kV North-South T/L	2018-2022	1,554.5 km	EVN
500kV Duc Hoa - Chon Thanh T/L	2021-on going	104 km	EVN
500kV Monsoon - Thanh My T/L	2023-2024	44.71 km	EVN
500kV Nam Dinh I TPP - Thanh HoaT/L	2023-2024	74.4 km	EVN
500kV Quynh Luu - Thanh Hoa T/L	2024	91.8 km	EVN
220kV An Khe - Quy Nhon T/L - 2nd circuit + 1st circuit renovation	2015	46.11 km	EVN
220kV Ninh Binh - Nam Dinh T/L	2016-2017	34.7 km	EVN
220kV Thai Binh - Tien Hai - Truc Ninh T/L double circuit	2016-2017	42.68 km	EVN
220kV Hai Duong TPP T/L - 500kV Pho Noi substation	2019-2024	55.83 km	EVN
220kV Nam Sum - Nong Cong switching station (T/L segment in Vietnamese territory)	2022-2025	129.03 km	EVN

PROJECT	PERIOD	SCALE	CLIENT
SITE SUPERVISION FOR SUBSTATION PROJECTS			
500kV Viet Tri S/S	2016-2018	TX 500/220/35kV-450MVA	EVN
500kV Western Ha Noi S/S	2016-2019	TX 500/220/35kV-900MVA	EVN
500kV S/S and connecting lines - Trung Nam -Thuan Nam Solar Power Plant	2020	S/S 500/220/33kV-3x900MVA	Trung Nam - Thuan Nam Solar Power Co., Ltd.
500kV Xuan Thien - Ea Sup S/S	2020-2021	S/S 500/110/35kV-3x900MVA	Xuan Thien - Dak Lak Co., Ltd
500kV Van Phong S/S & connecting lines	2021 - on going	TX 500/220/35kV-2x900MVA	EVN
500kV Di Linh S/S Capacity Upgrading	2024 - on going	MBA 500/220/22kV-2x900MVA	EVN
500kV Hoa Binh S/S Capacity Upgrading	2025 - on going	MBA 500/220/35kV-2x900MVA	EVN
500kV Pho Noi S/S Capacity Upgrading	2025 - on going	MBA 500/220/35kV-900MVA	EVN

SITE SUPERVISION CONSULTING CAPABILITY

TYPICAL PROJECTS

PROJECT	PERIOD	SCALE	CLIENT
SITE SUPERVISION FOR SUBSTATION PROJECTS			
220kV Tuong Duong S/S & connecting lines	2021-on going	S/S 220/110/22kV-2x125MVA	EVN
220kV Ba Thien S/S & 220kV Viet Tri - Tam Duong - Ba Thien T/L	2021-on going	S/S 220/110/22kV-250MVA	EVN
220kV Pho Cao S/S & connecting lines	2022-2024	SS 220/110/22kV-2x250MVA	EVN
220kV Nghia Lo substation & 220kV Nghia Lo T/L - 500kV Viet Tri S/S	2022-2025	SS 220/110/22kV-250MVA	EVN
220kV Ninh Hoa S/S & connecting lines	2023-2025	SS 220/110/22kV-250MVA	EVN

ENVIRONMENTAL CONSULTING CAPABILITY



ENVIRONMENTAL CONSULTING CAPABILITY

SCOPE OF WORKS

• Consulting on survey and preparation of dossiers on livelihood impact issues during resettlement and relocation; impacts of contruction and operation on terrestrial and aquatic biodiversity, water environment and air quality.

• Conducting environmental baseline surveys and consulting on preparation of specialized reports on natural and social environment.

• Consulting on preparation of environmental impact assessment (EIA) reports for industrial, agricultural and planning fields.

• Consulting on preparation of environmental and social impact assessment (ESIA, EMP, EMDP, RP, RLDP, etc.) reports for capital mobilisation from international financial organisations.

• Consulting on preparation of compensation, relocation and resettlement dossiers; investigation, survey and preparation of soil, adaptation, rural agricultural planning maps.

