

PRIVATE SECTOR INITIATED POWER PROJECTS (MINDANAO)  
INDICATIVE  
As of 31 December 2019

| Committed / Indicative | Name of the Project                     | Project Proponent   | Location                                     | Rated Capacity (MW) | Project Status  |
|------------------------|---|---|--|---------------------|---|
|                        | COAL                                    |   |  | 928                 |   |
| Indicative             | Ozamiz Coal Fired Power Plant           | Ozamiz Power Generation, Inc. (wholly owned subsidiary of Avesco Marketing Corporation) | Brgy. Pulot, Ozamiz City, Misamis Occidental | 300                 | <p><b>FEASIBILITY STUDY:</b><br/>Final copy submitted last July 15, 2015</p> <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b><br/>-Land acquisition is 98% complete; 2% still on-going negotiation of which are in the final process of negotiation; Conversion of land from Agricultural to Industrial is on-going with release of CENRO (reclassification from CENRO city zoning); Permits and other regulatory requirements (arrange based on the sequence of date released)</p> <p><b>MARKETING OF GENERATING CAPACITIES:</b><br/>-Still in the process of marketing the electricity to the different cooperatives;</p> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>-Brgy Pulot Endorsement released last March 7, 2014; Ozamiz City Endorsement released last March 11, 2014; Certificate of Endorsement (CoE) released on June 4, 2015; Environmental Clearance Certificate released on 15 October 2015 (ECC-CO-1502-0002); Approved Grid/System Impact Study released on 7 January 2016; Certificate of Endorsement to BOI released last February 5, 2016; Certificate of Non-Overlap from NCIP was released February 1, 2017; Certificate of Non-Coverage from NCIP was released February 1, 2017; New CAAP Certificate of Height Clearance released last January 5, 2018; Facilities Study for the inter-connection service agreement contract with NGCP (pre-requisite); Applications for Board of Investments, Bureau of Customs, Foreshore Lease Agreement, Tree Cutting permit, PAA Clearance to Develop Private Port Facility, Local Government Permits, Transmission Service Agreement with NGCP, NWRB Water Permit Application (Business Permit, Fencing Permit, Zoning Permit) all on-going.</p> <p><b>ESTIMATED NUMBER OF JOBS GENERATED</b><br/>-During Construction Direct (Peak): 3600-4200; Indirect: 2500-3000<br/>During Operation-192</p> <p><b>GROUND BREAKING SCHEDULES:</b><br/>-1st Quarter of 2019, Phase 1 - 1 x 150 MW; and Phase 2 - 1 x 150 MW</p> <p><b>FINANCING ARRANGEMENTS:</b><br/>-On-going negotiation with prospective investor; Debt-Equity Ratio is 75:25</p> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b><br/>-On-going negotiations with prospective EPC Contractor</p> <p><b>COMMENCEMENT OF CONSTRUCTION:</b> Site clearing is 50% completed; Site Development Works- March 2019</p> <p><b>TARGET TESTING AND COMMISSIONING - July 2022</b><br/><b>TARGET COMMERCIAL OPERATION - January 2023</b><br/><b>ISSUES ENCOUNTERED RE PROJECT DEVELOPMENT</b></p> <p><b>-FORESHORE LEASE AGREEMENT:</b> The city released an ordinance last 2012 prohibiting construction work of any kind in foreshore areas, but we were able to secure an exemption and the local DENR office has already accepted our application and no under process;</p> <p><b>-NCIP CERTIFICATE OF NON-COVERAGE:</b> Documents were lost between the provincial and regional offices and changes on the officer-in-charge;<br/>-Excess of power supply.</p> |
| Indicative             | SMC Malita Coal Power Project Phase II  | San Miguel Consolidated Power Corporation   | Brgy. Culaman, Malita, Davao Occidental      | 300                 | <p><b>FEASIBILITY STUDY:</b><br/>-Completed;</p> <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b><br/>-Land acquisition completed;</p> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>-On-going processing of ECC requirements;<br/>-On-going securing of permits and other regulatory requirements;</p> <p><b>FINANCING ARRANGEMENTS:</b><br/>-On-going negotiations for financing arrangements;</p>  |
| Indicative             | SMC Global Power Coal-Fired Power Plant | SMC Global Power  | Brgy. Darong, Santa Cruz, Davao del Sur      | 328                 | <p><b>FEASIBILITY STUDY</b><br/>Pre-Engineering activities in progress</p> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>* Issued with GIS on 8 June 2016 (DOE-EPIMB-SIS No. 2016-05-006)<br/>Units ( 4 x 82 MW)</p>   |
|                        | NATURAL GAS                             |   |  | 0                   |   |

