



# Introduction to SNPDRI Philippines Corporation

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# Company Profile

## I. Profile of SNPDRI

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*PART 01*

# I. Profile of Smart Energy (SNPDRI) - Company Overview



SPIC wholly-owned subsidiary  
SPIC Integrated Smart Energy Science & Technology Co., Ltd.  
State Nuclear Electric Power Planning Design & Research Institute Co., Ltd.

- **Mission**  
Dedicate smart energy to the society  
Create core value for customers  
Bring a better life to employees
- **Vision**  
Vigorously develop smart energy and build a world-class innovative technology company
- **Core Value**  
Sincerity, creation and excellence

## Integrated operation

SPIC Integrated Smart Energy Science & Technology Co., Ltd.  
State Nuclear Electric Power Planning, Design & Research Institute Co., Ltd.  
SPIC Innovation Center for Integrated Smart Energy Industry

## The most comprehensive and highest level qualification

The highest-level design qualification in China "**Grade A for Comprehensive Qualification of Engineering Design**"  
The highest-level survey qualification in China "**Grade A for Comprehensive Qualification of Engineering Survey**"  
The highest-level consulting qualification in China "**Grade A for Qualification of Engineering Consulting**"  
One of the four major institutions for **power grid engineering consulting and evaluation** of the National Development and Reform Commission of China  
First China Power Industry **Quality Gold Award**  
The 17th **China Quality Award**

# I. Profile of Smart Energy (SNPDRI) - Enterprise Strategy



## Vision

Vigorously develop smart energy  
Build international first-class innovative technology company

