

PRIVATE SECTOR INITIATED POWER PROJECTS (LUZON)

COMMITTED

As of 31 October 2016

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Testing & Commissioning	Target Commercial Operation
	COAL			2720			
Committed	Limay Power Plant Project Phase I	SMC Consolidated Power Corporation	Brgy. Lamao, Limay, Bataan	300	<p><b>'ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b> Completed;</p> <p><b>MARKETING OF GENERATING CAPACITIES:</b></p> <ul style="list-style-type: none"> <li>On-going electric power supply contract negotiation with prospective off-takers (DUs);</li> <li>For Unit 1 - ISECO-10MW, TARELCO I-10MW, TARELCO II-15MW, PENELCO-10MW, REAL STEEL-7MW, SMC (Various Facilities)-60.3MW; For Unit 2 – PENELCO-10MW, OCEANA GOLD-12.5MW, REAL STEEL-17MW, SMC (Various Facilities)-37.1MW; 188.9 TOTAL</li> </ul> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Environmental Impact Assessment completed;</li> <li>Topographic and Hydrographic completed;</li> <li>Soil Investigation completed;</li> <li>GIS/SIS submitted last 12 July 2013, under review of NGCP;</li> <li>Facility Study already sent to NGCP for review;</li> <li>EPC was executed in January 2013; awarded;</li> <li>ECC was issued on 17 September 2013;</li> <li>SEC issued last 19 August 2011</li> <li>Clearance to Undertake GIS from DOE issued on 13 February 2013;</li> <li>Addendum for the re run of SIS was submitted to NGCP last Jan 30, 2015 for review;</li> </ul> <p><b>GROUND BREAKING SCHEDULES:</b></p> <ul style="list-style-type: none"> <li>Groundbreaking was held September 2014;</li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>Financial Arrangement Secured (65% Loan / 35% Equity);</li> <li>Project cost is \$622.15M / Php25.508B</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>Construction of the Project has been underway since January 2014;</li> <li>Construction Activities of Unit 1&amp;2 x 150MW Power Plant - 2.30%;</li> <li>Design and Construction of Pier and Jetty Structure is 99.55%; <ul style="list-style-type: none"> <li>Overall Piling Works is 52.29%;</li> <li>Turbine and Generator Building is 58.47%;</li> <li>Ash Dump Design and Construction - 100%;</li> </ul> </li> </ul> <p><b>COMMENCEMENT OF CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>March 2014;</li> </ul>	Unit 1 - 150 MW -October 2016 Unit 2 - 150 MW - April 2017	Unit 1 - 150 MW - November 2016 Unit 2 - 150 MW - July 2017
Committed	Pagbilao Coal-Fired Thermal Power Plant	Pagbilao Energy Corporation	Pagbilao Power Station, Nrgy. Ibabang Polo, Pagbilao, Quezon	420	<p><b>FEASIBILITY STUDY:</b></p> <ul style="list-style-type: none"> <li>Feasibility Study completed;</li> <li>Estimated Net Capacity: 400MW</li> </ul> <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b> Completed;</p> <p><b>MARKETING OF GENERATING CAPACITIES:</b></p> <ul style="list-style-type: none"> <li>Contract with off-takers completed, Supply agreement executed;</li> <li>50% of the plant's capability will be sold to Therna Luzon Inc. <ul style="list-style-type: none"> <li>50% will be sold to Team (Phils.) Energy Corporation;</li> </ul> </li> </ul> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Environmental Compliance Certificate was issued on 18 June 2013;</li> <li>Secured endorsement from Sangguniang Barangay of Ibabang Polo, Sangguniang Bayan of Pagbilao, Sangguniang Panlalawigan of Quezon;</li> <li>ECC issued on 18 June 2013</li> <li>In final negotiations with NPC, PSALM, Team Energy Corporation and Therna Luzon, Inc. to co-locate the plant in the existing Pagbilao Power Station;</li> </ul> <p><b>GROUND BREAKING SCHEDULES:</b></p> <ul style="list-style-type: none"> <li>23 July 2014</li> </ul>	Between May to November 2017	November 2017