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|                        | <b>OIL-BASED</b>                        |                                     |                              |                     |  |
| Indicative             | TPI Diesel Power Plant                  | Total Power Incorporated            | Mati, Davao Oriental         | 5.883               | <p><b>FEASIBILITY STUDY:</b><br/>-Completed;</p> <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b><br/>-On-going;</p> <p><b>MARKETING OF GENERATING CAPACITIES:</b><br/>-On-going negotiations; Davao Oriental Electric Cooperative, Inc. (SMW)</p> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>-On-going;</p>  |
|                        | <b>GEOHERMAL</b>                        |                                     |                              |                     |  |
| Indicative             | EDC Mindanao 3 Geothermal Power Project | Energy Development Corporation      | Kidapawan, North Cotabato    | 30                  | <p><b>FEASIBILITY STUDY:</b><br/>-On-going Feasibility Study; Resource assessment and studies in optimal power plant capacity;</p> <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b><br/>-The project is within the DOE Service Contract -GRES# 009-10-004;</p> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>-DENR ECC obtained; Land use permits obtained;<br/>-LGU Endorsement on-going; Water right secured;<br/>-On-going preparation of DENR requirements for TL FLAg;<br/>-Water rights secured;<br/>-Turnkey Contracts pending result of feasibility study;<br/>-Clearance to Undertake GIS from DOE issued on 7 June 2012;</p> <p><b>FINANCING ARRANGEMENTS:</b><br/>-On-going sourcing of financing the project;</p> <p><b>PROJECT COST:</b><br/>-Project cost is subject to the result of the feasibility study;</p> |
|                        | <b>HYDROPOWER</b>                       |                                     |                              |                     |  |
| Committed              | Lake Mainit                             | Agusan Power Corporation            | Jabonga, Agusan del Norte    | 25                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>-Clearance to Undertake GIS from DOE issued on 7 October 2012; Submission of lacking requirements e.g. permits in progress.</p> <p><b>FINANCING ARRANGEMENTS:</b><br/>-Financial Arrangement Secured;<br/>-FIT</p> <p><b>COMMENCEMENT OF CONSTRUCTION:</b><br/>-On-going construction;</p>  |
| Indicative             | Bubunawan Hydroelectric Power Project   | First Gen Mindanao Hydropower Corp. | Baungon and Libona, Bukidnon | 23                  | <p><b>FEASIBILITY STUDY:</b><br/>-Submitted Feasibility Study and 5-Yr Work Plan;</p> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>-Issued Confirmation of Commerciality on 02 July 2013;<br/>-Already secured LGU Endorsements, DENR Environment Compliance Certificate , NCIP Certificate and NWRB Permit;<br/>-Clearance to Undertake GIS from DOE issued on 28 September 2012;<br/>-Bids and tendering for the EPC started on April 2014;</p> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b><br/>-On-going Pre-construction activities;</p>  |

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| Indicative             | Pulanai                                  | Repower Energy Development                       | Valencia, Bukidnon             | 10.6                | CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:<br>-Pending submission of requirements for construction;  |
| Indicative             | Tagum                                    | Sta. Clara Power Corp.                           | Maco, Compostela Valley        | 2.60                | Issued Confirmation of Commercialization on 01 December 2016. Ongoing pre-construction activities.   |
| Indicative             | Tagoloan                                 | First Gen Mindanao Hydropower Corp.              | Impasugong & Sumilao, Bukidnon | 39                  | PERMITS AND OTHER REGULATORY REQUIREMENTS:<br>-Issued Confirmation of Commerciality on 02 July 2013;<br>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:<br>-Pending submission of requirements for construction   |
| Indicative             | Culaman Hydroelectric Power Project      | Oriental Energy and Power Generation Corporation | Manolo Fortich, Bukidnon       | 10                  | PERMITS AND OTHER REGULATORY REQUIREMENTS:<br>-Issued Confirmation of Commerciality on 03 June 2013;<br>-Clearance to Undertake GIS from DOE issued on 5 October 2012;<br>-Submission of lacking requirements e.g. permits in progress;<br><br>COMMENCEMENT OF CONSTRUCTION:<br>-On-going Pre-construction activities; |
| Indicative             | Katipunan River Mini Hydro Power Project | Repower Energy Development                       | Cabanglasan, Bukidnon          | 6.2                 | PERMITS AND OTHER REGULATORY REQUIREMENTS:<br>-Issued with System Impact Study on 7 November 2016 (DOE-EPIMB-SIS No. 2016-10-005);   |

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| Indicative             | Cabadbaran Hydroelectric Power Project        | First Gen Mindanao Hydropower Corp.        | Cabadbaran, Agusan del Norte | 9.75                | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/> - Issued Confirmation of Commerciality on 02 July 2013;<br/> - Already secured LGU Endorsements, DENR Environment Compliance Certificate, NCIP Certificate of Non-Coverage, NCIP Certificate and NWRB Permit - Submission of lacking requirements e.g. permits in progress;</p> <p>COMMENCEMENT OF CONSTRUCTION:<br/> - On-going Pre-construction activities;</p> |
| Indicative             | Lower Maladugao River Mini-Hydropower Project | Bukidnon Maladugao Hydro Power Corporation | Kalilangan and Wao, Bukidnon | 15.7                | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/> • Issued with GIS on 30 May 2016 (DOE-EPIMB-SIS No. 2016-08-002)</p>  |

