

# **ACEN** at a Glance

- Established in 2011 from a standing start by the Ayala group
- ACEN was included in the PSE Index in 2021
- Ownership structure<sup>1</sup>: Ayala<sup>2</sup> 58.23%, GIC<sup>3</sup> 16.86%, Float<sup>4</sup> 24.41%

- Market cap as of 28 February 2025: ~ ₱126.2 Bn (US\$2.2 Bn)<sup>5</sup>
- Net income in 2023 of ₱7.4 Bn; 2024 net income of ₱9.4 Bn

~7.0 GW attributable capacity<sup>6</sup> across five markets, ~80% contracted<sup>7</sup>

- Philippines 2.4 GW
- Australia 1.2 GW
- Vietnam-Lao PDR 1.2 GW
- India 1.7 GW
- Indonesia & Others 0.4 GW

## **Technology Mix**



Solar<sup>8</sup> 4.6 GW



Wind 2.0 GW



Storage and Other RE 0.4 GW



Thermal < 0.1 GW

## **Operating Status**

Operating 47%

Under Construction 35%

Committed 18%

## **Key Strategies**

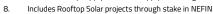
- Geographic diversification

  Balance between the Philippines and priority international markets
- **2** Greenfield development focus Identify high potential sites and development into renewable energy assets
- 3 Strategic transmission access
  Secure early access to limited transmission infra, enabling reliable delivery of RE generation
- 4 Renewable and energy storage integration at scale

Focus on assets that combine renewables and storage to deliver mid-merit power

Optimal contracting Contract majority of generation while retaining room for market opportunities

Contracts include feed-in-tariffs (FIT), bilateral contracts, and offtake from ACEN's retail electricity supply business; supply includes generation from third parties





As of Public Ownership Report 31 December 2024.

Through AC Energy and Infrastructure Corporation (ACEIC), a wholly-owned subsidiary of Avala.

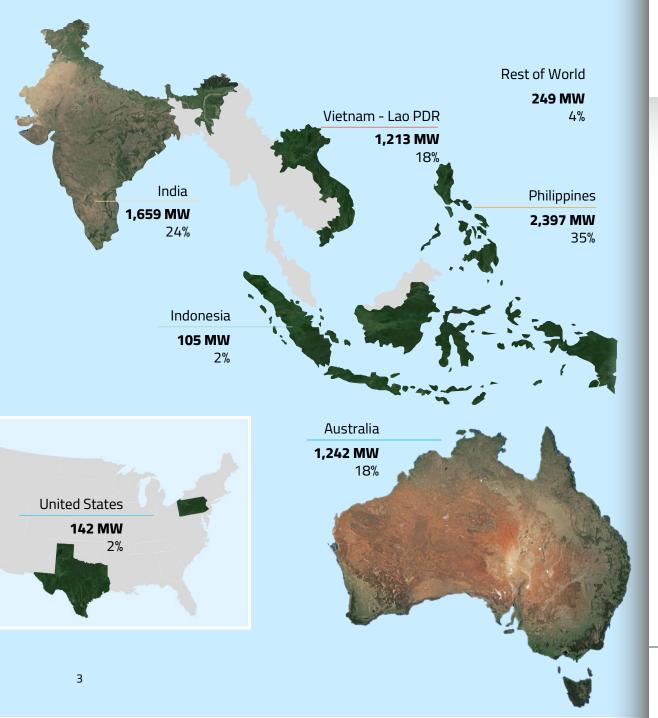
Through Arran Infrastructure, a wholly-owned subsidiary of GIC Private Ltd.

Includes directors, officers, and the public.

Market capitalization from Philippine Stock Exchange data. Exchange rate used: \$58.090 - US\$1

<sup>6.</sup> Refers to gross capacity of owned assets, multiplied by ACEN's effective economic

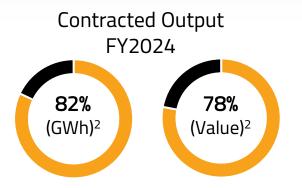
ownership. Includes board-approved projects and does not include leased units.



# Generation Portfolio 20 March 2025

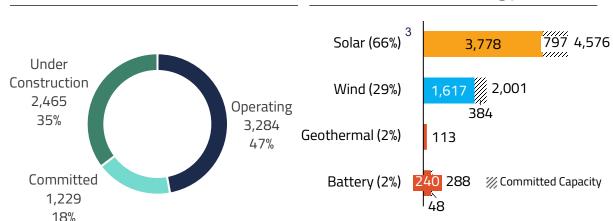
Total Attributable Renewables Capacity<sup>1</sup>

6,978 MW



### **Project Status**

## RE Technology



Attributable capacity is computed as gross capacity of owned, under construction, and committed assets multiplied by ACEN's effective economic ownership. Does not include leased units and 68 MW of diesel plants fully owned by ACEN.

3. Rooftop solar from the NEFIN joint venture is reflected in Solar capacity.



Weighted based on GWh and revenues for operating plants.



# RE share of portfolio has grown rapidly with aggressive capacity expansion

Capacity Evolution and Key Milestones in MW, 2019-2024

#### 2019

- **ACEIC** acquisition of PHINMA Energy (PHEN) in June 2019
- Transformation of PHEN to ACEN starts

#### 2020

- Infusion of ACEIC Philippine assets
- Acquisition of several operating assets
- Investments in several greenfield

#### 2021

- Infusion of ACEIC Int'l assets into ACEN
- Inclusion in Philippine Stock Exchange Index
- Net Zero 2050 and 100% renewables generation commitments

#### 2022

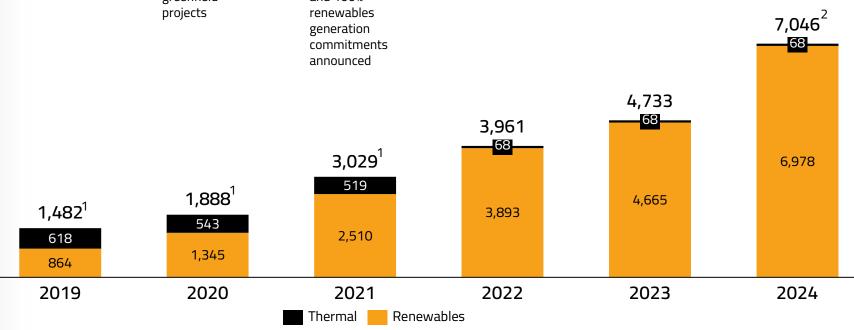
- Completed world's first energy transition mechanism; for SLTEC coal plant
- Full acquisition of Australia platform

#### 2023

- New partnerships in Australia, USA, India, and other markets
- Net Zero roadmap completed

#### 2024

- Achieved 5 GW aspiration a year ahead of schedule
  - Acceleration of growth in India
- NTP of Ouezon North Wind Project



- Pro Forma for 2019-2021; includes infusion of ACEIC Philippine and International assets
- Owned assets only, excludes leased units



# ACEN key strategy pillars

# Geographic Diversification

- ✓ Balancing our footprint between the Philippines and priority International markets
- ✓ Selectively entering markets with stable regulatory frameworks and relatively transparent processes

# Greenfield Development Focus

- Pursuing projects in markets and highpotential sites that are scalable, with potential for further renewables and storage expansion
- ✓ Continue to nurture partnerships to expand market access, capabilities

# Strategic Transmission Access

- ✓ Securing early access to limited transmission infrastructure to enable delivery of at-scale, new RE projects
- Position to accelerate bilateral discussions to secure high-quality projects

# Renewables & Storage Integration At Scale

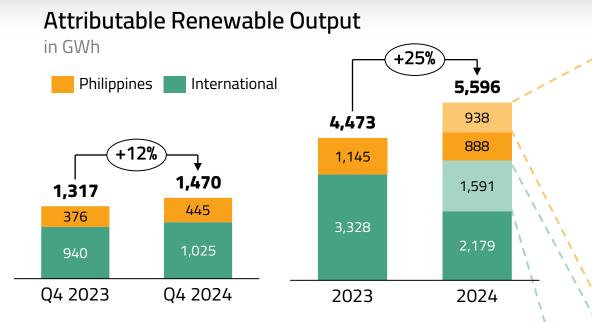
- ✓ Focus on assets that combine renewables and storage to deliver mid-merit power
- Pursuing developments in integrating generation and energy storage

# Optimal Contracting

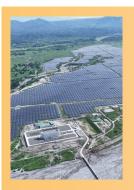
- ✓ Contract majority of generation across multiple market segments
- Grow contracted capacity with retail customers in the Philippines
- ✓ Retain some room to capitalize on market opportunities