					<p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>Financial Arrangement Secured with various lenders on 30 July 2014; On-going draw downs for planned milestones and progress payments;</li> <li>Estimated Project Cost: US\$ 1,000,000,000.00</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>Construction Contracts for Plant &amp; Equipment: Completed and executed; <ul style="list-style-type: none"> <li>Notice to Proceed and Commencement</li> </ul> </li> <li>Notice issued to EPC Contractor; Down Payment already released to EPC contractor;</li> <li>Commencement of EPC and Construction: May 2014; Approximately 71% completed as of February 2016; <ul style="list-style-type: none"> <li>84.32% completion as of 25 July 2016</li> <li>86.49% completion as of 26 August 2016</li> </ul> </li> </ul>		
Committed	San Buenaventura Power Ltd. Co. (SBPL) Project	San Buenaventura Power Ltd. Co. (SBPL)	Mauban, Quezon	500	<p><b>FEASIBILITY STUDY: Completed</b></p> <ul style="list-style-type: none"> <li>Completed Selection Study in 2012; Technology selection study completed 2012 <ul style="list-style-type: none"> <li>Coal Sourcing Study completed in 2012</li> </ul> </li> <li>Facility Study to be done in 2014; System Impact Study completed 2007 and revalidated 2013</li> </ul> <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b></p> <ul style="list-style-type: none"> <li>Project will be located within the existing site</li> </ul> <p><b>MARKETING OF GENERATING CAPACITIES:</b></p> <ul style="list-style-type: none"> <li>20 years + 5-year extension PSA with MERALCO as offtaker;</li> <li>Awaiting for the ERC approval of their PSA with MERALCO;</li> <li>SBPL has signed a PSA with Meralco on 29 May 2014; PSA approved by ERC on March 27, 2015 and released May 19, 2015</li> </ul> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Clearance to Undertake GIS from DOE issued on 7 March 2013;</li> <li>System Impact Study completed in 2007 and is being revalidated in 2013; <ul style="list-style-type: none"> <li>ECC (Ref Code 0610-012-4021) issued on 4 June 2007;</li> </ul> </li> <li>ECC extension of validity issued on 31 May 2012 and valid until 4 June 2015; ECC for SBPL issued on 11 November 2014 <ul style="list-style-type: none"> <li>Request for Amendment to upgraded technology submitted to EMB on 17 February 2014 <ul style="list-style-type: none"> <li>Request to assign the ECC for new project was requested on 2 June 2014;</li> </ul> </li> </ul> </li> <li>Additional information requested by EMB on 7 August 2014; QPL is in the process of preparing the documents; <ul style="list-style-type: none"> <li>Secured Sanggunian Bayan Resolution No. 2014-269 endorsing the project to expand; <ul style="list-style-type: none"> <li>SIS completed in 2007 and is being revalidated;</li> <li>Municipal LGU endorsement issued April 19, 2005;</li> </ul> </li> </ul> </li> </ul> <ul style="list-style-type: none"> <li>Certificate of Non-Overlap was issued by the NCIP to Quezon Power on 5 February 2014; Request to assign the CNO was endorsed by the DOE and submitted to the NCIP on 15 July 2014; Certificate of Non-overlap issued on 29 August 2014</li> <li>ERC application was filed on 2 June 2014; Financing arrangements is expected to be secured only after the ERC issues the final approval; BOI Certificate of Registration issued on 15 October 2015</li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>Financing arrangements is expected to be secured only after the ERC issues the final approval; Financially closed December 1, 2015 <ul style="list-style-type: none"> <li>Project cost is Php37.8B</li> </ul> </li> </ul> <p><b>GROUND BREAKING SCHEDULES:</b></p> <ul style="list-style-type: none"> <li>December 10, 2015</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>Owner's Engineer selected; EPIC bids received in November 2013 <ul style="list-style-type: none"> <li>EPC Contract signed October 2014;</li> </ul> </li> </ul> <p><b>COMMENCEMENT OF CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>Award EPC contract estimate September 2013; <ul style="list-style-type: none"> <li>End of 2014</li> </ul> </li> <li>Expect to commence construction only after the ERC issues the final approval <ul style="list-style-type: none"> <li>4 years to fully complete the construction of the plant;</li> </ul> </li> </ul>	December 2018	December 2019
					<p><b>FEASIBILITY STUDY:</b></p> <ul style="list-style-type: none"> <li>Completed February 2011</li> </ul> <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b></p> <ul style="list-style-type: none"> <li>No additional land will be acquired as the expansion will be inside the existing Masinloc Power Plant Complex.</li> <li>NPC/PSALM, however, is still continuing the titling process and land registration for some parcels of land</li> </ul>		