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|------------------------|---|---|----------------------------|---------------------|--|
| Indicative             | Maladugao (Upper Cascade) Hydroelectric Power Project | UHPC Bukidnon Hydro Power I Corporation | Kallangan, Bukidnon        | 8.4                 | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:</p> <ul style="list-style-type: none"> <li>• Issued with GIS on 30 May 2016 (DOE-EPIMB-SIS No. 2016-08-003)</li> </ul>   |
| Indicative             | Sawaga River Mini Hydro Power Project                 | Repower Energy Development              | Malaybalay, Bukidnon       | 4.5                 | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:</p> <ul style="list-style-type: none"> <li>-Issued with System Impact Study on 7 November 2016 (DOE-EPIMB-SIS No. 2016-10-005);</li> </ul>   |
| Indicative             | Liangon Hydropower Project                            | Liangon Power Corp.                     | Bacolod, Lanao del Norte   | 11.9                | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:</p> <ul style="list-style-type: none"> <li>• Issued with GIS on 30 January 2018 (DOE-EPIMB-SIS No. 2018-01-005)</li> </ul>   |
| Indicative             | Malitbog  | Philnewriver Power Corp.                | Malitbog, Bukidnon         | 3.4                 | <p>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</p> <ul style="list-style-type: none"> <li>-Pending submission of requirements for construction;</li> </ul>  |
| Indicative             | Clarín  | Philnew Hydro Power Corporation         | Clarín, Misamis Occidental | 5                   | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:</p> <ul style="list-style-type: none"> <li>-Issued Confirmation of Commerciality on 09 April 2014;</li> <li>-Submission of lacking requirements e.g. permits in progress;</li> </ul> <p>COMMENCEMENT OF CONSTRUCTION:</p> <ul style="list-style-type: none"> <li>-On-going Pre-construction activities;</li> </ul> |

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| Indicative             | Mat-i-I             | Philnew Hydro Power Corporation | Claveria, Cagayan de Oro                         | 4.85                | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/> -Issued Confirmation of Commerciality on 09 April 2014;<br/> -Submission of lacking requirements e.g. permits in progress;</p> <p>COMMENCEMENT OF CONSTRUCTION:<br/> -On-going Pre-construction activities;</p> |
| Indicative             | Silo-o              | Philnewriver Power Corp.        | Malitbog, Bukidnon                               | 3.29                | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/> -Issued Confirmation of Commerciality on 5 June 2015;<br/> -On going permitting;</p> <p>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:<br/> -Pending submission of requirements for construction;</p>         |
| Indicative             | Agus III            | Maranao Energy Corporation      | Pantar & Balo-I, Lanao del Sur & Lanao del Norte | 225                 | <p>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:<br/> -Pending submission of requirements for construction;</p>   |

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| Indicative             | Kitaotao 1  | Hedcor Bukidnon, Inc.                            | Bukidnon                 | 70                  | <p><b>FEASIBILITY STUDY:</b><br/>-On going</p> <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b><br/>-Covered by Solar Energy Services (HSC No. 2015-05-569);<br/>-On-going study to determine the final scheme for development and final capacity of the project;</p> <p><b>FINANCING ARRANGEMENT:</b><br/>-Parent Company will undertake to provide financial support;</p> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>-Permits on process for Project Site and on-going IEC;<br/>-With renewable energy service contract,<br/>-With on-going application for HSC amendment: Increase capacity from 35 MW to 70 MW.</p> <p><b>MARKETING OF CAPACITIES:</b><br/>-To be determined;</p> <p><b>CONSTRUCTION OF FACILITY:</b><br/>-To be undertaken after acquisition of permits</p> |
| Indicative             | 10 MW Cabulig-2 Hydroelectric Power Plant Project                           | Mindanao Energy Systems, Inc.                    | Jasaan, Misamis Oriental | 10                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>-On-going permits and other regulatory requirements completion</p>   |
| Indicative             | Davao Hydroelectric Power Project   | San Lorenzo Ruiz Olympia                         | Davao City               | 140                 | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>• Issued with GIS on 6 October 2016 (DOE-EPIMB-SIS No. 2016-09-003)</p>  |
| Indicative             | South Pulangi Hydroelectric Power Project                                   | Pulangi Hydro Power Corporation                  | Damulos, Bukidnon        | 250                 | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>• Issued with GIS on 13 September 2018 (DOE-EPIMB-RE-SIS No. 2018-09-002)</p>  |
|                        | <b>BIOMASS</b>  |  |                          | <b>119.4</b>        |   |
| Indicative             | Biomass Power Plant Project   | Surallah Power Generation Inc.                   | Surallah, South Cotabato | 6                   | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b> Ongoing applications of requirements;</p> <p><b>COMMENCEMENT OF CONSTRUCTION:</b> For construction</p>   |
| Indicative             | 10MW Malay-balay Bio-Energy Corporation Multi Feedstock Generating Facility | Malaybalay Bio-Energy Corporation                | Bukidnon                 | 10                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>-Secured Clearance from DOE for the conduct of GIS on 28 February 2014;</p> <p><b>FINANCING ARRANGEMENTS:</b><br/>-Financial Arrangement Secured;</p> <p><b>COMMENCEMENT OF CONSTRUCTION:</b><br/>-Operating for Own-Use;<br/>-On-going construction;</p>  |
| Indicative             | NAREDCO Biogas Power Plant  | Natures Renewable Energy Development Corporation | Lal-Lo, Cagayan          | 24                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>• Issued with GIS on 25 November 2016 (DOE-EPIMB-SIS No. 2016-10-003)</p>  |
| Indicative             | Napier Grass-Fired Biomass Power Plant Project                              | Pilipinas Joule Energy Corporation               | Bukidnon                 | 5                   | <p><b>COMMENCEMENT OF CONSTRUCTION:</b><br/>-For construction;</p>  |
| Indicative             | Biogas Power Plant Project  | Natures Renewable Energy Development Corporation | Maasim, Sarangani        | 24                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b> Ongoing applications of requirements;</p> <p><b>COMMENCEMENT OF CONSTRUCTION:</b> For construction</p>   |
| Indicative             | 23.5 MW Woody Biomass Power Plant Project                                   | CARAGA Renewable Energy Corporation              | Agusan del Norte         | 23.5                | <p><b>FINANCING ARRANGEMENTS:</b><br/>-Financial Arrangement Secured;</p> <p><b>COMMENCEMENT OF CONSTRUCTION:</b><br/>-For construction;</p>  |