• Consulting on the preparation of dossiers for conversion of forest use purposes.

• Consulting on the review of social and environmental reports.

EXPERIENCE

• Preparing environmental impact assessment reports for more than 50 power source projects and over 100 power grid projects.

• Preparing reports on environmental and social impact assessment (ESIA, EMP, EMDP, RP, RLDP, etc.) for many power sources and power grid projects for capital mobilisation purpose, typically:

- Hoi Xuan HPP - 90 MW
- Trung Son HPP - 260 MW
- Bac Ai PSHP - 1,200 MW
- Xekaman 1 HPP (Laos) - 322 MW
- Xekaman 3 HPP (Laos) - 250 MW
- 500kV Pleiku - My Phuoc - Cau Bong T/L - 442 km
- 500kV Hatxan (Laos) - Pleiku T/L - 93.5 km

TYPICAL PROJECTS





Environmental site survey





Environmental measurement and sampling





Community consultation

ENVIRONMENTAL CONSULTING CAPABILITY

ENVIRONMENTAL AND SOCIAL CONSULTING FOR TYPICAL PROJECTS

PROJECT	LOCATION	PERIOD	SCALE (MW)	CLIENT
RENEWABLE ENERGY				
Da Mi Floating SPP	Binh Thuan	2017	47.5	GENCO1
AMI SPP	Khanh Hoa	2017	50	AMI Khanh Hoa Energy JSC
Phuoc Huu SPP	Ninh Thuan	2017	50	Nha Trang Bay Construction Investment JSC
Binh Dai 1,2,3 WPP	Ben Tre	2019-2020	150	Mekong Wind Power JSC
Trung Nam SPP	Ninh Thuan	2020	450	Phuoc Minh Solar JSC
Hong Phong 1 WPP	Binh Thuan	2020-2021	40	Hong Phong 1 Wind Power JSC
CWP Hieu WPP	Kon Tum	2021	100	Hero Future Energies Asia Pte., Ltd
Hon Trau WPP	Binh Dinh	2023	2,000	PNE AG Group
HYDROPOWER				
Bac Ai PSHP	Ninh Thuan	2010-2013	1,200	EVN
Xekaman 1 & Xekaman Sanxay	Laos	2022-2023	322	Xekaman 1 Power Company Limited
Xekaman 3	Laos	2022-2023	250	Xekaman 3 Power Company Limited
Dak Drinh	Quang Ngai	2022-2023	125	DakDrinh Hydropower JSC
THERMAL POWER				
Mien Trung CCGT	Quang Nam	2010-2014	1,500	Vietnam Oil and Gas Group
Cong Thanh	Thanh Hoa	2010-2019	600	Cong Thanh Thermal Power JSC
Vinh Tan 4 extension	Binh Thuan	2018-2019	600	EVN

ENVIRONMENTAL AND SOCIAL CONSULTING FOR TYPICAL PROJECTS

PROJECT	PERIOD	SCALE	CLIENT
POWER GRID			
Supplying power from national grid to Ly Son island district via submarine cable	2013-2014	39.5 km	EVN
Supplying power from national grid to Cu Lao Cham island via submarine cable	2014-2015	37.4 km	EVN
500kV Nam Dinh I - Thanh Hoa T/L	2019-2021	74.4 km	EVN
500kV Vinh Tan - Van Phong T/L	2020	500 km	EVN
500kV Binh Duong 1 - Song May - Tan Dinh T/L	2021-2023	40 km	EVN
500kV Dak Nong substation	2004-2012	2x450MVA	EVN
500kV Pho Noi substation	2008-2016	2x600MVA	EVN
220kV Son Ha substation	2011-2017	2x125MVA	EVN

EPC, PMC
CAPABILITY



EPC, PMC CAPABILITY

TYPICAL PROJECTS (PMC):



Srepok 4A hydropower plant
Location: Dak Lak
Installed capacity: 64 MW
Project classification: Class I
Scope of work: Investment, construction and operation



