

PUBLIC HEARING REPORT

Proposed Mariveles Coal Power Plant Project

Barangay Biaan, Mariveles, Bataan

Submitted to:



ENVIRONMENTAL MANAGEMENT BUREAU
Department of Environment and Natural Resources
DENR Compound, Visayas Avenue, Diliman, Quezon City
Metro Manila, Philippines

Submitted by:

MARIVELES POWER GENERATION CORPORATION
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Mariveles Power Generation Corporation

PUBLIC HEARING REPORT Environmental Impact Assessment Study Proposed Mariveles Coal Power Plant Project Mariveles Power Generation Corporation

The Public Hearing for the Proposed Mariveles Coal Power Plant Project (the “**M CPP**”) of the Mariveles Power Generation Corporation (**MPGC**) located in Barangay Biaan, Mariveles, Bataan was conducted in November 20, 2018 which details are presented in **Table 1**.

Table 1. Schedule, Venue and Participants during the Public Hearing

Date, Time and Venue	Participants	No. of Participants
20 November 2018 10:00 AM Multi-purpose Court, Brgy. Biaan, Mariveles, Bataan	<ul style="list-style-type: none"> • EIAMD Case Handlers, EMB-Central Office • EIA Review Committee, EMB-Central Office • Department of Environment and Natural Resources - Region 3 • Department of Energy – Luzon Field Office • Mines and Geosciences Bureau - Region 3 • Department of Education • Authority of the Freeport Area of Bataan Representative • Municipal Disaster Risk Reduction and Management Office (MDRRMO) Representative • Municipal Environment and Natural Resources Office (MENRO) Representatives • Municipal Health Office (MHO) of Mariveles • Residents of Camaya Coast • Residents of Brgy. Biaan • Residents of Brgy. Bagac • Residents of Sitio Talain • Residents of Brgy. Poblacion • KOC Representatives • Coal-Free Bataan Movement Representatives • Greenpeace Representative • Limay Concerned Citizens, Inc. Representatives • Mariveles Power Generation Corporation • San Miguel Corporation • E-Fare Investment Holdings, Inc. • SMC Global Power Holdings. • GEOSPHERE Technologies, Inc. 	Male: 92 Female: 107 Total: 199

Prior to the conduct of Public Hearing, the information was disseminated to encourage participation of various stakeholder groups. The Notice of Public Hearing was published in the newspaper, *The Manila Times*, on November 6 and 13, 2018 and was posted at the EMB Central Office Website, www.eia.emb.gov.ph, on October 30, 2018. Moreover, invitation letters to the Public Hearing were also sent to the concerned project stakeholders and interested parties. Electronic copies of the Draft Final Environmental Impact Statement Report (**EISR**) and the EIS Summary for the Public (**ESP**) were also sent to the Regional Office of Environmental Management Bureau (**EMB**) - Region 3, Department of Energy – Luzon Field Office (**DOE-LFO**), Regional Office of the Mines and Geosciences Bureau (**MGB**) – Region 3, the Philippine Institute of Volcanology and Seismology (**PHIVOLCS**), the office of the Barangay Chairman of Brgy. Biaan, and the Philippine Movement for Climate Justice. Printed copies of the EISR were provided to the EMB-Region 3, Authority Freeport Area of Bataan (**AFAB**), and Municipal Planning and Development Office (**MPDO**) of the municipality of Mariveles. The copy of the affidavit of publication and received copies of invitation letters are presented in **Annex 1**.

The Public Hearing was facilitated by Engr. Carl Louie Santiago, Case Handler from the Environmental Impact Assessment and Management Division (**EIAMD**) of the EMB - Central Office (**EMB-CO**). The Public Hearing started with a prayer by Sister Beth Lazo, representative of the Religious Sector of Brgy. Biaan, and followed by the singing of the national anthem. The welcome remarks were given by Hon. Rodel Gutierrez, Brgy. Chairman of Brgy. Biaan, and was followed by the introduction of participants.