# In FY 2024, new plants were 45% of RE output, 37% of Core Attr. EBITDA



## New capacities and output added in 2024



**SanMar Solar** 1 & 2 **507 GWh** 



Pagudpud Wind (155 of 160 MW) 248 GWh



Cagayan North Solar 109 GWh

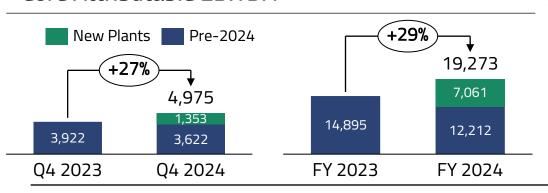


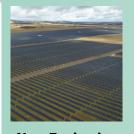
Arayat-Mexico 2
Solar
30 GWh



**Capa** Wind **45 GWh** 

### Core Attributable EBITDA





New England Solar (Australia) 784 GWh



Masaya Solar (India) 439 GWh



Super Solar Ph 1 (Vietnam) 197 GWh



Lac Hoa & Hoa Dong (Vietnam) 94 GWh



Chestnut Flats (USA) 77 GWh



# Financial & Operating Highlights





# Attributable Renewables Output FY 2024 +25% YoY

YTD RE generation output reached 5,596 GWh; Q4 wind output tempered by offline turbines in PH



1,826 GWh

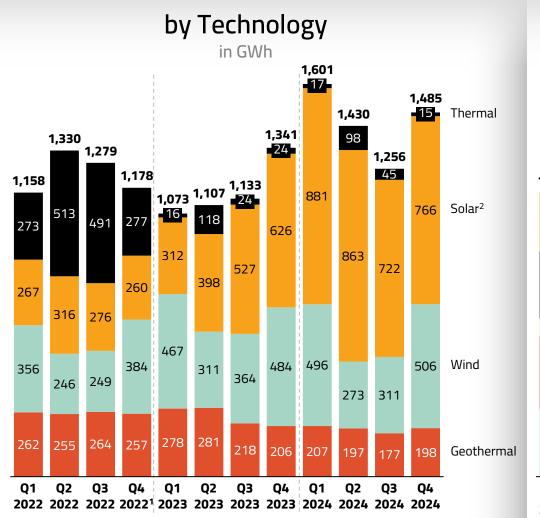
**+60%** YoY

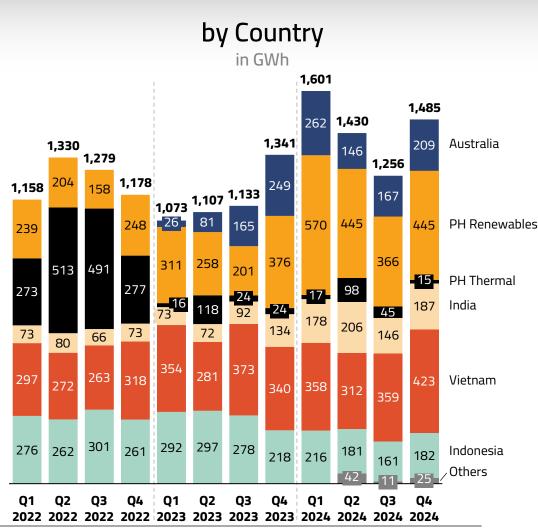
Commissioning for SanMar Solar, Pagudpud Wind, Cagayan North Solar, and Arayat-Mexico Solar 2

# international 3,770 GWh

+13% YoY

Ramp-up of New England Solar (Australia) and Masaya Solar (India) and new capacity from Solar NT (SUPER Vietnam), tempered by Sidrap selldown





- 1. Reflects SLTEC divestment in November 2022
- 2. Includes battery storage on the Alaminos Solar site



# Core Attributable EBITDA FY 2024 +25% YoY

Strong operating performance with continued capacity ramp-up

	in million PHP	FY 2023	FY 2024	Change
Α	Revenue	36,499	37,300	+2%
В	Cost and expenses	(39,201)	(34,341)	-12%
С	Depreciation and amortization	1,573	2,592	+65%
D	Provision for impairment	2,997	1,135	-62%
Е	Equity in net income of associates and joint ventures	1,765	1,191	-33%
F	Interest income - investment in redeemable preferred shares and convertible loans <sup>1</sup>	3,137	2,916	-7%
G	Value realization	1,062	2,811	+165%
Н	Interest income - accounts and other receivables	2,347	2,429	+3%
	Other income - net	362	-	-
	Statutory EBITDA	10,541	16,033	+52%
Е	Equity in net income of associates and joint ventures	(1,765)	(1,191)	-33%
F	Interest income - investment in redeemable preferred shares and convertible loans <sup>1</sup>	(3,137)	(2,916)	-7%
	Attributable EBITDA from associates and joint ventures	13,167	12,586	-4%
	Attributable EBITDA	18,806	24,512	+30%
G	Value realization	(1,062)	(2,811)	+165%
Н	Interest income - accounts and other receivables	(2,347)	(2,429)	+3%
	Core Attributable EBITDA	15,398	19,272	+25%
	Net income after tax att. to equity holders of the parent company	7,396	9,360	+27%

- A: Revenue From subsidiaries in Philippines and Australia
- B: Cost and Expenses Includes Cost of sale of electricity and general & admin expenses (GAE)
- C: Depreciation Includes power plant depreciation under costs and expenses, and nonplant depreciation under GAE
- D: Provision for impairment Non-cash expense
- E: Equity in net income of associates and joint ventures - Share in net income after tax in noncontrolled investees; ownership based on common interest
- F: Interest Income investment in redeemable preferred shares and convertible loans Coupons on investments in redeemable preferred shares and convertible loans in non-controlled investees
- G: Value realization Cash gain from sale of assets; reflects reduction of stake in Mui Ne in Vietnam, full divestment of Sidrap Wind, and gain from acquisition of AREIT shares
- H: Interest Income accounts and other receivables Earnings from project bridge financing and partner loans



<sup>1.</sup> Interest income on other financial assets at amortized cost are coupons from redeemable preferred share investments of the Group in international renewable power plants.

# Consolidated Income Statement FY 2024

Mapping key items in EBITDA computation

in million PHP	FY 2023	FY 2024	Change	FY 2023 FY 2024	Chang
Revenues				Other Income (Charges)	
Revenue from sale of electricity	36,181	36,134	-	Interest and other financial income	
Rental income	69	70	+2%		200
Dividend income	-	516	-	Cash in banks and short-term deposit 1,587 <b>989</b>	-38
Other revenues	249	580	+133%	Accounts and notes receivable 2,347 <b>2,429</b>	+3%
	. 36,499	37,300	+2%	Investments in redeemable preferred shares and 3,137 <b>2,916</b> convertible loan	-7%
Costs and Expenses					
Cost of sale of electricity				7,071 <b>6,334</b>	-10
Cost of purchased power	(27,273)		-19%		
Depreciation and amortization	(1,207)	(2,023)	+68%	Interest and Other Finance Charges (1,930) (3,292)	+71
Fuel	(1,522)	(1,019)	-33%		
Others	(1,728)	(2,273)	+32%	Other Income - Net	
	(31,730)	(27,359)	-14%	Gain on asset disposal <sup>1</sup> 1,062 <b>2,638</b>	+148
General and administrative expenses				Others 4,123 <b>1,112</b>	-73
Personnel costs, management and professional	(2,607)	(3,133)	+20%	5,185 <b>3,750</b>	-28
fees Provision for impairment	(2,997)	(1,135)	-62%	Income (loss) before income tax 9,389 <b>10,942</b>	+17
Depreciation and amortization	(366)	(1,133) (569)		Provision for (benefit from) income tax 282 <b>830</b>	+194
Others	(1,501)	(2,145)		Net income (loss) 9,107 <b>10,112</b>	+11
	(7,471)	(6,982)		Non-controlling interests (1,711) <b>(752)</b>	
Total Costs and Expenses	(39,201)			Net income after tax att. to equity holders of the parent 7,396 9,360	+27
Equity in net Income of associates and joint ventures	1,765	1,191	-33%	company	



# Consolidated Income Statement FY 2024

Adjustment in trading protocol for 2024 reflected in revenues and costs; no material impact on NIAT

in million PHP	FY 2023	FY 2024	Change			
Revenues						
Revenue from sale of electricity	30,806	36,134	+17%	 From 2024, SLTEC Unit 2 now being used to		
Rental income	69	70	+1%	directly serve ACEN's Meralco contract –	1,587 990	
Dividend income	-	516	-	reducing need to sell its output to WESM	2.347 <b>2.429</b>	+3
Other revenues	249	581	133%	<ul> <li>Normalized for this, revenues would have</li> </ul>	,	
	. 31,124	37,300	+20%	grown 17% year over year	3,137 <b>2,916</b>	
Costs and Expenses						
Cost of sale of electricity					7,070 <b>6,334</b>	-1
Cost of purchased power	(21,897)	(22,044)	+1%	- Cost of sumboard source likewise adjusted		
Depreciation and amortization	(1,207)	(2,023)	+68%	Cost of purchased power likewise adjusted     accordingly	(1,930) <b>(3,292)</b>	+7
Fuel	(1,522)	(1,019)	-33%	accordingly		
Others	(1,728)	(2,273)	+32%	Reduction in cost driven mainly by lower third-		
	(26,354	(27,359)	+4%	party volumes purchased, effectively replaced	1,062 <b>2,638</b>	+14
General and administrative expenses				by lower cost renewable energy	4,123 <b>1,112</b>	-7
Personnel costs, management and professional	(2,607)	(3,133)	+20%		5.185 <b>3.750</b>	
fees				Income (loss) before income tax	9.389 <b>10.942</b>	+1
Provision for impairment	(2,997)	(1,135)	-62%			
Depreciation and amortization	(366)	(569)	+56%	Provision for (benefit from) incon Change in trading pro	·	+19
Others	(1,501)	(2,145)	+43%	Net income (loss) with no impact on AC	.EIN NET INCOME	+1
	(7,471)	(6,983)	-7%	Non-controlling interests	(752)	
Total Costs and Expenses	(33,825)	(34,341)	2%	Net income after tax att. to equity holders of the pare	ent 7,396 9,360	+2
Equity in net Income of associates and joint ventures	1,765	1,191	-33%	company		