## Two “-type” and Two “-ization”

Innovative-type Technical-type Internationalization Differentiation

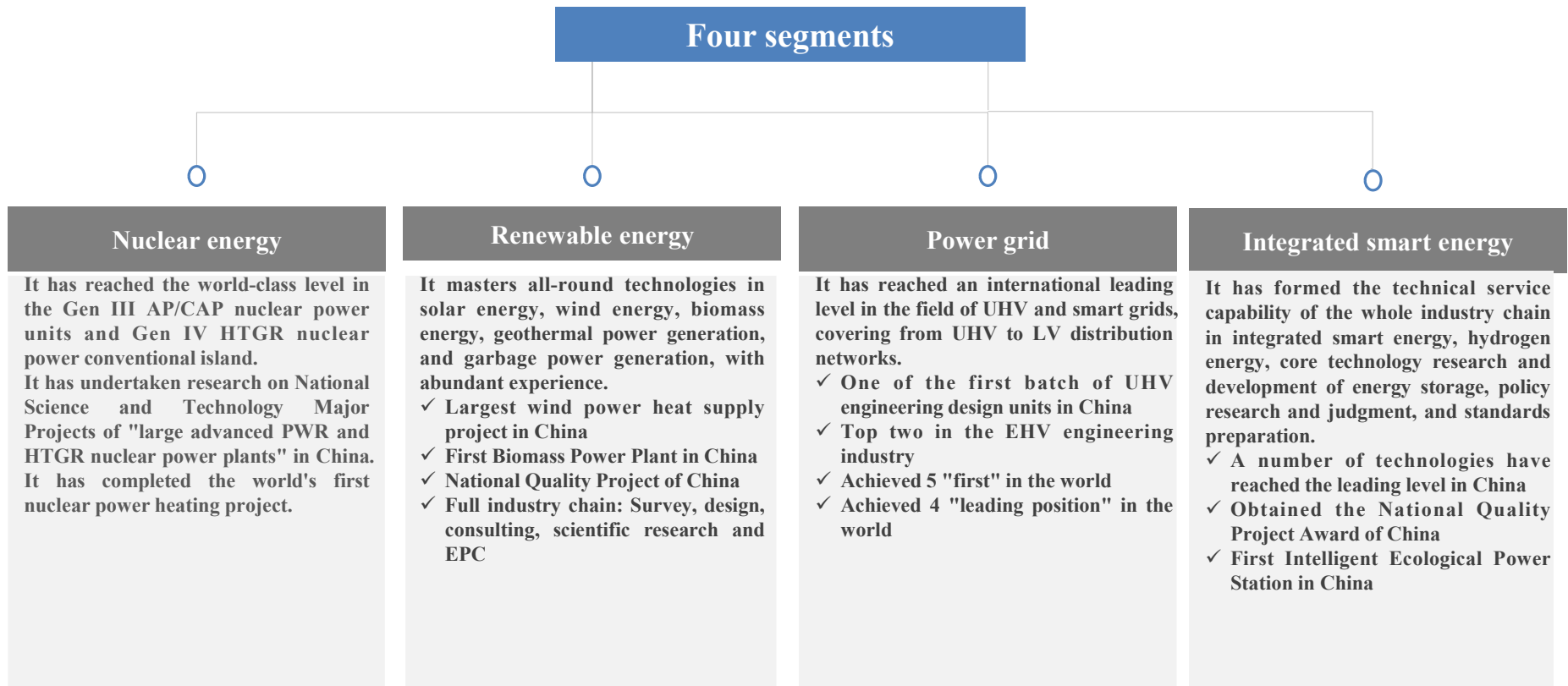
## Four Businesses

Energy think tank R&D innovation  
Engineering services Investment & operation

## Market layout

The Company has laid out both domestic and international markets, covering 31 provinces in China. In overseas, the Company has formed the market layout of cultivating the market in **Southeast Asia, South Asia, West Asia, East Europe and Southeast Africa**, developing the market in **West Africa and Central Asia**, extending the market in **Latin America**, and striving for the market in **West Europe and North America**; The projects are distributed in **33 countries** such as the Philippines, Malaysia, Indonesia, Pakistan, Turkey and Ethiopia.

# I. Profile of Smart Energy (SNPDRI) - Business Layout



# Company Profile

## I. Profile of SNPDR I

## II. Profile of SNPDR I Philippines Corporation

*PART 01*

## II. Profile of SNPDR I Philippines Corporation(SPC) - Company Overview



**SNPDRI Philippines Corporation (SPC)** is located in Unit 622 BSA Twin Towers Building, Bank Drive Cor. Julia Vargas Avenue, Ortigas Center, Mandaluyong City, 1555 which is a wholly owned subsidiary of SNPDRI. Its business scope includes design, consulting and general contracting of transmission lines, substations and renewable energy. Since its establishment in Manila, Philippines in 2013.

## II. Profile of SNPDR I Philippines Corporation(SPC) - Company Overview



**2013**——Established the Philippine Representative Office

**2017**——Registration of the Philippine subsidiary

**2022**——The International Department and the SPC combination

### STRATEGIC POSITIONING

- Globalization Platform
- International Market Development Platform
- Execution platform for international projects



## II. Profile of SNPDR Philippines Corporation(SPC) - Company Overview



### Stages of International Business Development

**Project management**

**Country management**

**Localized management**

- 2015, Set up a subsidiary

- 2019, Award ABUYOG SS project
- Award TAGUIG-Baras TL Project

- 2024, NING-NING MUZON solar rooftop power project
- FDC - 20.78MW solar power project



- 2013, Set up Representative office
- Design consultation

- 2015, Award NAVOTAS SS project
- Award PAGBILAO SS project

- 2022, PAGBILAO energized
- Award West Bone TL SP565
- Award 554 Design project

# II. Profile of SNPDR I Philippines Corporation(SPC) - Organization Chart



## II. Profile of SNPDR I Philippines Corporation (SPC) ) - References Overview



**SNPDRI Philippines Corporation(SPC)** has contracted five general contracting projects with a total contract value of over 15 billion pesos. Among them, Navotas 230kV transformation project and Pagbilao 500kV transformation project have entered the project acceptance stage.

Abuyog 230kV power transformation project and Taguig-Baras 500kV TL project West Luzon Backbone 500kV TL II, 554 design project, Ning\*ning Muzon Solar Rooftop Power Project and FDC design project.

