

## PRIVATE SECTOR INITIATED POWER PROJECTS (VISAYAS)

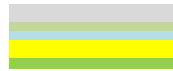
## COMMITTED

As of 31 December 2016

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Testing & Commissioning	Target Commercial Operation
	<b>COAL</b>			<b>135</b>			
Committed	Palm Concepcion Coal-Fired Power Plant	Palm Concepcion Power Corp. (Formerly DMCI Concepcion Power Corp.)	Brgy. Nipa, Concepcion, Iloilo	135	<p><b>Feasibility Studies, Permits and Other Regulatory Requirements</b></p> <ul style="list-style-type: none"> <li>-Feasibility Study completed - March 2006</li> <li>-Environmental Impact Statement – June 2006</li> <li>-Hydrology and Flood Release Analyses and Geotechnical Earthquake Risk Analysis – Jun 2011</li> <li>-Geotechnical Foundation &amp; Engineering Geological Investigations – Jun 2011</li> <li>-Geotechnical Foundation and Geohazards Risk Investigations – Aug 2011</li> <li>-Market Study of the Power Requirements in the Visayas</li> <li>-Final SIS Report from NGCP received on July 17, 2012</li> <li>-More confirmatory studies done</li> </ul> <p>-DAR Conversion Order-Sept 2008; SEC-22 Nov 2010; DENR Final SIS Report-approved by NGCP on 17 July 2012 BOI-amended 02 Oct 2012; Connection Agreement with NGCP-01 Oct 2012; ECC-03 June 2013; NCIP- issued by DOE on 03 June 2014 for Unit 1; Appraisal Report for the PPA/MLA from the DENR Regional Director-Oct 2014; Endorsements from LGUs and local permits secured; Necessary land requirements secured</p> <p><b>Financial Arrangements</b></p> <ul style="list-style-type: none"> <li>-24 July 2013-Financial Closure Secured</li> <li>-Project cost is Php26.356B</li> </ul> <p><b>Construction Contracts for Plant and Equipment</b></p> <ul style="list-style-type: none"> <li>-Signed and awarded various contracts</li> </ul>	Unit II - March 2018 (will still be firm up)	Unit II - December 2018
	<b>OIL</b>			<b>8</b>			
Committed	Calumangan Diesel Power Plant	Energreen Power Development & Management, Inc.	Brgy. Calumangan, Bago City, Negros Occidental	8	<p><b>Feasibility Studies, Permits and Other Regulatory Requirements</b></p> <ul style="list-style-type: none"> <li>-Feasibility Study-completed</li> <li>-Environmental Impact Assessment Study-Sept 2012</li> <li>-DOE: w/ MOA and COE - 100%</li> <li>-ERC: Approval of Supply Agreement - Provisional Approval dated 10 Nov 2014 - 100%; COC - 95%; Occular inspection conducted on Feb 3-5, 2016; Authority to develop and own or operate dedicated point-to-point limited transmission facilities - 100%; Approved by ERC on Oct. 29, 2015</li> <li>-Brgy. Calumangan Endorsement -01 September 2012</li> <li>-DENR: ECC - 21 Nov 2013; PTO - 100%; Provisional PTO pending conduct of emission test</li> <li>-PEMC: Application for WESM Direct Membership - 29 Jan 2015; required submission of various documents mostly from NGCP and some for ERC - 100%</li> <li>-NGCP issued Certificates of Approval to Connect (40MVA Substation-13 Nov 2015; 100m Line-04 Nov 2015; Unit 2 5MW-22 Jan 2016); Connection, Transmission &amp; Metering Service Agreement - signed and transmitted back to NGCP10 Feb 2016 for signature</li> </ul> <p><b>Off-Takers</b></p> <ul style="list-style-type: none"> <li>-70% of dependable capacity contracted to CENECO</li> </ul> <p><b>Financial Arrangements</b></p> <ul style="list-style-type: none"> <li>Financially Closed</li> </ul> <p><b>Contracts for Plant and Equipment</b></p> <ul style="list-style-type: none"> <li>-100 % Secured</li> </ul> <p><b>Project Progress</b></p> <ul style="list-style-type: none"> <li>- Dec 2013-Commencement of Construction</li> </ul> <p><b>ISSUES ENCOUNTERED RE: PROJECT DEVELOPMENT</b></p> <ul style="list-style-type: none"> <li>-Adverse climatic conditions, transportation interruption or delays, port congestion, general shortage of materials that affected construction and transport of engines and equipment from port of origin to plant site in Bago City and the perplexing bureaucracy and processes that affected and delayed grid connectivity</li> </ul>	Unit 4 - January 2017	Unit 4 - January 2017 (Target Testing and Commissioning)
	<b>GEOHERMAL</b>			<b>50</b>			
Committed	Biliran Geothermal Plant Project	Biliran Geothermal Incorporated	Biliran, Biliran	50	<p><b>Feasibility Studies, Permits and Other Regulatory Requirements</b></p> <ul style="list-style-type: none"> <li>-Geothermal Service Contract from DOE-obtained</li> <li>-ECC-secured for the proposed Geothermal Exploration Drilling and Biliran Power Plant Project on December 06, 2012 and August 23, 2013, respectively.</li> <li>-Confirmation of Commerciality-obtained from DOE on 28 December 2014</li> </ul> <p><b>Financial Arrangements</b></p> <ul style="list-style-type: none"> <li>-Memorandum of Understanding by and among Envent Holdings Philippines, Inc. (EHPI) and Philippine Associated Smelting and Refining Corp. (PASAR) signed on May 10, 2013</li> </ul> <p><b>Project Cost</b></p> <ul style="list-style-type: none"> <li>US\$ 208.021 M</li> </ul>	January 2017	Phase 1 - Jan 2017 Phase 2 - Jan 2017 Phase 3 - July 2017 Phase 4 - Nov 2017
	<b>HYDROPOWER</b>			<b>13.1</b>			
Committed	Igbulo (Bais) Hydroelectric Power Project	Century Peak Energy Corporation	Igbaras, Iloilo	5.1	<p><b>Feasibility Studies, Permits and Other Regulatory Requirements</b></p> <ul style="list-style-type: none"> <li>- Confirmation of Commerciality-issued on 26 June 2013</li> <li>- GIS-issued by DOE on 14 August 2013</li> <li>- Ongoing submission of other reportorial requirements</li> </ul> <p><b>Project Progress</b></p> <ul style="list-style-type: none"> <li>-Ongoing Construction</li> </ul>	June 2018	June 2018 (Target Testing and Commissioning)