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| Indicative             | 12 MW Napier Grass-Fired Biomass Power Plant Project | Manolo Fortich Biomass Energy Corporation | Bukidnon          | 12                  | <p><b>FINANCING ARRANGEMENTS:</b><br/>-Financial Arrangement Secured;</p> <p><b>COMMENCEMENT OF CONSTRUCTION:</b><br/>-For construction,</p> |
| Indicative             | Bagasse-Fired Co-generation Power Plant              | Crystal Sugar, Inc.                       | Maramag, Bukidnon | 14.9                | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>• Issued with GIS on 13 October 2016 (DOE-EPIMB-SIS No. 2016-10-003)</p>            |



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|                        | SOLAR                          |  |   | 809.96              |  |
| Indicative             | Liberty Solar Project          | Astronergy Development Dipolog Inc.      | La Libertad, Zamboanga del Sur              | 7                   | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>• Pending ERC Provisional Authority</li> </ul>   |
| Indicative             | Greenlight Solar Power Project | Greenlight Solar Farm Tapian Corporation | Datu Odin, Sinsuat, Maguindanao             | 50                  | <p><b>FEASIBILITY STUDY:</b><br/>In progress; SIS Preparation Complete and Pending Final Approval with NGCP, with GSFTC Conformity.</p> <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b><br/>-Lease Contract Executed on 23 March 2018;</p> <p><b>MARKETING OF GENERATING CAPACITIES:</b><br/>-Offtaker Under Negotiation with Several Interested Parties.</p> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b><br/>-In progress; Municipal Council Public Consultatin Scheduled and Sec for hearing.</p> <p><b>ESTIMATED NUMBER OF JOBS GENERATED:</b></p> <ul style="list-style-type: none"> <li>•During Construction: 40</li> <li>•During Operation: 10</li> </ul> <p><b>GROUND BREAKING SCHEDULES:</b></p> <ul style="list-style-type: none"> <li>•Q1 2020</li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p>   |
| Indicative             | Sarangani Solar PV Power Plant | Total Power Incorporated                 | Alabel, Sarangani                           | 100                 | <p><b>FEASIBILITY STUDY:</b><br/>In progress;</p> <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b><br/>-On going</p> <p><b>MARKETING OF GENERATING CAPACITIES:</b><br/>-Under negotiation with Electric Cooperatives</p> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>• Issued with SIS on 18 October 2018 (DOE-EPIMB-SIS No. 2018-10-004)</li> </ul> <p><b>GROUND BREAKING SCHEDULES:</b></p> <ul style="list-style-type: none"> <li>-Target date of groundbreaking June 2019</li> </ul> <p><b>COMMENCEMENT OF CONSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>-Target date of Commencement of Construction July 2019</li> </ul>   |
| Indicative             | Banale Solar Power Project     | Astronergy Development Pagadian, Inc.    | Brgy. Banale, Pagadian, Zamboanga del Norte | 13                  | <p><b>FEASIBILITY STUDY:</b></p> <ul style="list-style-type: none"> <li>• Ongoing conduct of Distribution Impact Study. Refer to February 2019 report for proof of conduct of DIS.</li> </ul> <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b></p> <ul style="list-style-type: none"> <li>• Ongoing transfer of Title for the Access Road.</li> </ul> <p><b>MARKETING OF GENERATING CAPACITIES:</b></p> <ul style="list-style-type: none"> <li>• Entered into bilateral contract with Zamboanga del Sur I Electric Cooperative Inc. signed on July 2019- please refer to rprogress report submitted on February 19, 2019.</li> </ul> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>• Pending Permits: Energy Regulatory Commission Provisional Authority.</li> </ul> <p><b>GROUND BREAKING SCHEDULES:</b></p> <ul style="list-style-type: none"> <li>1st Quarter of year 2020</li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>• Pending loan application due to absence of ERC Provisional authority.</li> </ul> <p><b>CONSTRUCTION CONTRACTS FOR PLANTS AND EQUIPMENT:</b></p> <ul style="list-style-type: none"> <li>• On going request for EPC turnkey proposal- refer to progress report submitted last February 2019.</li> </ul> |