# Balance Sheet Highlights FY 2024

Raising and deploying funds for international investments, and capital expenditures for ongoing projects

#### Consolidated Balance Sheet

in million PHP

	31 Dec 2023	31 Dec 2024	Change
Assets	284,934	329,542	+16%
Cash and Cash Equivalents	39,697	25,158	-37%
Long-Term Investments	156,607	203,909	+30%
Others	88,630	100,475	+34%
Liabilities	111,558	172,099	+54%
External Debt <sup>1</sup>	79,278	133,512	+68%
Others	32,279	38,587	+19%
Equity	173,377	157,443	-9%
Equity Attributable to Parent	143,472	147,545	+3%
Non-controlling interest	29,904	9,898	-67%

	31 Dec 2023	31 Dec 2024	
Statutory Net Debt	39,581	108,354	+174%
Gross Debt to Equity	0.46	0.85	
Net Debt to Equity	0.23	0.69	

## Attributable Net Obligations

in million PHP

	31 Dec 2023	31 Dec 2024	Change
Statutory Net Debt	39,581	108,354	+174%
Attributable Net Debt from Associates and Joint Ventures	55,228	53,546	-3%
Attributable Net Debt	94,809	161,810	+71%
ACRI Redeemable Preferred Shares <sup>2</sup>	31,499	11,661	-63%
Attributable Net Obligations	126,308	173,470	+37%

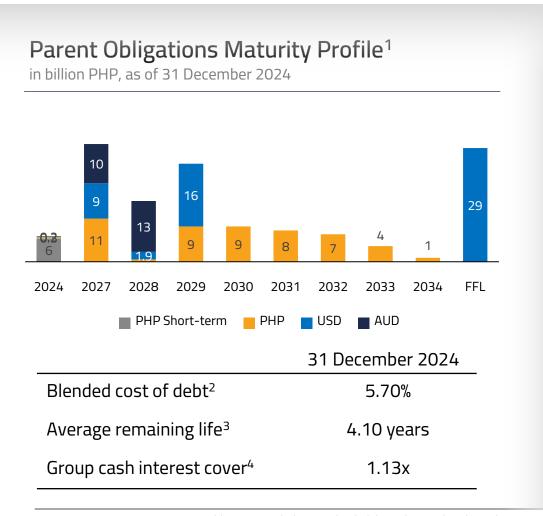


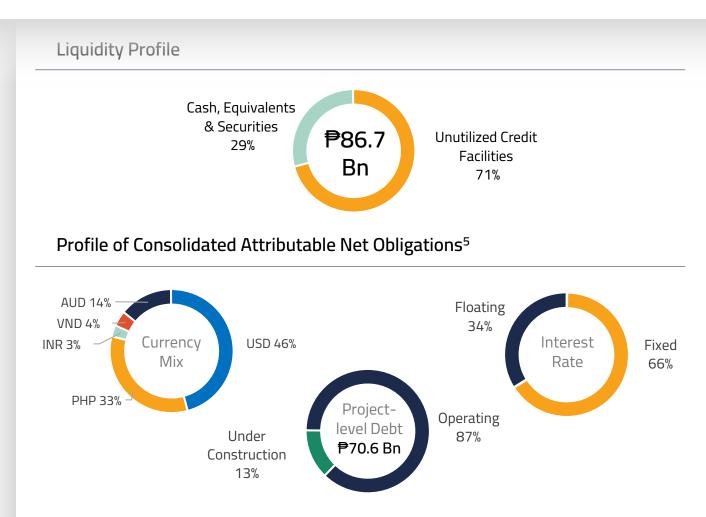
<sup>1.</sup> Includes short-term and long-term loans payable and notes payable.

<sup>2.</sup> AC Renewables International; Represents US\$553 Mn proceeds from ACEIC Green Bonds

# **Debt Profile**

Coverage ratios remain healthy with maturities spread out; liquidity and credit availability remain robust





Parent obligations include ACEN bank debt and Green bonds, and ACEIC Green bonds
 deployed to ACRI.

Parent obligations + attributable project finance debt of all investee companies, less attributable cash.



<sup>2.</sup> Blended cost of debt excludes redeemable preferred shares.

<sup>3.</sup> Excludes perpetual fixed-for-life debt. Parent obligations only.

# Portfolio Overview





# Philippine Assets



**Ilocos Norte** Pagudpud Wind



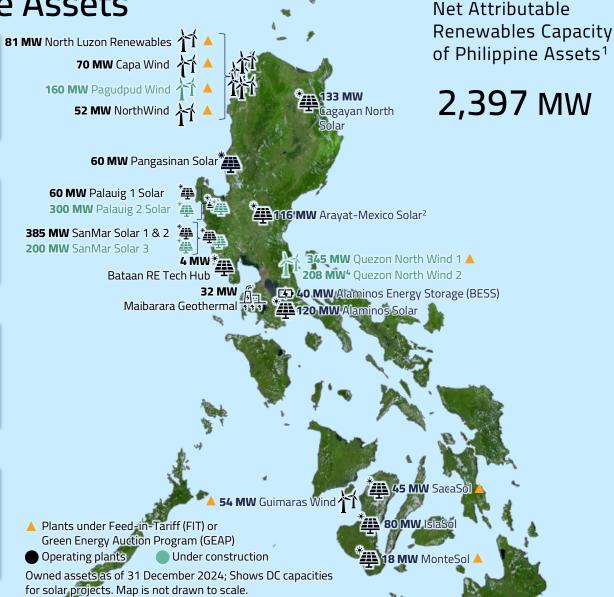
Pampanga Arayat-Mexico Solar



Laguna Alaminos Solar



**Negros Occidental** Sacasol



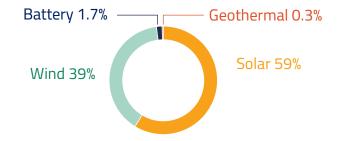
# Breakdown by Net Attributable Capacity



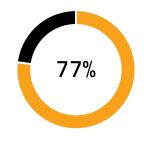
## **Operating Status**



## Technology



### Contracted Output<sup>5</sup>



- Refers to gross capacity of owned assets, multiplied by ACEN's economic ownership; does not include leased units & 68 MW of diesel plants fully owned by ACEN
- 2. Includes 44-MW expansion under commissioning

- Refers to plants under construction that are already transmitting some power to the grid under energization, testing and commissioning and/or awaiting key requirements
- Quezon North Wind 2 capacity subject to final configuration
- 5. Weighted by GWh



# **Philippines**

# Government highly supportive of renewables; transition boosted by coal moratorium, elevated gas prices

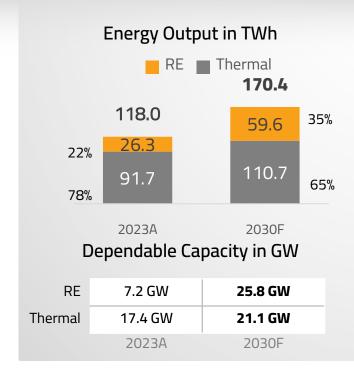


#### **Business Overview**

- Largest new renewables developer in the Philippines<sup>1</sup> with 1,184 MW operating and 1,213 MW under construction
- Expanded operations covering renewables generation and retail electricity supply (RES), with active trading presence
- Post-2022 ETM<sup>2</sup>, taking responsibility for SLTEC offtake – previously for Meralco: will be recontracted
- Investments being made in plant substations, connecting lines, and enabling transmission infrastructure

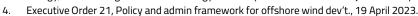
#### **Sector Overview**

- Tight supply situation; gov't encouraging move to RE
- Malampaya depletion forecasted by 2025
- New coal moratorium & delayed LNG build-out worsening supply tightness
- Full foreign ownership in RE sector now allowed
- **Priority dispatch for renewables** on the spot market, attracting historically high prices that are undifferentiated from baseload thermal
- Government targeting 35% RE share of output by 2030 and 50% by 2040
  - ~17 GW new RE required, on top of 2 GW already under construction
- R.A. 11285<sup>3</sup> grants incentives to energy efficiency & conservation projects
- Marcos, Jr. E.O.<sup>4</sup> 21 for offshore wind identified 178 GW of potential sites
- Open, competitive market dynamics
- Ability to do spot sales and enter into bilateral contracts with contestable customers, aside from distribution utilities
- FIT/Green Energy Auction Program (GEAP): ~20-year contract for RE offtake
- Green Energy Option Program (GEOP) allows customers with peak monthly avg. demand of >100kW for the last 12 months to choose purely RE sources