The overview of the EIA Study and the Objectives of Public Hearing were presented by Engr. Joel Polintan from the EIAMD of EMB-CO. The Ground Rules during Public Hearing were presented by Atty. Illac Bohol from the Legal Service Division of EMB-CO. The project description was presented by Engr. Eufemio Lazaro of Mariveles Power Generation Corporation (MPGC) while the benefits of the Project was presented by Mr. Eric dela Torre of San Miguel Foundation. The results of the EIA Study were discussed by Engr. Leticia T. dela Cruz of GEOSPHERE Technologies, Inc. After the presentations, an open forum was held, which was facilitated by Atty. Illac Bohol, to solicit inputs to the EIA Study of the project from the stakeholders. The public hearing was then adjourned at 2:30 PM after the summary of issues/concerns/inputs raised were summarized by Atty. Bohol and closing announcements from Engr. Carl Louie Santiago of EMB-CO.

The summary of issues/comments/suggestions that were raised during the Public Hearing are presented in **Table 2**. The transcriptions of the open forum, attendance sheets and photos taken during Public Hearing are presented in **Annex 2**.

Table 2. Summary of Issues/ Comments/ Suggestions Raised during Public Hearing

Name/Affiliation	Project-Related Issues/Concerns Raised	Response
PROJECT DESCRIPTION		
<p>Mr. Kevin Yu Representative, Greenpeace Philippines</p>	<p>Is coal your only option as a source of energy here in Bataan? What are your alternative sources? There are other ways to produce energy such as solar, wind and hydropower.</p>	<p>Ret. Col. Ariel Querubin, Head of Security, SMC:</p> <p>One limitation of solar power is it cannot be used directly as a base load [for electricity].</p> <p>Mr. Reynaldo Liganor, Department of Energy OIC-Director, Luzon Field Office:</p> <p>I was promoting, for the longest time, renewable sources of energy.</p> <p>Now, I stand by the position of the DOE being energy-neutral. Meaning, it will accept applications for energy projects, including clean coal. We have the Energy Investment Coordinating Council to certify the project, and it requires that the project pass the EIA.</p> <p>There are limitations for renewable energy – it is site-specific and modular. On the other hand, it is environment-friendly.</p> <p>Mr. Eric dela Torre, San Miguel Corporation Global Foundation:</p> <p>The San Miguel Corporation invests not only in coal, but also in renewable energy like hydropower. We are also investing in battery storage, which is needed to store solar energy from solar farms so that it can</p>

Name/Affiliation	Project-Related Issues/Concerns Raised	Response
		be fed to the power grid as base load.
Anonymous (Written question)	How much electric power does Bataan need? Who will consume the power that will be generated by this project?	<p>Mr. Henry Mandac, Consultant for Power Expansion – SMC Global:</p> <p>The electricity produced by the plant will be primarily used by industries here in Luzon. The electricity is at 500 kV so it can reach far areas, from North up to Bicol, and sometimes to Visayas. NGCP is the one in-charge with the transmission of this electricity to other areas.</p>
Ms. Daisy Pedranza Vice-President, Limay Concerned Citizens, Inc. (LICCI)	If you will transport the ash outside of the plant, can we be assured that it will be safe and properly managed?	<p>Ret. Col. Ariel Querubin, Head of Security, SMC:</p> <p>The situation in our Limay Plant is different from this project and we assure you that transport of ash to the cement plants will be managed properly.</p>
AIR		
Mr. Manuel Pacayay IP Representative from Upper Bataan	As presented, if the operation of the Coal Power Plant starts, air emissions will move towards the mountains where we live and get our source of income. As Indigenous People in Upper Bataan, we collect and sell honey. The smoke emissions could drive away the bees. What can we do on our part so that we will not be affected by your project?	<p>Engr. Leticia T. dela Cruz, GEOSPHERE Technologies, Inc.:</p> <p>We presented where the emissions will most likely fall, and that the concentration is predicted to be below the Clean Air Act standards. The standards are based on limits up to which, the emissions do not pose significant effects to the environment including the community and their livelihood.</p>
Mr. Lawrence Migalang Peoples Development Institute Staff in Bataan	How standard is the radius that was mentioned for air emission? As I have observed in Masinloc, Zambales, atmospheric pollution resulted to acid rain which destroyed the mango trees and crops.	<p>Engr. Leticia T. dela Cruz, GEOSPHERE Technologies, Inc.:</p> <p>The extent of emissions is determined by factors such as chimney height, weather or climate, and other input parameters.</p> <p>The radius is mapped based on the results of the model including the predicted values where the emissions will most likely fall. If the emissions are lower than the standard values, then they are compliant to standards.</p>
WATER		
Mr. Lawrence Migalang Peoples Development Institute Staff in Bataan	As mentioned, during operation you will discharge water to the discharge canal. How can we assure that your water discharge will not drive away the fishes and will not affect the livelihood of the fishermen?	<p>Engr. Leticia T. dela Cruz, GEOSPHERE Technologies, Inc.:</p> <p>DENR is currently working on requiring projects to install thermistors to monitor the discharge temperature if it is within the Clean Water Act. The standard is also more stringent, since they are requiring new plants to be compliant at the discharge point.</p>