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| Indicative             | Conel Solar Power Project   | Embrace Nature Power 1 Corporation | General Santos City, South Cotabato | 16                  | <p>ARRANGEMENT FOR SECURING THE REQUIRED LAND:<br/> -Executed conditional Sales Agreement. Paid 5% Earnest Monies for the 72 hectares Barangay Mabuhay and 30 hectares for Barangay Conel respectively;</p> <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/> -Submitted accomplished required six (6) months work program dated 7 March 2018;</p> <p>MARKETING OF GENERATING CAPACITIES:<br/> -On-going negotiation;</p> |
| Indicative             | Mabuhay Solar Power Project | Embrace Nature Power 1 Corporation | General Santos City, South Cotabato | 44                  | <p>ARRANGEMENT FOR SECURING THE REQUIRED LAND:<br/> -Executed conditional Sales Agreement. Paid 5% Earnest Monies for the 72 hectares Barangay Mabuhay and 30 hectares for Barangay Conel respectively;</p> <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/> -Submitted accomplished required six (6) months work program dated 7 March 2018;</p> <p>MARKETING OF GENERATING CAPACITIES:<br/> -On-going negotiation;</p> |
| Indicative             | Sumilao Solar Power Project | Sunasia Energy, Inc.               | San Vicente, Sumilao, Bukidnon      | 2                   | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/> • Issued with GIS on 7 June 2016 (DOE-EPIMB-SIS No. 2016-05-008)</p>  |

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| Indicative             | GenSan Solar Power Project Phase I            | Del Sol Energy CGS, Inc.                               | Brgy. Conel, General Santos City, South Cotabato  | 48                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Awarded with RE Service Contract (SESC No. 2015-02-106) on 28 Jan 2015</li> <li>Certificate of Commerciality No. SCC-2015-09-024 dated 22 Sep 2015 <ul style="list-style-type: none"> <li>For issuance of show-cause letter</li> </ul> </li> </ul>  |
| Indicative             | GenSan Solar Power Project Phase II           | Del Sol Energy CGS, Inc.                               | Brgy. Tاملer, General Santos City, South Cotabato | 48                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Awarded with RE Service Contract (SESC No. 2015-02-106) on 28 Jan 2015</li> <li>Certificate of Commerciality No. SCC-2015-09-024 dated 22 Sep 2015 <ul style="list-style-type: none"> <li>For issuance of show-cause letter</li> </ul> </li> </ul>  |
| Indicative             | 60 MW General Santos City Solar Power Project | Astroenergy Gensan Inc.                                | General Santos City, South Cotabato               | 60                  | <p>Feasibility Studies, Permits and Other Regulatory Requirements</p> <ul style="list-style-type: none"> <li>Issued with GIS on 23 Nov 2015, GIS #2015-11-001</li> </ul>  |
| Indicative             | San Francisco Solar Power Project             | Gpower Inc.  | San Francisco, Agusan del Sur                     | 10                  | <p><b>ARRANGEMENT FOR SECURING THE REQUIRED LAND:</b></p> <ul style="list-style-type: none"> <li>Covered by Solar Energy Services (SESC No. 2015-09-252) on 29 December 2015;</li> <li>To be located from the existing primary transmission line of the local distribution utility, the ASELCO and 6 KM from the San Francisco substation and ASELCO main office;</li> <li>Currently completing documentation for selected location for the project;</li> </ul> <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Requested DOE Endorsement to NCIP for Certificate of Non-Overlap on 29 January 2016;</li> <li>ECC approved on March 2016</li> <li>Issued with GIS on 4 April 2016 (DOE-EPIMB-SIS No. 2016-04-006)</li> </ul> <p><b>MARKETING OF GENERATING CAPACITIES:</b></p> <ul style="list-style-type: none"> <li>On-going negotiation for Bilateral Contract Arrangement with ASELCO through CSP;</li> </ul> <p><b>FINANCING ARRANGEMENTS:</b></p> <ul style="list-style-type: none"> <li>On-going finalization for financing arrangements;</li> </ul> <p><b>PROJECT COST INCLUDING PRE-OPERATING EXPENSES:</b></p> <ul style="list-style-type: none"> <li>PhP641 Million or \$14.2 Million</li> </ul> |
| Indicative             | Jasaan Solar Power Project                    | Lohas and Soul Lighting, Inc.                          | Jasaan, Misamis Oriental                          | 60                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Issued with GIS on 11 May 2016 (DOE-EPIMB-SIS No. 2016-04-001)</li> </ul>   |
| Indicative             | Lal-Lo Solar PV Power Plant                   | Natures Renewable Energy & Development (NAREDCO) Corp. | Maasim, Sarangani                                 | 100                 | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Issued with SIS on 09 January 2017 (DOE-EPIMB-SIS No. 2017-01-001)</li> </ul>   |
| Indicative             | Solar Power Plant                             | Ecoglobal, Inc   | Zamboanga City Special Economic Zone              | 30                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Issued with SIS on 21 April 2017 (DOE-EPIMB-SIS No. 2017-03-002)</li> </ul>   |
| Indicative             | Hayes Solar Power Project                     | Hayes Solar Energy Corporation                         | Villanueva, Misamis Oriental                      | 27                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>Issued with SIS on 10 May 2017 (DOE-EPIMB-SIS No. 2017-05-004)</li> </ul>   |