Committed	Cantakoy	Quadriver Energy Corp.	Danao, Bohol	8	<b>Feasibility Studies, Permits and Other Regulatory Requirements</b> -GIS-secured clearance from DOE on 11 July 2011  <b>Financial Arrangement</b> -Financial Arrangement Secured  <b>Project Progress</b> -Construction on-hold due to conflict with LGU	June 2018	June 2018 (Target Testing and Commissioning)
<b>SOLAR</b>				<b>65.67</b>			
Committed	Miag-ao Solar Power Project	COSMO Solar Energy, Inc.	Miag-ao, Iloilo	5.67	<b>Feasibility Studies, Permits and Other Regulatory Requirements</b> -Covered by Solar Energy Services (SESC No. 2013-09-036) on 31 October 2013 -Declaration of Commerciality- filed on 26 September 2014 -DOE Certificate of Commerciality- acquired on 12 January 2015  <b>Project Progress</b> -Pre-Construction-100% -Construction-100% -Interconnection-100%	June 2016 (Ongoing Testing and Commissioning)	January 2017
Indicative	First Toledo Solar Power Project	SunAsia Energy, Inc.	Toledo City, Cebu	60	<b>Project Progress</b> -Pre-construction 80 % -Construction 50 % -Interconnection 80 %  <b>Feasibility Studies, Permits and Other Regulatory Requirements</b> -RESC NO. 2015-05-230 awarded on 5/29/2015 -COCOC NO. SSC-2016-03-046-A issued on 05/24/2016	December 2016 (Ongoing Testing and Commissioning)	January 2017
<b>WIND</b>				<b>0</b>			
<b>BIOMASS</b>							

\* Committed Projects)  
 COAL  
 OIL  
 GEOTHERMAL  
 HYDROPOWER  
 WIND  
 SOLAR  
 BIOMASS



Total Committed Rated Capacity 271.77

271.77

TRUE

271.77