## II. Profile of SNPDR I Philippines Corporation (SPC) - Business Layout



With the strong support of the parent company SNPDR I and the SPIC Group, **SNPDR I Philippines Corporation (SPC)** aims to expand its business into new areas, including wind power, photovoltaic, energy storage and smart energy, as well as into the Southeast Asian market.

## References

- I. Navotas 230kV transformation project**
- II. Pagbilao 500kV transformation project**
- III. Abuyog 230kV power transformation project**
- IV. Taguig-Baras 500kV TL project**
- V. Western Luzon Backbone 500kV TL Project**
- VI. 554 design project**
- VII. Ning\*ning Muzon Solar Rooftop Power Project**
- VIII. FDC - 20.78MWdc Ground Mounted Solar Project**

***PART 02***

# I. Navotas 230kV transformation project



**Navotas 230kV transformation project** is located in NAVOTAS fishing port, northwest of Manila. It was originally a 115kV step-up station of a gas power station. The project needs to demolish the original step-up station and build a 230 substation on the same site, including Two sets of new 230/115/13.8kV transformer, with capacity of 300MVA each、 4-circuit of 230kV、 10-circuit of 115kV .

## II. Pagbilao 500kV transformation project



**PAGBILAO 500kV Substation EPC project** is located in PAGBILAO City, about 120 kilometers southeast of Manila, covers an area of about 25 hectares, installs 3 groups of  $3 \times 334$ MVA main transformer, new 3 500kV intervals, expansion of 2 500kV intervals, new 4 230 kV intervals. The project started on March 15, 2019.

### III. Abuyog 230kV power transformation project



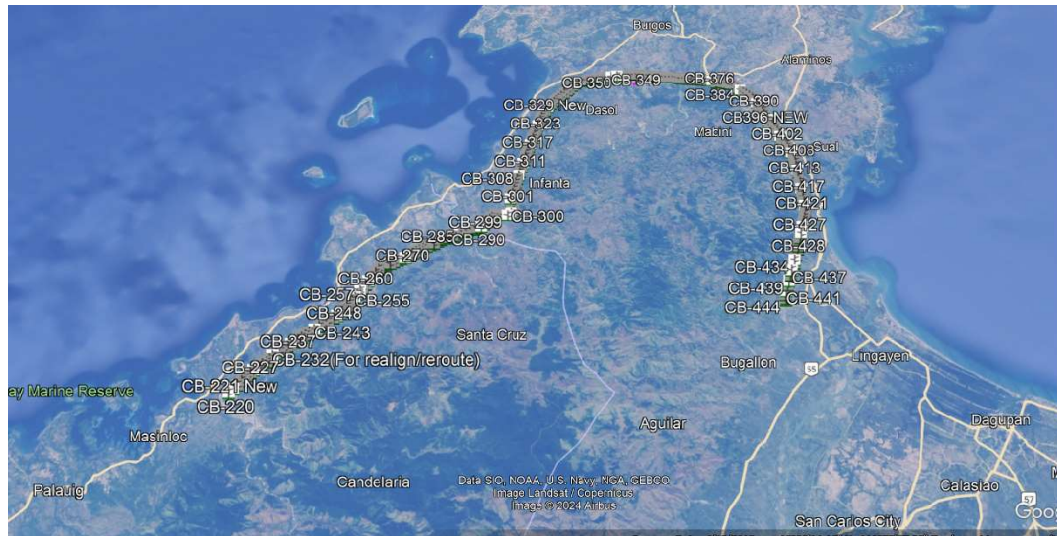
**Abuyog 230kV power transformation project** is located in South Luzon, Philippines. The project scale includes 2 sets of 100MVA 230/69/13.8kV main transformer, 230kV distribution device (12 circuit breakers), 230kV outlet line, 69kV distribution device (8 circuit breakers), and 69kV outlet line.