## Transmission challenges

 Grid connectivity remains a challenge, as transmission rollout not able to keep pace with fast-paced renewables expansion needed to achieve government targets



An Act Institutionalizing Energy Efficiency and Conservation, Enhancing the Efficient Use of



<sup>1.</sup> Excludes legacy hydropower and geothermal assets acquired by generation companies from 3. NAPOCOR asset sales during EPIRA initial implementation

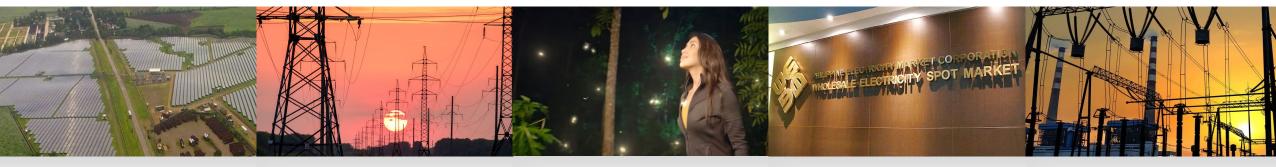
Energy, and Granting Incentives to Energy Efficiency and Conservation Projects. 23 July 2018.

<sup>2.</sup> Pioneering Energy Transition Mechanism for SLTEC coal-fired power plant

# Philippine Market Segments



Several options for delivering renewables output, providing flexibility to operations



# Feed-in-Tariff (FIT) & Green Energy Auction Program (GEAP)

- Government mechanism that guarantees a fixed price to RE investors for 20 years to develop RE projects
- Power is sold "as generated" (i.e., no guaranteed output or firming requirement)
- Balance of revenues from the WESM vs. FIT/GEAP rates are collected from end-users through FIT Allowance

# Regulated PPAs with Distribution Utilities

- Power Purchase Agreements (PPAs) with Distribution Utilities based on Power Supply Procurement Plans approved by the Department of Energy (DOE) and subject to rate approval by the Energy Regulatory Commission (ERC).
- These PPAs are awarded through a competitive selection process

# Retail Electricity Supply (RES)

- PPAs with retail electricity suppliers Retail Competition and Open Access (RCOA) or Green Energy Option Program (GEOP)
- RCOA customer eligibility started at ≥ 1MW in 2013, is now at 500kw, and is designed to drop to the household level
- GEOP customer eligibility is at 100kw but must be 100% RE supplied

# Wholesale Electricity Spot Market (WESM) Trading

- All generators must participate by offering all their capacity into the wholesale market on fiveminute intervals (subject to settlement of bilateral contract quantities outside the market)
- The WESM allows participants to take merchant buying or selling positions and thus manage generation and supply mismatch

## **Grid/Ancillary Services**

- Ancillary Services can be contracted by the National Grid Corporation of the Philippines (NGCP) through bilateral contracts awarded through a competitive selection process
- The recently opened reserve market now allows for certified generators to trade reserve capacities similar to the trading of energy



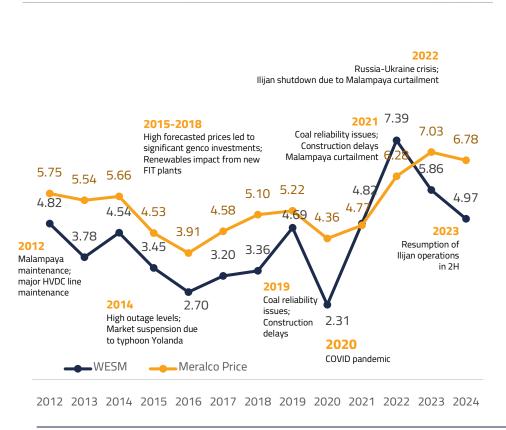
# Historical and Latest Philippine Spot Market Prices

WESM rates have trended upward long-term with typical seasonality



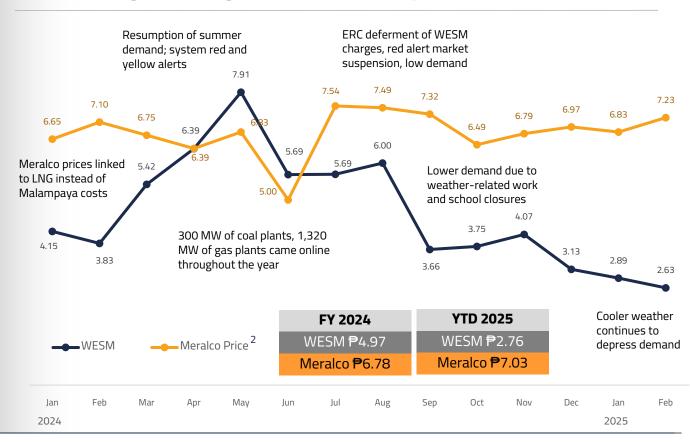
## Annual Spot Prices, 2012-23

Generator Weighted Average Price (GWAP) in PHP per kWh



# Monthly Spot Prices, 2024-25

Generator Weighted Average Price (GWAP) in PHP per kWh



Source: IEMOP, ACEN company analysis, Meralco website

<sup>1.</sup> GNPD Unit2, Sual Unit2, QPPL G01, SBPL, Pagbilao Units 1 and 3, Masinloc Unit 3 and Sta Rita Units 2 and 3 and Ilijan plants (Source: <a href="https://businessmirror.com.ph/2023/10/30/iemop-power-spot-market-prices-in-luzon-up-in-oct/">https://businessmirror.com.ph/2023/10/30/iemop-power-spot-market-prices-in-luzon-up-in-oct/</a>)

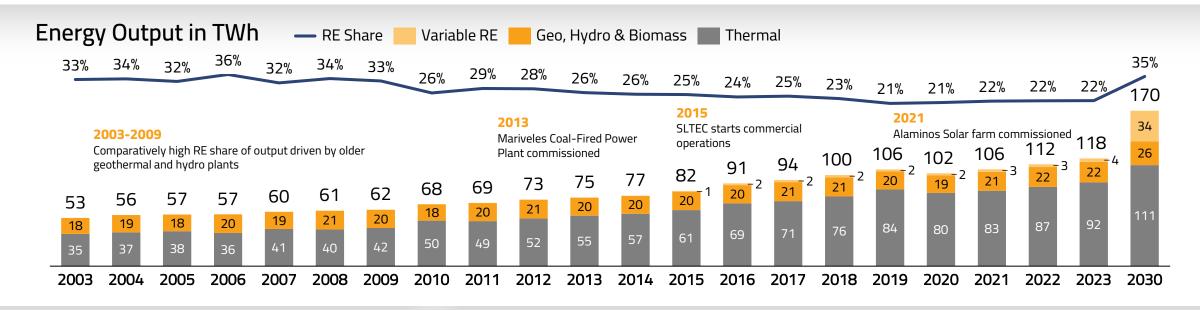


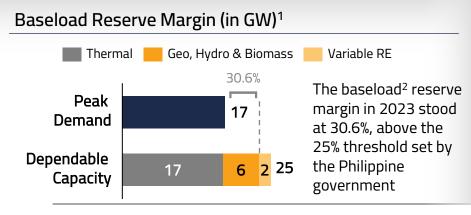


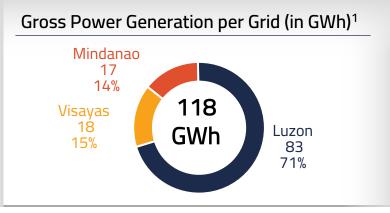
# Philippine Power Generation Landscape

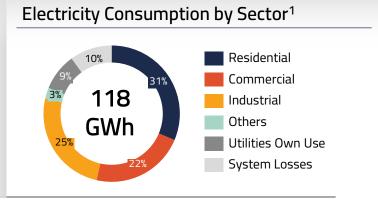


Majority of output still from thermal plants; coal plants generated 63% of power in 2023