Committed	Masinloc Expansion Project	AES Masinloc Power Partners Co., Inc.	Zambales	300	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>• Grid Impact Studies obtained on 7 January 2011</li> <li>• ECC Amendment was released by DENR on April 23, 2012</li> <li>• The amended DOE Certificate of Endorsement for BOI was released on May 7, 2012 <ul style="list-style-type: none"> <li>• Secured CoE for ERC on September 2011</li> </ul> </li> <li>• On-going processing of Certificate of Precondition from NCIP <ul style="list-style-type: none"> <li>• SAPA amendment is still pending with DENR</li> </ul> </li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>• Provided bank certification for financial closing status to DOE dated 24 August 2016; <ul style="list-style-type: none"> <li>• Project cost is Php49.45B</li> </ul> </li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>• Selection of EPC Contractor on going</li> </ul> <p><b>COMMENCEMENT OF CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>• 2nd Qtr 2014</li> </ul>	Unit 3 - September 2019	December 2019 (Target Testing and Commissioning)
Committed	GNPower Dinginin 2 x 660 MW Supercritical Coal-Fired Power Plant	GNPower Dinginin Coal Plant Ltd. Co.	Mariveles, Bataan	1200	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>• On-going presentation/proposal submissions to potential customers</li> <li>• Clearance to Undertake GIS from DOE issued on 26 June 2011;</li> <li>• Obtained LGU endorsements; BOI registration for 600 MW pre-approve <ul style="list-style-type: none"> <li>• On-going SI;</li> <li>• On-going EIS for ECC application</li> </ul> </li> <li>• On-going securing DOE of Endorsement for DENR-ECC Arrangements for securing the required land will be acquired by an affiliate Filipino company of GNPower;</li> <li>• On-going negotiation with tenders</li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>• Project cost is \$1B</li> <li>• Provided bank certification which was received by DOE-EPIMB-PPDD on 18 March 2016</li> <li>• With Financial Closing, agreed by GNPD and banks/financial institutions on 17 December 2015</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>• On-going finalization of EPC Contract</li> <li>• EPC Contract was signed on Oct 27, 2015</li> </ul>	Unit I - Oct 2018 Unit II - 2019	Unit I - March 2019 Unit II - January 2020

