NEPR

Received:

Dec 30, 2022

5:00 PM

GOBIERNO DE PUERTO RICO JUNTA REGLAMENTADORA DE SERVICIO PÚBLICO NEGOCIADO DE ENERGÍA DE PUERTO RICO

IN RE: ENMIENDAS A CONTRATO DE COMPRAVENTA DE ENERGÍA: PROYECTO NO-OPERACIONAL (XZERTA-TEC SOLAR I, LLC) CASO NÚM.: NEPR-AP-2021-0002

ASUNTO: Moción para Presentar Informe de Progreso Mensual Correspondiente a Noviembre de 2022

MOCIÓN PARA PRESENTAR INFORME DE PROGRESO MENSUAL CORRESPONDIENTE A NOVIEMBRE DE 2022

COMPARECE la Autoridad de Energía Eléctrica de Puerto Rico (la "Autoridad") a través de la representación legal que suscribe y muy respetuosamente expone y solicita:

- 1. El 11 de mayo de 2021, el Negociado de Energía de la Junta Reglamentadora de Servicio Público (el "Negociado" o "Negociado de Energía") notificó *Resolución Final y Orden* (la "Resolución Final") mediante la cual aprobó, sujeto a algunas condiciones, la *Petición de Aprobación de Enmienda a Contrato de Compraventa de Energía Renovable con Xzerta-Tec Solar I, LLC* radicada por la Autoridad el 17 de marzo de 2021 para que el Negociado le impartiera su aprobación al Acuerdo Enmendado¹. La Resolución Final ordena a que, entre otras cosas, la Autoridad y Xzerta-Tec Solar I, LLC ("Xzerta") presenten ante el Negociado de Energía informes mensuales de progreso sobre el estatus del proyecto (el "Informe de Progreso Mensual").
- 2. El 9 de febrero de 2022, el Negociado emitió una *Resolución y Orden* mediante la cual, entre otras cosas, ordenó que la Autoridad y Xzerta debían presentar cada Informe de Progreso Mensual firmado por oficiales de cada entidad e informar la fecha de su preparación.

¹ Amended and Restated Renewable Power Purchase and Operating Agreement between the Puerto Rico Electric Power Authority and Xzerta Tec Solar LLC con fecha del 4 de junio de 2021 (2013-P00042E).

0099

3. El 10 de noviembre de 2022, el Negociado notificó la Resolución y Orden con el

título Moción para presentar Informe de Progreso Mensual; Solicitud de Acumulación mediante

la cual incluyó a LUMA Energy ServCo, LLC y LUMA Energy, LLC ("LUMA") como parte en

el caso de epígrafe y le ordenó designar un representante que comparezca y participe de la

certificación de los informes.

4. En cumplimiento con la Resolución Final y las órdenes del 9 de febrero y 10 de

noviembre de 2022, la Autoridad presenta:

- El Informe de Progreso Mensual correspondiente a noviembre 2022 preparado por

Xzerta y revisado por la Autoridad (Anejo A) y

- la Declaración de LUMA en relación con el Informe de Progreso Mensual de

noviembre 2022 (Anejo B).

POR TODO LO CUAL, la Autoridad solicita respetuosamente al Negociado de Energía

que tome conocimiento de lo aquí informado y acepte el Informe Mensual de noviembre 2022.

RESPETUOSAMENTE SOMETIDO.

En San Juan, Puerto Rico, este 30 de diciembre de 2022.

<u>/f Katiuska Bolaños Lugo</u>

Katiuska Bolaños Lugo

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TSPR 18888

Joannely Marrero Cruz

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2

CERTIFICADO DE NOTIFICACIÓN

Certifico que este escrito ha sido presentado a la Secretaria del Negociado de Energía a través del sistema electrónico de radicación https://radicacion.energia.pr.gov/ y, además, copia del mismo ha sido notificado a LUMA Energy ServCo, LLC y LUMA Energy, LLC por conducto de la Licenciada Laura T. Rozas Lura.rozas@us.dlapiper.com.

En San Juan, Puerto Rico, hoy 30 de diciembre de 2022.

<u>f/ Katiuska Bolaños Lugo</u> Katiuska Bolaños Lugo

Anejo A



VIA EMAIL: kfutch@KSLAW.com

December 4, 2022

Mr. Josué Colón Executive Director Puerto Rico Electric Power Authority

RE: Xzerta-Tec Solar I, LLC November Progress Report

Dear Executive Director:

Herewith, we are providing our monthly progress and status report made including project activities required for the project completion. In the upcoming months, our team will continue sustaining meetings with both PREPA and LUMA to refine the engineering design and the facility's interconnection to the grid. The following table will be used to identify the project activities, and any other issues with their respective status and progression for the proper implementation of this project.

#	Activity	Description	Status	Comments
1	Design			
	A. Power Design - Drawings	Xzerta provided the 13th revision of the drawings and the relay study on 10/28/2022, which included all changes as per Luma's comments. On 11/23/2022, a 14th revision was provided with the proposed route as conceptual design of the transmission line to request for a 3rd time the permits for usage of the PREPA's easement. This item is not required for the fulfillment of Article 4.1. Based on Luma response to RFI 011, the approval of the Transformer and protective relays proposed products used for the interconnection are pending on the completion of the interconnection study. Based on PPOA, the interconnection study shall be completed 60 days upon submitting all information as per	Submitted	Under LUMA / PREPA review and approval

Disclosure: This report is provided for informational purposes only. By accepting this information, the recipient agrees that it will, and it will cause its employees, agents, and representatives, to treat the information as such. Any reference made herein to terms or conditions should be subject to the language of the power purchase and operation agreement. The Information supersedes all information contained in any prior report or presentation for this project and is subject to change.