PRIVATE SECTOR INITIATED POWER PROJECTS (MINDANAO)

INDICATIVE

As of 31 December 2019

| Committed / Indicative | Name of the Project              | Project Proponent  | Location                            | Rated Capacity (MW) | Project Status   |
|------------------------|----------------------------------|--|-------------------------------------|---------------------|--|
| Indicative             | Opol Solar Power Project         | Electra Ecoenergy Corporation  | Brgy. Patag, Opol, Misamis Oriental | 25                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>• Issued with SIS on 1 August 2017 (DOE-EPIMB-SIS No. 2017-06-001)</li> </ul>  |
| Indicative             | Tantangan Solar Power Project    | NVPSE Five Inc.  | Tantangan, South Cotabato           | 65                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>• Issued with SIS on 1 June 2018 (DOE-EPIMB-SIS No.2018-05-002)</li> </ul>   |
| Indicative             | Laguindingan Solar Power Project | Liberty Solar Energy Corporation (formerly Cagayan Electric Power & Light Company, Inc.) | Laguindingan, Misamis Oriental      | 20                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>• Awarded with RE Service Contract (SESC No. 2014-05-079) on 10 Jun 2014</li> <li>• With DOC under evaluation of REMB / C-REC</li> </ul> |
| Indicative             | Claveria Solar Power Project     | The Ark Green Dynamic Resources Corp.  | Claveria, Misamis Oriental          | 60                  | <p><b>PERMITS AND OTHER REGULATORY REQUIREMENTS:</b></p> <ul style="list-style-type: none"> <li>• Awarded with RE Service Contract (SESC No. 2014-12-094) on 22 Dec 2014</li> <li>• With DOC under evaluation of REMB / C-REC</li> </ul> |

PRIVATE SECTOR INITIATED POWER PROJECTS (MINDANAO)  
INDICATIVE  
As of 31 December 2019

| Committed / Indicative | Name of the Project                | Project Proponent                   | Location                      | Rated Capacity (MW) | Project Status  |
|------------------------|------------------------------------|-------------------------------------|-------------------------------|---------------------|---|
| Indicative             | South Cotabato Solar Power Project | Astronergy Development Gensan, Inc. | Lanao del Norte/Lanao del Sur | 24.96               | PERMITS AND OTHER REGULATORY REQUIREMENTS:<br>• Issued with SIS on 15 August 2018 (DOE-EPIMB-SIS No. 2018-08-002) |
|                        | WIND                               |                                     |                               | 0                   |   |

**Total Indicative Rated Capacity 2,771.4**

|            |  |  |  |     |   |
|------------|--|--|--|-----|---|
|            | BESS   |  |  | 410 |   |
| Indicative | Surigao / Butuan Battery Energy Storage                  | Limay Power Generation Corporation (formerly: SMCGP Philippines Energy Storage Co. Ltd.) | Surigao / Butuan   | 20  | PERMITS AND OTHER REGULATORY REQUIREMENTS:<br>• Issued with SIS on 13 June 2019 (DOE-EPIMB-SIS NO. 2019-06-001) |
| Indicative | Zamboanga Battery Energy Storage                         | Limay Power Generation Corporation (formerly: SMCGP Philippines Energy Storage Co. Ltd.) | Zamboanga  | 200 | PERMITS AND OTHER REGULATORY REQUIREMENTS:<br>• Issued with SIS on 13 June 2019 (DOE-EPIMB-SIS NO. 2019-06-001) |
| Indicative | 3 x 20 Pitogo Battery Energy Storage Solution            | Hill Trench Power Inc.   | Brgy. Sinunuc, Pitogo, Zamboanga City, Zamboanga del Sur | 60  | PERMITS AND OTHER REGULATORY REQUIREMENTS:<br>• Issued with SIS on 28 May 2019 (DOE-EPIMB-SIS NO 2019-05-001)   |
| Indicative | 2 x 20 Sangali Battery Energy Storage Solution           | Hill Trench Power Inc.   | Sangali, Zamboanga City, Zamboanga del Sur               | 40  | PERMITS AND OTHER REGULATORY REQUIREMENTS:<br>• Issued with SIS on 28 May 2019 (DOE-EPIMB-SIS NO 2019-05-001)   |
| Indicative | 2 x 20 Aurora (Pagadian) Battery Energy Storage Solution | Hill Trench Power Inc.   | Aurora, Zamboanga del Norte                              | 40  | PERMITS AND OTHER REGULATORY REQUIREMENTS:<br>• Issued with SIS on 28 May 2019 (DOE-EPIMB-SIS NO 2019-05-001)   |
| Indicative | Kibawe Energy Storage Project                            | Horus Solar Energy Corp.   | Kibawe, Bukidnon   | 50  | PERMITS AND OTHER REGULATORY REQUIREMENTS:<br>• Issued with SIS on 20 June 2019 (DOE-EPIMB-SIS NO. 2019-06-008) |