Buon Kuop hydropower plant
220kV transformer installation project
Location: Dak Lak
Project classification: Class I
Scope of work: Project management



Song Bung 4 hydropower plant
Location: Quang Nam
Installed capacity: 156 MW
Main dam height: 114 m
Project classification: Class I
Scope of work:
- Review of Technical design
- Bidding process assistance
- Project construction supervision



110kV Bau Bang 2 substation & connection lines
Location: Binh Duong
Capacity: 110kV
Scope of work:
- Project management
- Construction and installation supervision of materials and equipment
- Application of BIM in project management and construction supervision

EPC, PMC CAPABILITY

Leveraging its expertise as a leading energy consulting firm and its extensive experience in investing and managing many power projects for Clients, EVNPECC4 has aimed to become an EPC General Contractor for power projects in Vietnam and regionally.



Savannakhet wind power plant

Location: Laos

Scope of work:

- Design, supply, construction and installation of met masts
- Operation, data collection and installation report preparation



Phuoc Huu solar power plant

Location: Ninh Thuan

Scope of work: Renovation of switchyard connected to the 110kV Phuoc Thai – Phuoc Huu T/L



Vinh Tan 4 Extension TPP (EPC)

Location: Binh Thuan

Installed capacity: 600 MW

Project classification: Class I

Scope of works: EPC contracting management assistance



Xuan Thien Ea Sup solar power plant

Location: Dak Lak

Installed capacity: 2,800 MWp

Project classification: Class I

Scope of work: Site supervision and project management

R&D CAPABILITY



RESEARCH AND DEVELOPMENT CAPABILITY

With 50 years of experience in the field of power system surveying and engineering consulting, EVNPECC4 stands as a pioneer in research and problem-solving for practical challenges in the power industry such as power system planning, analysis and calculations, research and analysis of power grid operation phenomena (Evaluation of subsynchronous resonance phenomenon for various types of power sources: (i) Thermal power plants (SSR), (ii) Wind power plants (SSCI);...), power quality assessment ... EVNPECC4 is committed to continuous innovation and is actively researching and developing new products & solutions to address the evolving challenges of the power system (HVDC/Back-to-back DC power transmission; Smart Grid;...) and deploying digital transformation solutions for power plants (building remote control centers; automatic monitoring solutions; BIM design;...). EVNPECC4 is dedicated to providing comprehensive and cutting-edge solutions to meet the current and future needs of clients in the power industry.



INTERNATIONAL COOPERATION



INTERNATIONAL COOPERATION

EVNPECC4 has established cooperative relationships with many international organizations to exchange experience and collaborate on consulting work in all fields. In particular, in recent times, EVNPECC4 has cooperated in consulting on a number of hydropower, renewable energy and power grid projects with foreign organizations such as: AFRY from Sweden, Fitchner from Germany, J-Power, Nipon Koei, TEPCO, TEPSCO from Japan, Mott Macdonald from UK, Damwatch Engineering Ltd from New Zealand, Powerchina Huadong Engineering Corporation Limited from China, etc. The good cooperation with international organizations has contributed to enhancing the consulting values that EVNPECC4 brings to all customers.

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EVNPECC4

Trust Building

Power Engineering Consulting JSC 4
11 Hoang Hoa Tham street, Nha Trang ward,
Khanh Hoa province, Vietnam
(84-258) 3563 999
(84-258) 3563 888
www.pecc4.vn
tv4@pecc4.vn

Northern Affiliate
Block No. 3, TT4, alley 183, Hoang Van Thai
street, Phuong Liet ward, Hanoi

Survey Centre
137 Thong Nhat street, Nha Trang ward
Khanh Hoa province

Power Source Engineering Centre
38 Le Thanh Phuong street, West Nha Trang ward
Khanh Hoa province

Civil Engineering Testing Laboratory
Group 4, Vo Dong village, West Nha Trang ward
Khanh Hoa province