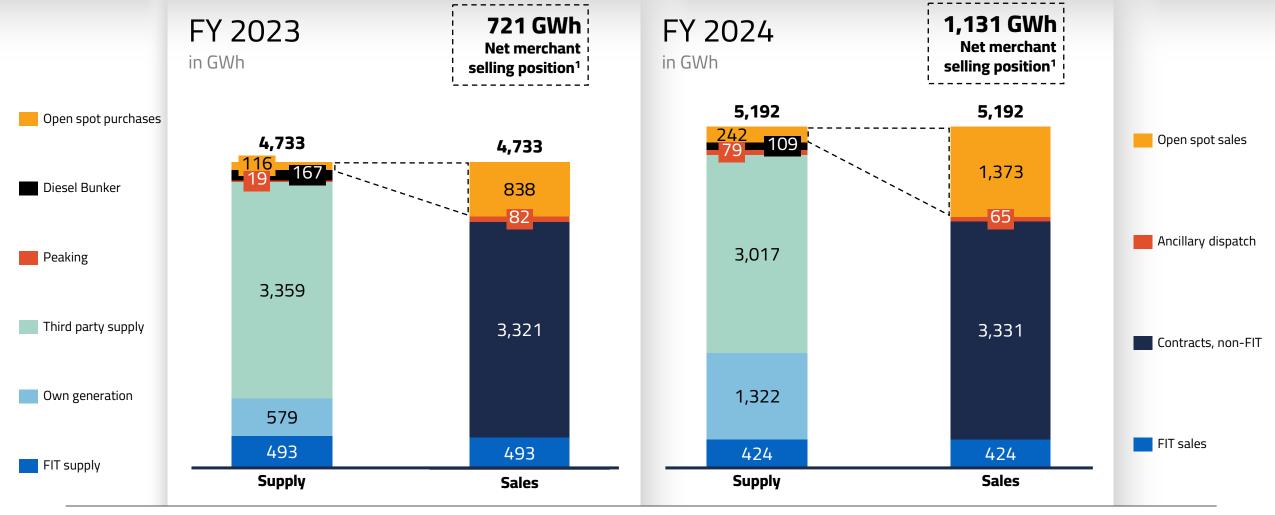
<sup>1. 2023</sup> statistics from Philippine Department of Energy

<sup>2.</sup> Considers coal, oil-based, natural gas, geothermal, and hydro plants only

# **Spot Market Position - Philippines**







- 1. Net merchant selling (buying) position is the difference between gross open spot sales and purchases
- 2. SLTEC output included in Third Party Supply in 2023 and 2024, but included in Own Generation in 2022 (divested in Nov 2022)
- 3. Own Generation represents ACEN's attributable share of total plant output





# Retail electricity supply update

\*\*\*

ACEN RES now has 49% share of RE supplier market under GEOP<sup>3</sup>





# ACEN RES continues to sign renewable energy supply agreements with key clients:

- Cebu Pacific Air's APlus and AirJuan buildings in Pasay City are now fully powered by RE
- Ajinomoto Philippines powers a greener future by transitioning its main facilities to ACEN RES
- ACEN powers Chinabank's Makati, Binondo offices
- iLand Bay Plaza switches to 100% RE
- Philippine Cultural College (PCC) switches its five facilities to RE via the Retail Aggregation Program

# **Customer Profile**

Percent share of MW contracted capacity, 31 December 2024



The Green Energy Option Program is a voluntary mechanism under the Renewable Energy Act of 2008 that allows electricity end-users to choose Renewable Energy as their source of energy

2. Retail Competition and Open Access allows contestable customers to 3.

select their supplier of electricity with depending on the average demand set by the Energy Regulatory Commission (ERC); establishment of RCOA is mandated by EPIRA

According to ERC Competitive Retail Electricity Market (CREM) Report

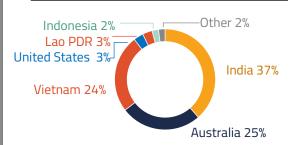
Visit <u>acenres.com</u>



#### International Assets India 140MW Sitara Solar 70MW Paryapt Solar Net Attributable Capacity<sup>1</sup> **420MW** Masaya Solar of International Assets 153MW Maharashtra Wind-Solar 1,033MW Committed Projects Ninh Thuan Solar 4,581 MW Vietnam-Lao PDR Net Attributable Capacity 252MW Quang Binh Wind 405MW Ninh Thuan Solar 88MW Ninh Thuan Wind Solar 80MW Khanh Hoa & Dak Lak Solar 84MW Mui Ne Wind 60MW Lac Hoa & Hoa Dong Wind 287MW Super Phase 1 Solar **600MW** Monsoon Wind **196MW** Committed Projects Paryapt Solar Indonesia **United States** 663MW Salak & Darajat Geothermal **15MW** Salak Binary Plant 38MW Chestnut Flats Wind Australia **40MW** Salak U7 Expansion 129MW Stockyard Wind **522MW** New England Solar **200MW** New England BESS PENNSYLVANIA 520MW Stubbo Solar Rest of World Operating plants 139MW NEFIN Rooftop Solar Under construction **148MW** Partner Platforms Owned assets as of 31 December 2024: Stubbo Solar Shows DC capacities for solar projects. Chestnut Flats Wind Refers to gross capacity of owned assets, multiplied by ACEN's effective economic ownership. 3. Includes rooftop solar.

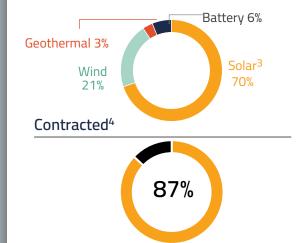
### **Breakdown by Net Attributable** Capacity (International)





#### **Operating Status**





Refers to percentage of output.



Succeeding phases of the Solar NT acquisition subject to completion of conditions precedent. 4.

# Australia

# Significant potential due to coal phase-out and aggressive emissions reduction targets



# 1,242 MW

## Attributable capacity

- Largest market outside Philippines; ~40% of power supplied from wind and solar generation
- Strong solar and wind resources, with DC capacity factors in the 20s for solar and mid-30s for wind in NSW and mid-40s in Tasmania
- New England and Stubbo solar farms are two of Australia's largest; both in New South Wales
  - New England Solar fully operational
  - Stubbo Solar in commissioning
  - 200 MW NE BESS under construction
- Won a Capacity Investment Scheme Agreement (CISA) for 900 MW Valley of the Winds project; Phoenix Pumped Hydro awarded with a Long Term Energy Service Agreement
- Currently 58% contracted; incoming customers to take contracted capacity to ~65%
- ACEN Australia is 100% owned by ACEN Corp

- Coal phaseout underway
  - Planned closure of coal plants producing ~31 TWh annually shows a large gap for RE to fill
  - NSW alone needs ~10 GW of intermittent RE to fulfill its supply gap
- 2022 Climate Change Act sets 43% reduction in GHG by 2030 and a 2050 net zero emissions target<sup>2</sup>
  - **AEMO<sup>4</sup>** Step Change Scenario<sup>5</sup> in the Integrated System Plan
  - Coal generation capacity to be **retired: 46%** by 2030 (faster than previously announced); **100%** by 2038
  - Targeting to triple grid-scale RE to 57 GW by 2030; and increase to 126 GW by 2050 from 19 GW today

<b>AEMO<sup>4</sup></b> Step Change Scenario <sup>5</sup>	Current	Projected 2030	Projected 2050	Change Current-2050
Energy Storage (including battery & hydro)	3 GW	19 GW	57 GW	19x
Solar & Wind Utility-scale	21 GW	57 GW	126 GW	7x
Rooftop Solar PV	21 GW	36 GW	86 GW	4x
Grid usage	174 TWh	202 TWh	313 TWh	~2x

<sup>1.</sup> Long Term Energy Service Agreements (LTESAs), Tender Round One Outcomes (aemoservices.com.au)

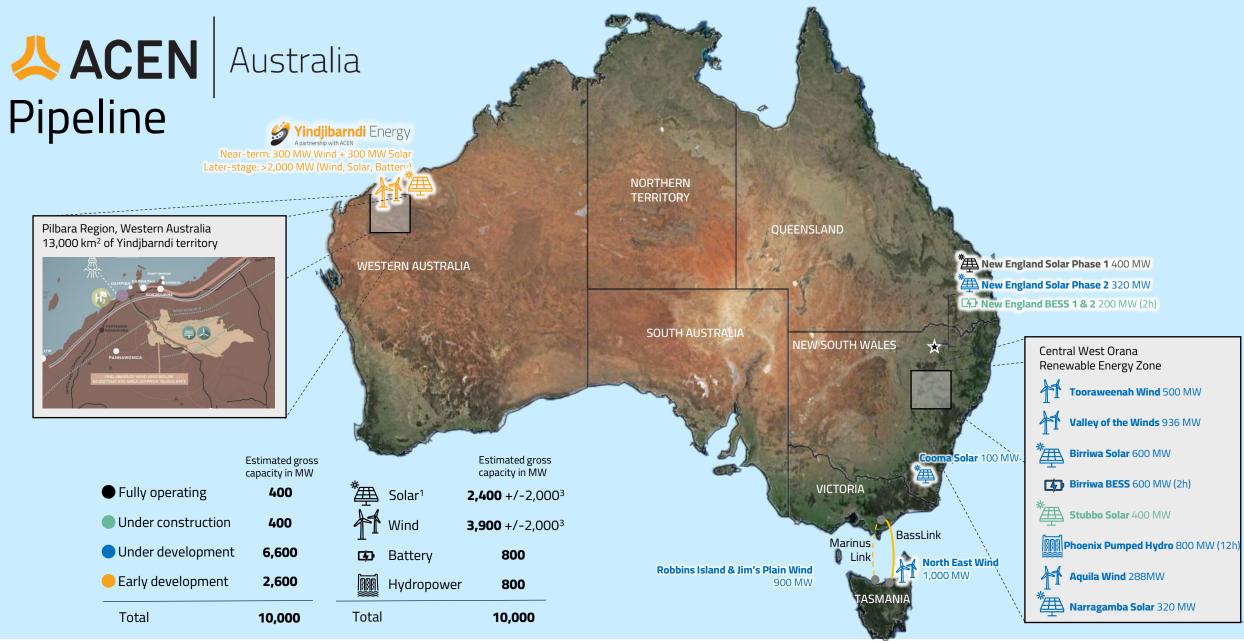
Generation development scenario which fulfils Australia's emission reduction commitments in a growing economy, detailed in the <u>2024 AEMO Integrated System Plan</u> and <u>Overview</u>.