NATURAL GAS				1100			
Committed	San Gabriel Power Plant (Phase II)	First NatGas Power Corp.	Santa Rita, Batangas	450	<p><b>MARKETING OF GENERATING CAPACITIES:</b></p> <ul style="list-style-type: none"> <li>Discussion with target off takers targeted for the first half of 2014; still on-going (17 June 2015); looking at teaming up with MERALCO and other potential offtakers and/or offer the available capacity to the spot market (WESM).</li> </ul> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Secured Clearance from DOE for the conduct of GIS on 18 February 2013</li> <li>Engineering, Procurement and Construction (EPC) and Operations Maintenance (O&amp;M) contracts already awarded on December 16, 2013</li> <li>Ongoing application for the Permit to operate mechanical equipment such as boilers, pressure vessels etc from City Engineers office of Batangas; <ul style="list-style-type: none"> <li>Ongoing application for COE and MOA from DOE;</li> <li>Ongoing application for ERC point to point connection of transmission lines for Sta. Rita, San Lorenzo switchyard;</li> <li>Ongoing negotiations with NGCP for contract metering and Transmission Service Agreement;</li> <li>SIS was approved by NGCP on 11 December 2013.</li> </ul> </li> <li>Processing of the application of COC with ERC is ongoing. Technical inspection is targeted to be done in the 3rd week of May 2016 <ul style="list-style-type: none"> <li>The application of First NatGas Power Corp (FNPC) to be a direct member of WESM was approved on 26 February 2016</li> <li>San Gabriel achieved its first GT firing on 11 April 2016</li> <li>First synchronization to the grid was achieved on 13 April 2016</li> <li>Targeting to conduct its first combined-cycle operation on 04 May 2016</li> </ul> </li> <li>Awaiting approval from DENR Central Office of the assignment of foreshore lease between First Gas Power Corp and FNPC <ul style="list-style-type: none"> <li>Permit to Operate application to the City Engineer's Office is ongoing.</li> </ul> </li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>Financial Arrangement with kFW Secured on 4 September 2014</li> <li>Project cost is US\$600 Million; bilateral contracts on the grid and NGCP for station-use/feed-back power</li> </ul> <p><b>COMMENCEMENT OF CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>16 December 2013;</li> <li>98.8% completed as of March 2016</li> </ul> <p><b>FEASIBILITY STUDY:</b></p> <ul style="list-style-type: none"> <li>Completed</li> </ul>	April 2016	Nov 2016 (Awaiting ERC-COC)
Committed	Pagbilao Combined Cycle Gas Fired Power Plant Proposed 3x200 MW CCGT Power Plant	Energy World Corporation	Brgy. Ibabang Polo, Grande Island, Pagbilao, Quezon	650	<p><b>'ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b></p> <ul style="list-style-type: none"> <li>Land is already secured with a long lease entered into since 2007</li> </ul> <p><b>MARKETING OF GENERATING CAPACITIES:</b></p> <ul style="list-style-type: none"> <li>No specific off taker yet but already have a discussion with Federation of Philippine Industries, intended to supply power into the Wholesale Electricity Spot Market but is also open to discussing potential off take arrangements as well <ul style="list-style-type: none"> <li>100% WESM</li> </ul> </li> </ul> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>GIS for 300MW issued by NGCP on 8 August 2013 and revised on 3 July 2013 for 600MW</li> <li>Issued DOE Endorsement for Revised Capacity on 3 July 2013;</li> <li>Revised DOE clearance for GIS submitted to NGCP on January 2014</li> <li>GIS from NGCP for the 600MW was released on August 2014;</li> </ul> <p>Several Resolutions has been issued on May 2014 (Sangguniang Barangay Resolution, Sangguniang Bayan Resolution and Sangguniang Panlalawigan Resolution) interposing no objection for the construction of a 600 MW Liquefied Natural Gas (LNG) Power Plant;</p> <ul style="list-style-type: none"> <li>On-going processing of ECC for power plant</li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>Financial Arrangement Secured <ul style="list-style-type: none"> <li>Syndicated Loan</li> <li>Project Cost:\$300M</li> </ul> </li> <li>Signing of loan agreement last 18 Sep 2015</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>Entered into a Sale and Purchase Agreement last October 2012 with Siemens Energy for two 200 MW gas turbines and the first 200MW turbine is expected to arrive by September 2014;</li> <li>LNG Tank is currently at 50% construction completed as of August 2014;</li> </ul> <p><b>COMMENCEMENT OF CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>December 2013</li> <li>Completed</li> </ul>	U1 - Feb 2017 U2 - May 2017 U3 - Aug 2017	U1 - Feb 2017 U2 - May 2017 U3 - Aug 2017 (Target Testing and Commissioning)
HYDROPOWER				62.5			
Committed	Kapangan	Cordillera Hydro Electric Power Corporation	Kapangan & Kibungan, Benguet	60	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>issued Confirmation of Commerciality on 13 February 2014</li> </ul> <p><b>COMMENCEMENT OF CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>On-going civil works of hydro facilities</li> </ul>	February 2019	February 2019