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<p>Mr. Lawrence Migalang Peoples Development Institute Staff in Bataan</p>	<p>Reforestation programs were established but were not effective due to the river water being used faster than it is replenished.</p>	<p>Engr. Leticia T. dela Cruz, GEOSPHERE Technologies, Inc.:</p> <p>There are many factors causing water shortage, like increase in population and climate change.</p> <p>The project's reforestation program will be done in coordination with DENR, and the site for reforestation will be identified by the DENR.</p>
<p>Mr. Julito Velasco Resident of Morong, Bataan</p>	<p>The pollution emitted by coal-fired power plants include arsenic, lead, and mercury which may get to the nearby waters and cause diseases.</p>	<p>Engr. Leticia T. dela Cruz, GEOSPHERE Technologies, Inc.:</p> <p>In the operation of a coal-fired power plant, there is no process where lead, arsenic or mercury are added. The only source of these elements will be in the coal itself, which as presented had its origin from plants, deposited underground million years ago pressed, burned and became coal. This coal is now being mined to be used as fuel. So, the concentrations of these elements, if there will be any, are background levels.</p>
<p>Mr. Oscar delos Reyes Concerned Citizen, Mariveles</p>	<p>The proponent presented that they will get seawater and convert it to freshwater for use in their cooling system. However, if the company cannot sustain this, they have no choice but to dig deep wells and draw groundwater for their use.</p>	<p>Mr. Henry Mandac, Consultant for Power Expansion – SMC Global:</p> <p>Let me clarify regarding the cooling water for our project: we will use seawater and not freshwater. We will not convert the seawater into freshwater for cooling.</p> <p>For process water, we will source from surface water, and we do not plan to drill deep wells in the area.</p>
<p>Mr. Chris Palabay Chairperson, Save the Beauty of La Union Coalition</p>	<p>With regards to the water supply that you will get from the sea, how can you say that you will return the sea water as is? How about the planktons that will be sipped by your equipment?</p>	<p>Ret. Adm. Aurelio Rabuza, Jr., AVP, Department Head, SMC:</p> <p>I am not a technical person, but as far as my experience goes, the water that was drawn from the sea will be discharged still as seawater, like in a continuous cycle.</p>
<p>PEOPLE</p>		
<p>Ms. Luisa Alegado Violence Against Women and Children of Brgy. Biaan</p>	<p>If this project pushes through, our request as residents of Brgy. Biaan, is for you to take care of us and assist us. We still need support in many aspects. We lack ambulance, school buildings, school service vehicles and other needs especially the children.</p>	<p>Mr. Eric dela Torre, San Miguel Corporation Global Foundation:</p> <p>With regards to health, we are doing programs for our existing projects like medical missions and upgrading of Barangay Clinic for the host barangay.</p> <p>For education, we have scholarship programs aimed to acquire technical and vocational skills and competence. For elementary students, we provide school kits and conduct feedings.</p>