Parliament of Australia <u>website</u>. Climate Change Bill 2022 [and] Climate Change (Consequential Amendments) Bill 5.
 2022

<sup>3.</sup> In lieu of tariffs due to merchant offtake

Australian Electricity Market Operator



- I. All solar capacities in AC, net dependable (gross) capacity. DC capacity is roughly 1.3x of the figure in AC. Map is not drawn to scale.
- 2. Representative pipeline projects in Australia in various stages of development. Projects under development are subject to relevant Board and regulatory approvals.
- 3. Refers to potential later-stage projects through Yindjibarndi Energy.



# First project already generating and 2<sup>nd</sup> now in commissioning; also building battery storage co-located with solar farm









New England Solar is a 720 MW project located near Uralla in NSW. It is ACEN Australia's first project and one of Australia's largest solar projects participating in the National Electricity Market.



~780,000 tonnes CO2e annual carbon avoidance



Average Australian Homes powered

Capacity	Completion	Est. Annual Output in GWh <sup>1</sup>	Target Completion
400 MWac	Completed	1,067	Operating as of 2023

Stubbo Solar is a 400 MW solar and battery project located in the Central West Orana Renewable Energy Zone. It is ACEN Australia's second project, currently in construction.



~780,000 tonnes CO<sub>2</sub>e annual

carbon avoidance

~185,000 Average Australian

Homes powered

Est. Annua

Capacity	Completion	Output in GWh <sup>1</sup>	Target Completion
400 MWac	91%	1,075	H2 2025



# Pioneering partnership with traditional landowners in WA











- True partnership with the Yindjibarndi, traditional landowners in the Pilbara,
   Western Australia
- Develop, own, and operate up to 3 GW of large scale RE projects on Yindjibarndi country, an over 13,000 km<sup>2</sup> native title area in the Pilbara
- In its first MOU with Rio Tinto, YEC now developing the 75MWac/100MWdc Jinbi Solar Farm in the Millstream area of the Pilbara, slated for commissioning early 2027
- Generated RE power will also decarbonize the heavy industries in the area
- Allows Yindjibarndi to actively participate in Australia's energy transition in a significant way – equity participation in all projects
- Key benefits for the Yindjibarndi
  - Preferred contracting for Yindjibarndi-owned businesses
  - Training and employment for its people



# Australia Market Segments

Offtake Overview



## Retailers

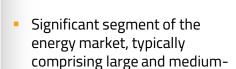


- Tier 1 AGL, Origin, Energy Australia, Snowy (Red/Lumo) – control 90% of retail market and tend to offer better credit conditions, but typically price up to 20% lower
- Tier 2 Engie, Flow Power, SEA, Zen, Alinta – tend to align with C&I customers, demand profiles likely to match better to solar hence pricing/value tend to be better

## Government **Businesses** and **Programs**

- Agreement with GOCs, particularly in Queensland with Stanwell, CS Energy and CleanCo, and in Tasmania with Hydro Tasmania
- Programs are set up to enable capacity to meet government targets and market demand, and allow upside revenues by trading in short- or long-term contracts to secure higher returns for equity (LTESA, CIS, VRET, LGC market)

# C&I Customers



volume energy users

- Includes various sectors such as manufacturing, retail, education, and healthcare
- C&I customers available throughout the NEM, as well as WA. In addition, off-grid industrial captive load is also moving to decarbonization.

# Tenders \*



- Typically corporate offtake (i.e., Amazon, Telstra, Newcrest Mine, Tomago smelter, KEPCO)
- Very competitive and counterparties typical look for lowest cost options
- They reinforce the value of the more direct relationships and what has been achieved already for NES Solar and BESS

## Merchant or Spot 🛨 Market (NEM)

- The National Electricity Market (NEM) functions as a wholesale market where generators and retailers trade electricity
- Market structure allows for competition, which can lead to more efficient pricing and better services for consumers
- Comprises five interconnected regions: QLD, NSW (including the ACT), VIC, TAS, and SA; WA and NT not part of the NEM





# Australian Spot Market Updates

Seasonal drops in spot prices supported by strong LGC prices



# NSW Historical Annual Average\* Spot Price in AUD per MWh

2015-2017 Buildup of solar capacity

High temperatures cause technical undersupply, load shedding

2018-2019 Duck curve & lower midday prices due to rooftop overbuild

2021 Weakened Rooftop demand overbuild exacerbates from pandemic duck curve lockdowns

Liddell 3 closure; NSW coal supply issues and outages: Russian invasion of

Ukraine

2022

and spring due to El Gov't coal price caps; full closure of Liddell

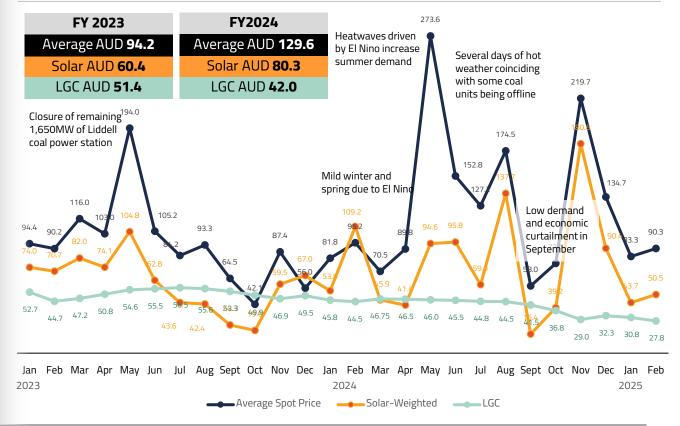
2023

Mild winter



# NSW Monthly Average\* Spot Price, 2023-2024

in AUD per MWh



Source: AEMO, ACEN company analysis

\*Straight average



# Vietnam Lao PDR

# PDP8 halves coal pipeline, sets 2030 RE targets





#### **Feed-in Tariffs**

- All of ACEN's operating plants in Vietnam carry FIT subsidies with EVN
- Solar: 9.35 U.S. cents per KWh until 2039<sup>3</sup>;
   Wind: 8.5 U.S. cents per KWh until 2041
- Lac Hoa and Hoa Dong Wind COD Q4 2023: 897 VND/kWh, 50% of maximum; permanent tariff in negotiation with EVN; to be applied retroactively to COD

#### **ACEN**

- Among the top tier foreign investors in Vietnam renewables
- Track record of RE scale up from standing start to over ~2,300 MW gross

Strategic partnerships enabled ACEN's expansion













- Manufacturing demand expected to grow, despite slowdown in 2023
  - Manufacturing in Vietnam is 25% of GDP (2022)<sup>4</sup>
  - 10-12% p.a. growth to 2030
  - Power shortages during dry season in the north and south economic hubs
  - Vietnam is an attractive alternative manufacturing destination for MNCs diversifying footprint
  - Renewables are a must for MNCs to meet the RE100 target

- PDP8<sup>5</sup> initially enlists gas, then wind, for energy transition
- By 2030:
  - 22 GW onshore wind
  - 6 GW offshore wind
  - 2.27 GW biomass
  - 29 GW hydro
  - 0.3 GW battery storage
- New coal pipeline cut from 26 GW to 13 GW
- Net zero by 2050 maintained



As of 31 October 2024, includes committed (board-approved) projects

<sup>2.</sup> Including 146 MW from 600 MW Monsoon Wind

Tariff for Ninh Thuan Solar expansion is USD 7.09 cents up to 2040

<sup>4.</sup> World Bank

Power Development Plan VIII (PDP8) Decision of the Prime Minister No. 500/QD-TTg

# India

# Low-cost, sizeable and growing market; underpinned by strong strategic partnerships





#### **Masaya** Solar

- Khandwa, Madhya Pradesh
- 420 MW installed cap.698 GWh estimated
- 698 GWh estimate annual output
- **~83,000 MT** CO<sub>2</sub>e avoidance annually
- 24,000 homes powered

#### Sitara Solar

- Rajasthan140 MW installed cap.
- ~200 GWh estimated annual output
- ~170,000 MT CO<sub>2</sub>e avoidance annually
  - **49,000** homes powered

#### Paryapt Solar

- Gujarat
- 70 MW installed cap.
- **~95 GWh** estimated annual output
- ~82,000 MT CO<sub>2</sub>e avoidance annually
- **24,000** homes powered

#### Maharashtra C&I Hybrid Solar-Wind

- Narangwadi, Maharashtra
- ~236,000 MT CO<sub>2</sub>e avoidance annually
- **153 MW** installed cap.
  - **~290 GWh** estimated power annual output
- **68,400** homes powered

- Frequent renewable energy auctions held to achieve commitment<sup>1</sup>
  - New federal timeline plans to strike agreements on 50 GW of solar and wind from April 2023 to March 2024 vs. only 15 GW auctioned annually in the last five years, according to BloombergNEF
  - Targeting to build out 500 GW renewable energy by 2030; equivalent to 55% of projected, total installed capacity<sup>2</sup>
- Contract-then-build approach secures offtake and guarantees returns
  - Contracts won at bid auctions hosted by state-owned offtakers (e.g., SECI, GUVNL) are secured first before construction begins
  - To encourage investment, state power companies are rated by the Investment Information & Credit Rating Agency of India (ICRA)
  - SECI is rated AAA (Stable), while GUVNL is rated AA- (Stable)

- 1. Economic Times by The Times of India.
- 2. Government of India, National Electricity Plan.