**SUMMARY - INDICATIVE PROJECTS (MINDANAO)**

|                  |                |         |
|------------------|----------------|---------|
|                  | MW             | % Share |
| COAL             | 928.0          | 33.5%   |
| OIL-BASED        | 5.9            | 0.2%    |
| NATURAL GAS      | 0.0            | 0.0%    |
| RENEWABLE ENERGY | 1,837.6        | 66.3%   |
| GEOTHERMAL       | 30.0           | 1.1%    |
| HYDROPOWER       | 878.2          | 31.7%   |
| BIOMASS          | 119.4          | 4.3%    |
| SOLAR            | 810.0          | 29.2%   |
| WIND             | 0.0            | 0.0%    |
| <b>TOTAL</b>     | <b>2,771.4</b> |         |
| *BESS            | 410.0          |         |
|                  | TRUE           |         |

|            |   |                                    |          |      |  |
|------------|---|------------------------------------|----------|------|--|
| Indicative | 10MW Kallilangan Bio-Energy Corporation Multi-Feedstock Power Generating Facility | Kallilangan Bio-Energy Corporation | Bukidnon | 9.00 | PERMITS AND OTHER REGULATORY REQUIREMENTS: Clearance to Undertake GIS from DOE issued on 28 January 2014;<br>COMMENCEMENT OF CONSTRUCTION: For construction; |
|------------|---|------------------------------------|----------|------|--|