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		<p>For facilities like ambulance, this is part of the health and safety program, but the main thrust of our assistance program is prevention.</p>
<p>Ms. Gemma Concerned Citizen</p>	<p>What are the possible diseases that we might acquire from this project?</p>	<p>Engr. Leticia T. dela Cruz, GEOSPHERE Technologies, Inc.:</p> <p>Regarding pollution from the plant, dust during construction may cause difficulty in breathing or cause coughing. But, this can be mitigated by making sure that dusty areas are consistently wetted and levels of particulates are monitored to ensure that the values comply with the standards.</p> <p>There are no studies on sicknesses that directly link to the pollution of power plants in the country maybe because power plants are required to comply with the standards. Should they violate, DENR will close the plant.</p>
<p>Allen Gene Arabis Resident of Brgy. Biaan</p>	<p>Is it possible that Brgy. Biaan residents will not go through the screening process of AFAB when they apply for work in the project?</p>	<p>John Ryan Reyes, Senior Safety Specialist, AFAB:</p> <p>Since the project is under AFAB, the labor employment aspect will conform to AFAB requirements. We take note of the proponent's program to qualify the workers from Brgy. Biaan to AFAB requirements.</p>
<p>Atty. Gary Palmero Head, Legal Council of Camaya Coast</p>	<p>How does the proponent plan to address the perception of our residents and potential residents, that they are afraid of putting up houses in Camaya Coast because it is close to the power plant?</p>	<p>Mr. Eufemio Lazaro, Project Manager, SMC:</p> <p>Our perceptions are subjective and based on what we personally believe, so we can do nothing about it. What we can do is to construct a plant that is fully conformant to the requirements of the DENR and other laws. We will make sure that the chimney will not emit visible smoke during operation.</p> <p>During construction, our expats and other members of our project team may stay in Camaya, so that the residents there can talk to them, ask questions and get information from them regarding the project.</p>
<p>Mr. Ruel Estudillo Barangay Tanod, Brgy. Biaan</p>	<p>If this project proceeds to operation, I hope that it will not cause harm to our livelihood, especially that most of the residents here are fishermen. Instead, it should help us to prosper.</p>	<p>Mr. Eric dela Torre, San Miguel Corporation Global Foundation:</p> <p>As presented, the project will have minimal effect to our waters. Based on what we learned from our other projects, we have implemented fish sanctuaries with good results. We can also make artificial coral reefs as part of mitigation plan to the current bleached corals in certain areas. We also did this in our other plants, and we</p>

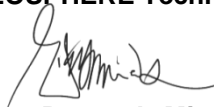
Name/Affiliation	Project-Related Issues/Concerns Raised	Response
		<p>involve the local fishermen in this program to provide them added income.</p> <p>For other sectors, for women, what we did in our other plants is to outsource our need for rags and cleaning through the livelihood program as implemented by the women in the host community, so they can earn at home.</p> <p>We also plan to involve our indigenous peoples in the creation and maintenance of our reforestation program, and involve local fishermen in maintaining the fish sanctuary to be created for this project.</p>
<p>Jettie Boy Laurita Resident of Brgy. Biaan</p>	<p>Can the residents of Brgy. Biaan be assured that if we have complaints, it will be addressed immediately by the Proponent?</p>	<p>Ret. Col. Ariel Querubin, Head of Security, SMC:</p> <p>I have personally provided my calling card to Barangay Chairman, and also to LICCI in Limay. The host barangay can always bring their complaints to our foundation representatives.</p>
<p>Jettie Boy Laurita Resident of Brgy. Biaan</p>	<p>The standards for employment of AFAB is high. We need to graduate a TESDA course first, but we do not have money for that. If this project pushes through, can you lessen the qualifications and requirements for the residents of Brgy. Biaan?</p>	<p>Ret. Col. Ariel Querubin, Head of Security, SMC:</p> <p>We have TESDA short courses that can provide you with trainings, while the plant is under construction.</p> <p>Mr. Eric dela Torre, San Miguel Corporation Global Foundation:</p> <p>In our existing projects, we roll out free certification training for TESDA NC-2, NC-3 and NC-1 for drivers to mason to carpenters. We plan to do the same here in this project.</p>
<p>Mr. Oscar delos Reyes Concerned Citizen, Mariveles</p>	<p>Was there already a ground breaking for the project?</p>	<p>Mr. Richard M. Dequilla, Project Manager, SMC:</p> <p>We cannot conduct ground breaking without an ECC. The ground breaking was for the Economic Zone, which has a different ECC.</p> <p>Ret. Col. Ariel Querubin, Head of Security, SMC:</p> <p>We have conducted a public hearing for the Mariveles Economic Zone, before the ground breaking was done as part of the site development.</p>