# Indonesia

# Still overweight on fossil fuels, but setting modest renewables targets to meet Net Zero commitments



# 105 MW<sup>1</sup>

Attributable capacity, all with USD-linked longterm contracts with inflation adjustment

703 MW Salak & Darajat Geothermal<sup>2</sup>

ACEN's first investment outside the Philippines



- Strong demand for power, PLN³ power plan projects significant increase by 2030
  - Indonesia's Electricity Business Plan, RUPTL, projects an **additional 21 GW of renewables capacity** to be added between 2021-2030
- Committed to net zero emissions by 2060 despite being the world's third-largest coal producer
  - Working with the ADB on a replicable model for energy transition of coal-fired plants
- ACEN continues to sign strategic partnerships in anticipation of eventual renewables growth in the region
  - Announced partnership with **Barito Renewables** for acquisition of Indonesia wind projects
  - **Sale of Sidrap Wind 1** (75 MW) in parallel with **acquisition of 49% of three late-stage wind assets** totalling 320 MW in South Sulawesi, Sukabumi, and Lombok provinces







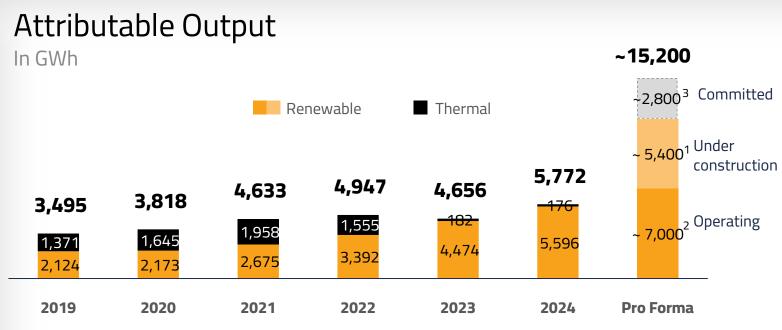


- 1. As of 31 October 2024.
- 2. Including 15 MW Salak Binary and 40 MW Salak Unit 7 plants, under construction
- 3. Perusahaan Listrik Negara, State Electricity Company of Indonesia.



# Significantly higher projected output as projects operationalize





The ~2,200 MW<sup>4</sup> of projects currently under construction/acquisition are expected to all be fully operational by 2026

These are expected to add ~5,400 GWh of output on a full-year basis, and more than offset the reduction of thermal-based output



Estimated attributable annual output from projects under construction, assuming full-year operations. Includes full acquisition of a 49% stake in SUPER's Solar NT platform in Vietnam and estimated attributable annual output from Ouezon North 1.

output from thermal plants. Accounts for Sidrap Wind 1 divestment. Estimated attributable output from board-approved RE plants

<sup>2.</sup> Estimated attributable annual output from operating plants, assuming full-year operations. Excludes

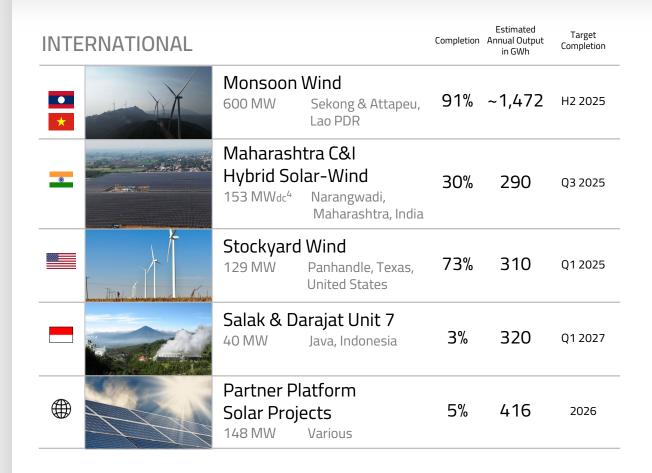
Includes full acquisition of a 49% stake in SUPER's Solar NT platform in Vietnam and capacity from Ouezon North 1.

# Construction Updates 31 December 2024

PHILIPPINES		Completion	Estimated Annual Output in GWh <sup>1</sup>	Target Completion
	Palauig 2 Solar 300 MWdc Zambales	84%	453	H1 2026
	SanMar Solar (Phase 3) 200 MWdc San Marcelino, Zambales	5%	298	H1 2026
	<b>Quezon North Wind</b> 553 MWdc² Real & Mauban, Quezon	4% <sup>3</sup>	1,730²	QN1: Q4 2026 QN2: Q4 2027

#### INTERNATIONAL

SILE NIK *	Stubbo Sc 520 MWdc	olar Central Western Tablelands, NSW, Australia	91%	1,075	H2 2025
SILE XINS *	New Engla 200 MWac	and BESS Uralla, NSW, Australia	8%	-	H2 2026



<sup>4.</sup> Solar portion upsized to 124 MWdc from 102 MWdc to take advantage of recent decline in module prices



Expected annual output; all MW capacities and GWh output figures shown in gross terms, not attributable

<sup>2.</sup> Total for Quezon North 1 (345 MW) and Quezon North 2 (208 MW)

<sup>3.</sup> Phase 1 only

# We have accelerated our sustainability progress, integrating ESG practices into every business decision



Progress compared to 2023 score

2024 2023



**A**-

C



BBB

BBB

45

36.8

S&P Global

54

29.0

Notes on scores: CDP: Climate change score Sustainalytics: ACEN garnered a lower ESG risk rating from high risk to medium risk

## **Biodiversity**

Forest protection

94 KT carbon stored

Nature-based solutions

~555,800 trees planted

Reforestation

1,017,000

~2,200

~345 Mn MT CO<sub>2</sub>e equivalent

~1,300 ha forestland protected

trees planted across 39 sites

natural habitat areas protected

Conservation estate in Ilocos Norte

over 1 million seedlings produced





# Marine & wildlife protection

# Nature-based solutions: blue carbon

Pawikan conservation program at the Conservation estate in Ilocos Norte ~2,180 sea turtle hatchlings released

## 1 Million Trees by 2025 Wildlife conservation

#### 14 species

of reptiles, birds and mammals threatened species protected

## Resource efficiency



# Circularity in our construction sites

plastics collected from our projects
~380,000
eco-products produced
~73,000

52,000 kg

eco-products integrated in generation facilities

## Community Eco Hub

Agrivoltaics over 12,000 kg of crops produced since 2022 6,000 merino sheep integrated in solar grazing

## Social programs



# ~₱636 M in community investments, benefitting:

45,977 individuals
9,132 families
233 communities
516 local government
organizations
over 22 livelihood groups
357 schools
over 44 local organizations
and IP tribes

~20,450 jobs created in 2023



# Sustainability and impact milestones



# ACEN achieves Leadership level in CDP's climate change assessment

- ACEN's A- rating upgrades the company to Leadership level, up from last year's B rating (Management level)
- To attain Leadership status, companies must demonstrate best practices in climate action, governance, transparency, risk management and target setting

# ACEN wins at the inaugural DOE Sustainable Energy Awards

- ACEN's 81 MW North Luzon Renewables wind project won under the category: Renewable Energy Projects in On-Grid Areas
- The DOE Sustainable Energy Awards recognizes stakeholders in the RE sector, with categories for RE Projects, Private Institutions and Local Government Units

# One million trees planted – achieved a year ahead of target

- As of end-2024, 1.017 million trees have been planted across 2,815 hectares of forestland
  - Philippines: 794,087 trees across2,188 hectares
  - International: 223,016 trees across 627 hectares



# Supplemental Information





# ACEN is the renewable energy platform of the Ayala group



### CORE VALUE DRIVERS





#### Ownership: 58.2%<sup>1</sup>

One of the fastest growing energy companies in the region, aspiring to be the largest listed renewables platform in Southeast Asia

Market cap3: ~US\$2.2 Bn



# **X**AyalaLand

#### Ownership: 52.0%<sup>2</sup>

Leading property developer in the country with solid track record of developing largescale, mixed-use, and sustainable estates across over 12,000 hectares of landbank

Market cap3: ~US\$5.5 Bn





#### **Ownership: 45.4%**<sup>2</sup>

Among the top three banks in the country with established leadership in new banking technology and sustainable financing

Market cap3: ~US\$11.3 Bn





#### Ownership: 30.7%<sup>2</sup>

Digital platform with market leadership in telecommunications and fintech and major interests in digital marketing solutions, venture capital funding, etc.