Committed	Prismc	PNOC-Renewables Corporation	Rizal, Nueva Ecija	1	<p><b>GROUND BREAKING SCHEDULES:</b></p> <ul style="list-style-type: none"> <li>Ground breaking held on 11 July 2014; Confirmed DOC on 4 September 2014; Rehabilitation</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>On-going construction activities</li> </ul>	September 2019	September 2019
Committed	Tubao	Tubao Mini-Hydro Electric Corporation	Tubao, La Union	1.5	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Issued Confirmation of Commerciality on 19 March 2015</li> </ul> <p><b>GROUND BREAKING SCHEDULES:</b></p> <ul style="list-style-type: none"> <li>Ground breaking held on 8 November 2014</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>Pending submission of requirements for construction</li> </ul>	March 2020	March 2020
<b>SOLAR</b>				<b>52.975</b>			
Committed	Bataan Solar Power Project	Next Generation Power Technology Corp. (NGPT)	Brgy. Alas-asin, Mariveles, Bataan	18	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Awarded with RE Service Contract (SESC No. 2014-04-076) on 12 May 2014</li> <li>Certificate of Commerciality No. SCC- 2016-03-048 dated 11 March 2016</li> </ul>	March 2016 (On-going Testing and Commissioning)	November 2016
Committed	Dalayap Solar Power Project	NV Vogt Philippines Solar Energy Four, Inc. (NV VOGT 4)	Brgy. Dalayap, Tarlac City, Tarlac	7.48	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Awarded with RE Service Contract (SESC No. 2016-02-278) on 19 Feb 2016</li> <li>Certificate of Commerciality No. SCC- 2016-03-049 dated 14 March 2016</li> </ul>	April 2016 (On-going Testing and Commissioning)	November 2016
Committed	Armenia Solar Power Project	NV Vogt Philippines Solar Energy Three, Inc. (NV VOGT 3)	Brgy. Armenia, Tarlac City, Tarlac	8.84	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Awarded with RE Service Contract (SESC No. 2016-02-227) on 19 Feb 2016</li> <li>Certificate of Commerciality No. SCC- 2016-03-050 dated 14 March 2016</li> </ul>	April 2016 (On-going Testing and Commissioning)	November 2016
Committed	CW Home Depot Solar Power Project	CW Marketing & Development Corp. (CW)	CW Home Depot, Brgy. Pulong, Sta. Rosa City, Laguna	1.675	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Awarded with RE Service Contract (SESC No. 2016-02-228) on 07 Mar 2016</li> <li>Certificate of Commerciality No. SCC- 2016-03-054 dated 31 March 2016</li> </ul>	September 2016 (On-going Testing and Commissioning)	November 2016
Committed	San Rafael Solar Power Plant	SPARC Solar Powered Agri-Rural Communities Corporation	San Rafael, Bulacan	3.82	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Awarded with Solar Energy Service Contract (SESC No. 2012-03-012) on 03 May 2012</li> <li>Certificate of Commerciality No. SCC- 2015-10-035 dated 10 November 2015</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>On-going construction (see FIT Monitoring Board)</li> </ul>	July 2016 (On-going Testing and Commissioning)	November 2016
Committed	Morong Solar Power Plant	SPARC Solar Power Agri-Rural Communities	Morong, Bataan	5.02	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Awarded with Solar Energy Service Contract (SESC No. 2012-03-012) on 03 May 2012</li> <li>Certificate of Commerciality No. SCC- 2015-10-037 dated 10 November 2015</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>On-going construction (see FIT Monitoring Board)</li> </ul>	June 2016 (On-going Testing and Commissioning)	November 2016
Committed	Sta. Rita Solar Phase 1 Power Project	Jobin-Sqm Inc.	Morong and Hermosa, Bataan	7.14	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Awarded with Solar Energy Service Contract (SESC No. 2013-10-039) on 30 October 2013;</li> <li>Certificate of Commerciality No. SCC- 2015-09-021 dated 28 August 2015;</li> </ul> <p><b>CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>On-going construction (see FIT Monitoring Board)</li> </ul>	November 2016	December 2016

Committed	Sarrat Solar Power Project	Bosung Solartec, Inc. (BOSUNG)	Brgy. 21 San Marcos, Sarrat, Ilocos Norte	1	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Awarded with RE Service Contract (SESC No. 2016-02-276) on 19 Feb 2016</li> <li>Certificate of Commerciality No. SCC-2016-03-052 dated 22 March 2016</li> </ul>	November 2016	December 2016
<b>WIND</b>				<b>0</b>			
<b>GEOHERMAL</b>				<b>43</b>			
Committed	Maibarara 2 Geothermal Project	Maibarara Geothermal Inc.	Batangas	12	<p><b>FEASIBILITY STUDY:</b> On-going</p> <p><b>MARKETING OF GENERATING CAPACITIES:</b></p> <ul style="list-style-type: none"> <li>The off-taker for generated power is still under negotiation</li> </ul> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Project is within the existing DOE Service Contract within GRESA # 2010-02-012 <ul style="list-style-type: none"> <li>LGU endorsement</li> <li>Land Use permits</li> <li>DENR-ECC and water rights obtained</li> </ul> </li> <li>Secured Certificate of Non-overlap from NCI regional Office IV</li> <li>Confirmation of Commerciality obtained from DOE on 21 September 2015;</li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>Project cost estimated PHP 1,848.30 Million</li> </ul>	August 2017	August 2017
Committed	Bacman 3 (Tanawon) Geothermal Project	Energy Development Corporation	Guinlajan, Sorsogon	31	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>DOE Service Contract within GRESA # 2009-10-003; <ul style="list-style-type: none"> <li>LGU endorsement</li> <li>Land Use Permits,</li> <li>DENR-ECC</li> <li>Water Rights obtained;</li> </ul> </li> <li>Turnkey Contract pending result of feasibility study under negotiation;</li> <li>Submitted Declaration of Commerciality (DOC) on 17 June 2014, evaluation by DOE of the DOC is still on-going;</li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>Project to be finance by EDC;</li> <li>Project cost estimated \$140M-180M</li> </ul>	December 2018	December 2018 (Target Testing and Commissioning)
<b>BIOMASS</b>				<b>22.9</b>			
Committed	ACNPC WTE Biomass Power Plant Project	Asian Carbon Neutral Power Corporation	Tarlac	1.5	<p><b>FINANCING ARRANGEMENTS:</b> Closed</p> <p><b>CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>On-going construction</li> </ul>	Phase 1 - November 2016 Phase 2 - TBD	Phase 1 - November 2016 (Target Testing and Commissioning) Phase 2 - TBD
Committed	Bicol Biomass Energy Corporation	Bicol Biomass Energy Corporation	Camarines Sur	4.5	<p><b>FINANCING ARRANGEMENTS:</b> Closed</p> <p><b>CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>On-going construction</li> </ul>	November 2016	November 2016 (Target Testing and Commissioning)
Committed	AseaGas Biogas Power Plant Project	AseaGas Corporation	Batangas	6.1	<p><b>CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>On-going construction</li> </ul>	November 2016	November 2016 (Target Testing and Commissioning)