## IV. Taguig-Baras 500kV TL project



**The TAGUIG-BARAS 500kV Transmission Line project (Package B)** is located in the southern suburbs of Metro Manila, on the northern shore of Laguna Lake. The length of project is 14km, the same tower is set up in double circles, the wire is 4×795MCM ACSR/AS with double ground wire, all of which are OPGW(36 cores). It needs to build 47 tower bases, including 17 linear tower, 30 tensile tower. The iron tower adopts steel pipe Angle steel composite tower.

## V. Western Luzon Backbone 500kV TL Project



The **Western Luzon 500kV Backbone Project (Stage 2) – Schedule II (Tower No. CB-221 to Bolo S/S)** is located in Provinces of Zambales and Pangasinan in Luzon. The work includes design, supply, installation, erection, and civil works, as well as stringing, testing and commissioning of the Transmission Line. The project will consist of 228 lattice steel towers, approximately 87.0 kilometers long that will be installed starting in Candelaria, Zambales and ending in Labrador, Pangasinan.

## VI. 554 design project

The 554 design project includes 5 sub-projects:

**1.LAOAG substation** is a conventional AIS substation. The 230kV and 115kV switch fields are connected by half circuit breaker, and the 69kV switch field is arranged in radial direction (single bus connection).

**2.BAUANG substation** is a conventional AIS substation with 230kV switch field and one-half circuit breaker connection, 115kV and 69kV switch field are radial arrangement (single bus connection).

**3. SAN ESTEBAN substation** is a conventional AIS substation with 115kV and 69kV switching fields in radial arrangement (single bus connection).

**4. BACNOTAN Substation** shall be fitted with new walls as shown and described in the civil scope of the works and in the site development plan.

**5. CURRIMAO substation** is a conventional AIS substation with 115kV and 69kV switching fields in radial configuration (single bus connection).



## VII. Ning\*ning Muzon Solar Rooftop Power Project



**NING-NING MUZON-15.96MWdc Roof Solar Project** located at Labac, Naic Cavite. The rooftop solar project is composed of two housing units preferably PAGSIKAT and PASINAYA.

**PASINAYA** has 7,938 635Wp monocrystalline silicon half-cell single-sided photovoltaic modules, 38 sets of 100kW string inverters and **2 sets of 34.5kV-2000kVA box-type substations** were installed in the PAGSIKAT, with an installed capacity of **3,800kW**. Every 18 to 20 string inverters are connected to a 34.5kV-2000kVA box-type substation, which increases the voltage to 34.5kV, collects it through the collector line, and then connects it to the **34.5kV Transmission Lines** for grid connection.

**PAGSIKAT** has 18,504 590Wp monocrystalline silicon half-cell single-sided photovoltaic modules, 81 sets of 100kW string inverters, **3 sets of 34.5kV-2000kVA box-type substations and 2 sets of 34.5kV-1600kVA box-type substations**. The installed capacity of the project is **8,100kW**. Every 17 to 20 string inverters are connected to a 34.5kV-2000kVA box-type substation, and every 13 to 16 string inverters are connected to a 34.5kV-1600kVA box-type substation, which increases the voltage to 34.5kV, collects it through the collector line, and then connects it to the **34.5kV Transmission Lines** for grid connection

## VIII. Misamis 20.78MW Solar Power Project



**FDC - 20.78MWdc Ground Mounted Solar Project** with an area of 189,341 m<sup>2</sup> (18.9341 ha) located at Villanueva, Misamis Oriental. The project scope of works includes **PV Solar Farm** (34,356 sets 605W, N-Top CON, Bifacial, Dual-glass, salt-spray resistant, 5 assy (Central Inverter & MV Transformer Integrated IP65 Inverter Capacity: 3300kVA,13.8kV,60Hz MV Transformer Capacity:3300kVA,0.63/13.8kV, Substation (1 unit - 25 MVA Power Transformer 13.8/69kV, 1 set - PCB (DT), 2 sets - DS, 1 set- DS/ES, 3 pcs - PT, 3 pcs - CIT, 1 assy - MCSG(Main 1-1500A, 40kA, 3 Branches - 250A, 25kA))and the **69kV Transmission Lines** (4km away from the tapping point).



**Thank you!**