Market cap3: ~US\$5.7 Bn

# **Emerging Businesses**







#### Portfolio Investments





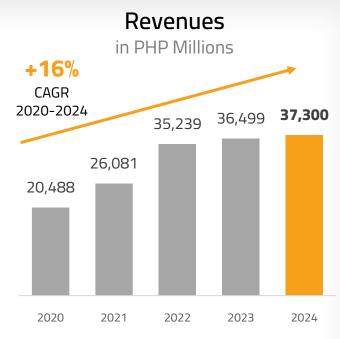




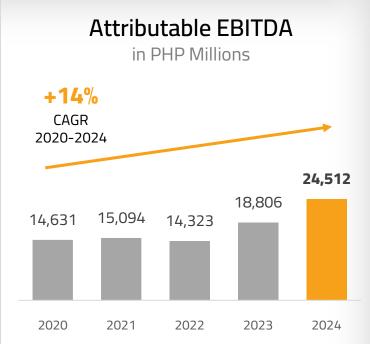
- Ownership held by AC Energy and Infrastructure Corp. (ACEIC), a wholly-owned Ayala subsidiary, after distribution of property dividends, as of Public Ownership Report 31 December 2024.
- As of Public Ownership Report 31 December 2024 available from Philippine Stock Exchange data. ALI includes Mermac, Inc. share; BPI includes Liontide Holdings, Inc. share.
- Market capitalization from Philippine Stock Exchange data as of 28 February 2025; exchange rate of ₱58.094 = US\$1



# Historical Income Statement



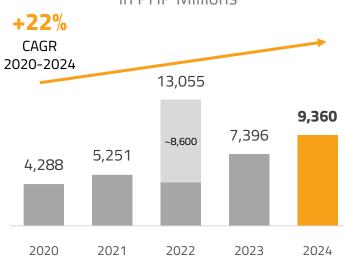
- Revenues steadily increased over the last three years with growth in operating renewables capacity
- Increase in FY 2023 revenues driven by ramp-up of commissioning in newly operational plants, offset by normalized lower WESM prices
- Decline in H1 2024 revenues due to shift in WESM trading strategy; no material impact on NIAT



- Attributable EBITDA improved in 2023 with net selling position, lower cost of purchased power, as well as stronger retail tariffs
- Slight dip in FY2022 due to net buying in high-WESM environment and provision for a Supreme Court decision, offset by contribution of new International plants

# Net Income Attributable to Parent

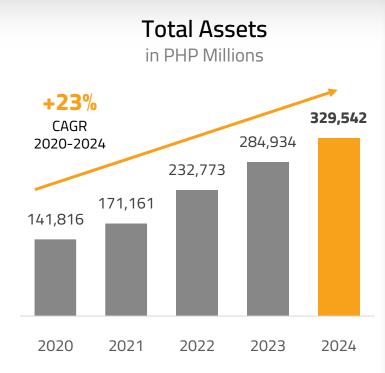
in PHP Millions



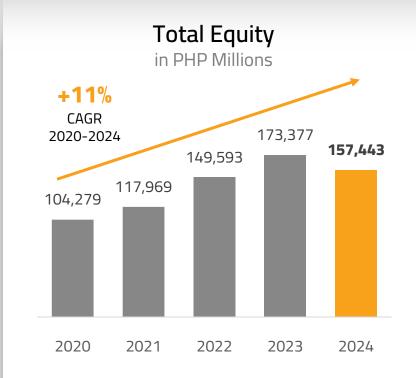
- Net Income ex-2022 one offs more than doubled in 2023, exaccounting adjustments, driven by strong core operating earnings, arising from the continued ramp-up of new RE capacity, tempered by construction delays
- 2024 NIAT includes 1H cash gains from sale of assets: reduction of stake in Mui Ne, full divestment of Sidrap Wind
- Q3 2024 gain included acquisition of AREIT shares, considered an asset exchange for ACEN's Zambales properties



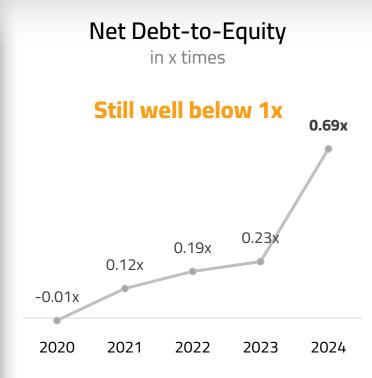
# Historical Balance Sheet



 Assets grew with increased investments in greenfield developments, as well as cash raised from equity issuances and borrowings



- Increase in equity due to several capital raising initiatives: SRO, FOO, GIC investment
- Increase in 2022 mainly due to share issuances to UPC, as well as growth in retained earnings



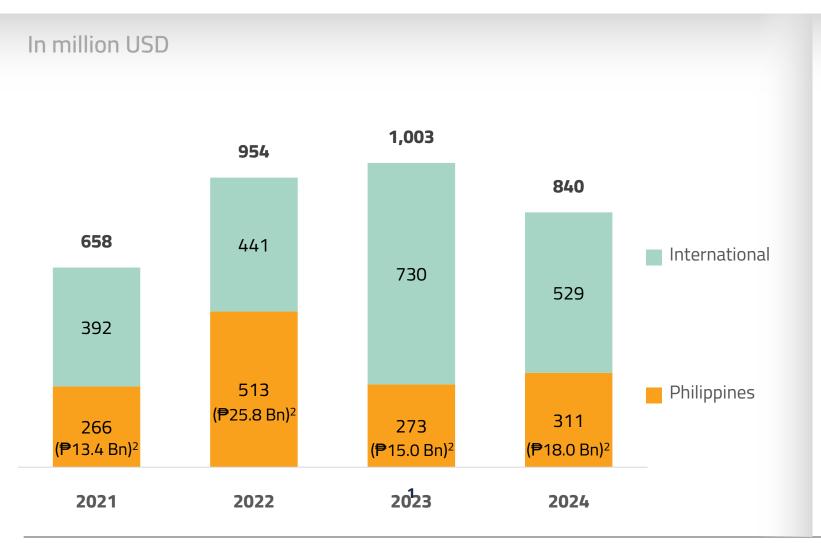
Healthy leverage ratios despite increased borrowings for renewables capacity expansion



<sup>1.</sup> External Debt less Cash and Cash Equivalents, over Total Equity.

# FY 2024 Capital Expenditures

Continued renewables expansion, offset by the impact of construction delays



- Majority of capex to support rapid portfolio growth in the Philippines, Australia, and India
- Capex spend expected to grow with 4.7 GW currently under construction/ acquisition and new projects in the pipeline
- Estimated ₱70 Bn (US\$1.2 Bn)
   in 2025



<sup>1.</sup> FY 2022 capex includes acquisition cost of ACEN Australia platform.

<sup>2.</sup> Based on period-end USD-PHP rate from the Bangko Sentral ng Pilipinas.

# ACEN's Funding Journey

2019

2020

2021

2022

2023 and beyond

#### **February**

US\$ 410 Mn

ACEIC Senior Green Bonds 4.75% 5Y due 2024

5.25% 10Y due 2029

Listed in SGX

#### November

US\$ 400 Mn

ACEIC Fixed-For-Life Green Bonds 5.65% callable in 2022 (Fully called) Listed in SGX

#### July

US\$ 60 Mn

ACEIC Senior Green Bonds Tap of 4.75% 5Y due 2024 Listed in SGX

#### November

US\$ 300 Mn

ACEIC Fixed-For-Life Green Bonds 5.10% callable in 2025 Listed in SGX

### September

US\$ 400 Mn

ACEN Fixed-For-Life Green Bonds 4.00% callable in 2025 Listed in SGX

### September

PHP 10 Bn

ACEN Pesodenominated ASEAN Green Bonds 6.0526% due 2027 Listed in PDEX

#### November

PHP 17.4 Bn

SLTEC Energy Transition Mechanism

#### September

PHP 25 Bn

ACEN Preferred Shares issuance Series A (NC3,SU5) – 7.1330% Series B (NC7, FFL) – 8.0000% Listed in PSE

#### December

PHP 11 Bn

ADB Sustainability Linked Facility

#### **Shelf Registration**

US\$ 1.1 Bn USD MTN Program
PHP 20 Bn Debt Securities Shelf
PHP 25 Bn Preferred Shares Shelf







The Climate Bond Certification is for the \$410 Mn Senior Green Bond issued in February 2019. All other bonds issued/guaranteed by ACEIC and ACEN have followed ASEAN Green Bond Standards.





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