PRIVATE SECTOR INITIATED POWER PROJECTS (MINDANAO)  
INDICATIVE  
As of 31 December 2019

| Committed / Indicative | Name of the Project  | Project Proponent   | Location                                     | Rated Capacity (MW) | Project Status  |
|------------------------|--|---|--|---------------------|---|
| Indicative             | 10MW Don Carlos Bio-Energy Corporation Multi-Feedstock Power Generating Facility | Don Carlos Bio-Energy Corporations  | Bukidnon                                     | 9.00                | COMMENCEMENT OF CONSTRUCTION: For construction;   |
| Indicative             | 12 MW Biomass Power Plant Project  | Misamis Oriental Bio-Energy Corporations  | Misamis Oriental                             | 10.80               | MARKETING OF GENERATING CAPACITIES: Clearance to Undertake GIS from DOE issued on 6 June 2014;<br>COMMENCEMENT OF CONSTRUCTION: For construction;   |
| Indicative             | Ozamis Coal Fired Power Plant Phase 1 - 1 x 150 MW<br>Phase 2 - 1 x 150 MW       | Ozamis Power Generation, Inc. (wholly owned subsidiary of Avesco Marketing Corporation) | Brgy. Pulot, Ozamis City, Misamis Occidental | 300                 | <p>FEASIBILITY STUDY:<br/>Final copy submitted last 15 July 2015;</p> <p>ARRANGEMENT FOR SECURING THE REQUIRED LAND:<br/>-Land acquisition is 98% complete; 2% still on-going negotiation of which are in the final process of negotiation.<br/>-Conversion of land from Agricultural to Industrial on-going with the release of CENRO (reclassification from CENRO city zoning).<br/>-Permits and other regulatory requirements (arrange based on the sequence of date released)</p> <p>MARKETING OF GENERATING CAPACITIES:<br/>-Still in the process of marketing the electricity to the different cooperatives.</p> <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/>-Brgy. Pulot Endorsement released last March 7, 2014;<br/>-Ozamis City Endorsement released last March 11, 2014;<br/>-Certificate of Endorsement (CoE) released on June 4, 2015;<br/>-Environmental Clearance Certificate released on 15 October 2015 (ECC-CO-1502-0002);<br/>-Approved Grid/System Impact Study released on 7 January 2016;<br/>-Certificate of Endorsement to BOI released last February 5, 2016;<br/>-Certificate of Non-overlap from NCIP was released February 1, 2017;<br/>-Certificate of Non-coverage from NCIP was released February 1, 2017;<br/>-New CAAP Certificate of Height Clearance released last January 5, 2018;<br/>-Facilities Study for the inter-connection service agreement contract with NGCP (pre-requisite);<br/>-Applications for Board of Investment, bureau of Customs, Foreshore Lease Agreement, Tree Cutting Permit, PAA Clearance to Develop private Port Facility, Local Government Permits, transmission Service Agreement with NGCP, NWRB Water Permit Application (Business Permit, Fencing Permit, Zoning Permit) all on-going.</p> <p>ESTIMATED NUMBER OF JOBS GENERATED:<br/><del>During Construction: Direct (peak) 3600, 4700 Indirect 2500-3000</del></p> <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/>-Clearance to Undertake GIS (2015-09-005) from DOE released on 4 February 2016;</p> <p>COMMENCEMENT OF CONSTRUCTION:<br/>-For construction;</p> |
| Indicative             | Bislig 1 Oxyfuel-Gas Fired Power Plant Project                                   | CENERTEC Philippines, Inc.  | Brgy. Kahayag, Bislig City Surigao del Sur   | 1                   | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/>-Clearance to Undertake GIS (2015-09-005) from DOE released on 4 February 2016;</p> <p>COMMENCEMENT OF CONSTRUCTION:<br/>-For construction;</p>   |
| Indicative             | Bislig 2 Oxyfuel-Gas Fired Power Plant Project                                   | CENERTEC Philippines, Inc.  | Brgy. Kahayag, Bislig City Surigao del Sur   | 4                   | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/>-Clearance to Undertake GIS (2015-09-006) from DOE released on 4 February 2016;</p> <p>COMMENCEMENT OF CONSTRUCTION:<br/>-For construction;</p>   |
| Indicative             | Sibuguey Power Plant Project   | Philippine National Oil Company (PNOC-EC)   | Sibugay, Zamboanga                           | 100                 | <p>FEASIBILITY STUDY:<br/>-Technical and economic feasibility study was completed in July 2011;</p> <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/>-Eligible bidder for Transaction Advisor on 8 August 2012;<br/>-On-going bid processing for the EIS consultancy leading to ECC application and other permits;<br/>-Processing of ECC requirements;<br/>-Clearance to Undertake GIS from DOE issued on 14 October 2011;</p> <p>FINANCING ARRANGEMENTS:<br/>-On-going negotiations for financing arrangements;</p>  |
| Indicative             | Tagum Solar Power Project  | Solar Pacific Citysun Corporation   | Tagum City, Davao del Norte                  | 1                   | <p>PERMITS AND OTHER REGULATORY REQUIREMENTS:<br/>• Awarded with RE Service Contract (SESC No. 2016-06-316) on 01 Dec 2016<br/>• With DOC under evaluation of REMB / C-REC</p>  |

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| TBD                            | 2023                        |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
|                                |                             |

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| June 2020                      | December 2020               |
| November 2021                  | December 2021               |
| November 2020                  | December 2020               |
| November 2021                  | December 2021               |



| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| November 2022                  | December 2022               |
| November 2024                  | December 2024               |
| November 2025                  | December 2025               |
| November 2025                  | December 2025               |
| November 2025                  | December 2025               |

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| November 2025                  | December 2025               |
| November 2025                  | December 2025               |

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| November 2026                  | December 2026               |
| November 2026                  | December 2026               |
| November 2026                  | December 2026               |
| TBD                            | TBD                         |
| TBD                            | TBD                         |

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
|                                |                             |
| November 2019                  | Q1 2020                     |
| November 2020                  | December 2020               |
| November 2020                  | December 2020               |
| November 2020                  | December 2020               |
| November 2020                  | December 2020               |
| 2022                           | 2022                        |

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| November 2020                  | TBD                         |
| TBD                            | TBD                         |

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| June 2020                      | December 2020               |
| Q3 2020                        | Q4 2020                     |
| September 2020                 | December 2020               |
| December 2020                  | December 2020               |

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| March 2021                     | June 2021                   |
| March 2021                     | June 2021                   |
| November 2019                  | TBD                         |



| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| TBD                            | TBD                         |
|                                |                             |

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|     |                                      |
|-----|--------------------------------------|
|     |                                      |
| TBD | TBD                                  |
| TBD | TBD                                  |
| TBD | 12 months after completion of SIS/FS |
| TBD | 12 months after completion of SIS/FS |
| TBD | 12 months after completion of SIS/FS |
| TBD | TBD                                  |

|             |             |
|-------------|-------------|
| August 2016 | August 2016 |
|-------------|-------------|

| Target Testing & Commissioning | Target Commercial Operation |
|--------------------------------|-----------------------------|
| August 2016                    | August 2016                 |
| October 2017                   | October 2017                |
| July 2022                      | January 2023                |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| TBD                            | TBD                         |
| November 2018                  | December 2018               |