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<p>Mr. Oscar delos Reyes Concerned Citizen, Mariveles</p>	<p>We, concerned citizens, are against the coal power plant. If the plant is renewable energy like gas, wind, [we would easily agree to it].</p>	<p>Ret. Col. Ariel Querubin, Head of Security, SMC:</p> <p>As presented, this plant will utilize clean coal technology. We expect no smoke emission, and we also publish the results of our emissions so that the people will know.</p>
ENVIRONMENTAL MANAGEMENT PLAN		
<p>Mr. Alvin Pura Board of Director, Limay Concerned Citizens Inc. (LICCI)</p>	<p>I want to ask about the by-products from the plant, like the heavy metals. How sure are we that San Miguel will be responsible in implementing the built-in mitigation measures they plan to do, like for leaching, or water treatment?</p>	<p>Engr. Leticia T. dela Cruz, GEOSPHERE Technologies, Inc.:</p> <p>We can know the by-product through material balance, what we put in and what comes out. This will tell us that what constitutes our raw materials will result in our by-products. For this plant for example, since we use coal as raw material, then the heavy metal content of coal will also be present in the by-product, which is mainly ash. Since, there will be no additional chemicals that are introduced in the process, the elements present in the coal which are background levels will come out in the by-product which will also be as that of the background levels.</p> <p>The ash will be collected, and as presented by the proponent, will be reused for various purposes, such as in the manufacturing of cement.</p> <p>The residual (uncollected) emissions are predicted using a modeling tool to ensure that emissions are compliant to standards. If the project pushes through and it is in operation, the model will be validated and results will be compared to actual values that will be measured through monitoring.</p>
OTHER ISSUES AND CONCERNS		
<p>Mr. Oscar delos Reyes Concerned Citizen, Mariveles</p>	<p>Can we do the Public Hearing in People's Park?</p>	<p>Engr. Leticia T. dela Cruz, GEOSPHERE Technologies, Inc.:</p> <p>During our coordination, we requested the assistance of AFAB for the venue of the Public Hearing. We were referred to the Multi-purpose Court of Barangay Balon Anito but the Barangay LGU cannot easily commit their place for us and inform us that they still need to discuss our request in their Barangay Session. However, Chairman Gutierrez of Brgy. Biaan informed us to conduct the Public Hearing here in Barangay Biaan since the project is located in Barangay Biaan. He also volunteered to prepare this multi-purpose court for us.</p>

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<p>Mr. Oscar delos Reyes Concerned Citizen, Mariveles</p>	<p>Is the project approved by local government?</p>	<p>Engr. Joel Polintan, EMB-Central Office:</p> <p>This public hearing is part of the project proponent's process of acquiring ECC, which is a separate process from getting other permits and clearances required by local government.</p> <p>Engr. Leticia T. dela Cruz, GEOSPHERE Technologies, Inc.:</p> <p>Part of the EIA process is social participation to make the concerned LGUs aware of the project. We, together with the proponent, had conducted the Information, Education and Communication in the Provincial, Municipal and Barangay levels. Public Scoping was also conducted for all identified stakeholders, including the concerned LGUs.</p>
<p>Atty. Gary Palmero Head, Legal Council of Camaya Coast</p>	<p>It was presented that the proponent coordinated with Camaya coast when they conducted tests for land, air and water. I want to clarify if this coordination was done.</p>	<p>Engr. Leticia T. dela Cruz, GEOSPHERE Technologies, Inc.;</p> <p>What was presented was the recommendation to coordinate regularly with Camaya Coast.</p> <p>However, during baseline study, we have a station near the Camaya Coast, but not inside the Camaya Coast, since the security of Camaya Coast is very strict and our team was not allowed to establish station inside Camaya Coast.</p>

Prepared By:

GEOSPHERE Technologies, Inc.



Engr. Rogey A. Miedes
EIA Project Coordinator



Engr. Leticia T. dela Cruz
Managing Director

Noted By:

Mariveles Power Generation Corp.



Mr. Rene R. Mendoza
Project Director, MCPP