Committed	SJCI Power Rice Husk-Fired Biomass power Plant Project Phase 2	San Jose City I Power Corporation	Brgy. Tulat, San Jose, Nueva Ecija	10.8	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>BREOC No. 2011-01-013</li> <li>ECC, LGU, Land Use Permit</li> <li>Secured Clearance from DOE for the conduct of GIS on 21 July 2011</li> <li>Issued Certificate Confirmation of Commerciality on 2 Sept 2013</li> </ul> <p><b>GROUND BREAKING SCHEDULES:</b></p> <ul style="list-style-type: none"> <li>Groundbreaking on 12 Oct 2013</li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>Project Cost Php1.234B</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>EPC w/ Engcon of Singapore</li> <li>Pre-construction (100% completed as of 31 August 2014 );</li> <li>Phase I - Estimated Accomplishment of Construction 98 % completed as of 31 August 2014 )</li> <li>Remaining major equipment in-progress is the installation of travelling gate</li> <li>On-going installations of the feed water piping system, chemical dosing pipeline, three control elements of the boiler and other field instruments <ul style="list-style-type: none"> <li>Expected arrival of switchyard is on May 2014</li> </ul> </li> <li>Interconnection (100% completed as of 31 August 2014 ) <ul style="list-style-type: none"> <li>On-going construction as of 30 September 2014</li> </ul> </li> <li>Pre-Construction - 100%; Construction-98%; Interconnection-100%</li> </ul>	June 2017 (Subject to FIT)	July 2017 (Subject to FIT)
Committed	Battery			10	<p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Secured GIS on June 2, 2015; COE issued 16 December 2015 (10MW BESS) <ul style="list-style-type: none"> <li>Receipt of ECC dated 5 Oct 2016</li> </ul> </li> <li>Construction Substantial Completion (MPPCL) dated 11 May 2016 <ul style="list-style-type: none"> <li>WESM Registration - 01 July 2016</li> <li>Provisional Approval to Connect (NGCP) - 08 July 2016</li> </ul> </li> <li>Approval of NGCP PGC Compliance Test Protocol for BESS (GMC) - 05 August 2016</li> <li>PGC Compliance Testing and Commissioning, including NGCP witnessing of Factory Acceptance Testing (NGCP) - 22 September 2016 <ul style="list-style-type: none"> <li>Receipt of signed Connection Agreement (NGCP) - 03 October 2016</li> </ul> </li> <li>Receipt of Signed Metering Services Agreement (NGCP) - 14 October 2016</li> </ul> <p><b>GROUND BREAKING SCHEDULES:</b></p> <ul style="list-style-type: none"> <li>Ground breaking ceremony 15 December 2015</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>Construction on going</li> </ul> <p><b>COMMENCEMENT OF CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>Target Commencement of Construction: June 2016</li> </ul>	Dec 2016	Dec 2017

Total Committed Rated Capacity 4001.375

\* Committed Project(s)

COAL	2720
DIESEL / OIL	-
NATURAL GAS	1100
GEO THERMAL	43
HYDROPOWER	62.5
SOLAR	52.975
WIND	0
BIOMASS	22.9
BESS	10
	<b>4001.375</b>
	TRUE