		article 4.1. As of 11/4/2022, PREPA assigned Sargent & Lundy, with Xzerta's agreement, as the CTE firm that will complete the interconnection study. This study is necessary for the final detail design and proper integration of the interconnection. Final design, which will include transmission lines design, conduits, racks, grounding and bonding, will be delivered upon receiving the final study and preliminary design of the Hatillo Substation modifications from LUMA		
/	Energy Yie Assessment ar Relay Study	d Relay Study was submitted on Sept	Waiting for approval	Under LUMA / PREPA review and approval
	Products	Proposed products and Models for the interconnection have been submitted to LUMA for approval. Documentation for the inverters, batteries, Transformer, Protective relays and MV switchgear were transmitted for approval, but LUMA stated that they will not approve any Products related to the solar farm but only the interconnection. LUMA stated it will be handled as for information only. LUMA have approved with comments the proposed gas circuit breaker from the manufacturer, Hitachi. LUMA responded to RFI 011-Request Step up Oil 3P Power Transformer that they did not have an exception to the proposed products, but their response should not be taken as approval as it is pending on the completion of the interconnection study. RFI 009-Request for Approval of Protective relays is still open.	Waiting for approval of the protective relays	for the approval of the protective relays. Step Up 3P Main Transformer was not officially approved like other products pending for the results of the interconnection study. At this point, XZERTA has not commence with the orders of equipment due to the high risk of not having proper approval of products. Lead times can severely affect proposed schedule
D. S	SCADA list	Our team is in receipt of current SCADA list sample shared by LUMA. Based on this sample, our team will develop the preliminary SCADA Point list and will add all available alarms and events based on the final design. The list is pending on the	In progress	Under development while waiting for LUMA's study results



E. (Other Design	completion of LUMA's analysis and study of our design to determine if additional protections, alarms or other necessary points are required to be included in our design. The geometric and layouts are currently under development. Once all products have been identified then the foundations drawings, racks design, grounding, and conduits design. Preliminary design for the transmission lines was submitted on 11/23/2022.	In Progress	
F. C	Dynamic Study	Based on the preliminary design, Energinx has completed the dynamic study, and it was submitted for LUMA's perusal and approval.	Submitted	Waiting for LUMA's review and evaluation
	Winds Conditions requirement	LUMA/PREPA winds conditions requirement of 160 MPH has become an issue. Several vendors have responded that they will be unable to meet this requirement. Currently, products meet 140 MPH. ASCE allows the 140 MPH criteria on the location that the farm will be built. It was requested an exemption and LUMA responded that the requirement is only applicable to equipment that will handled or owned by PREPA or them. Furthermore, LUMA will not provide any technical inputs to any equipment or products that are not within the interconnection	Closed	LUMA stated that this particular requirement is not applicable and they will not provide any technical input of products used outside of the interconnection. GCB which meets 140 Mph has been approved
C E	Transmission line design and Easement Usage Permit	It was requested the usage of a PREPA ROW or Easement near to the lands of the project to minimize the environmental impacts and shorten the path to the Hatillo POI substation via an RFI. LUMA responded that it will be required to be address through their department of Land management and development instead. All documentation has been submitted to the LUMA's Land Department for certification, and endorsement. LUMA responded in a 2 nd letter that it will require more information of the transmission line design in order to approve the usage.	In Progress	Preliminary Transmission line design defining the route has been released by 11/23/2022.



		Preliminary Transmission line design defining the route as per appendix b of the PPOA was released by 11/23/2022 and another letter to request the permit of usage of the easement was sent to LUMA Land Dept on the same date.		
2	Commercial			
	A. Certifications	filed with the Puerto Rico Energy Bureau for Xzerta Tec's Electric Service Company Certification as required under Rule 8701	Completed	Approved
	B. Loans	Term Sheet was received	In Progress	Modifications received. Discussions are undergoing awaiting new IRS rules regarding ITC'c after latest amendments to the inflation reduction Act.
	C. Leases	Executed the extensions on the leases of the properties that required such extensions. Xzerta continue to maintain land control over all the proposed parcels, plus some additional lots have been added and surveyed to guarantee the necessary space for the increased capacity.	Completed	
	D. Mars CPA Report	Commissioned a report from our accounting firm Mars CPA regarding the possible incentives available to the project under the Puerto Rico Incentives Code, to review the prior decree granted to the project by the Department of Economic Development and to establish the final structure regarding the tax equity of the project.	Completed	
	E. LUMA request for payment for interconnection Study	LUMA transmitted a request for payment letter regarding of the study and evaluation of the project interconnection. Total amount to be paid as per LUMA letter is \$341k. As agreed with PREPA, Sargent & Lundy will perform the interconnection study.	Resolved Completed	After latest meeting with both PREPA and LUMA, PREPA has engaged Sargent and Lundy to conduct the study.
3	Contracting			



	A. Land Survey and Topographic Survey	Geomatic Solutions and Surveying, PSC	Completed	
	B. Plant Design	CSA Architects and Engineers, LLP	In progress	
	C. Archaeological Study	Fernando Alvarado	In progress	
	D. Environmental Site Assessment Phase I-A Phase I-B E. Habitat Study	Tycroes group Alejandro Cubiña	Completed Delivered Completed	Phase B received and under review
	F. Foundation Design	Carlos Rivera, P.E.	Completed	
	G. Anchoring	RBI Solar, Solar Mounts and / or Schletter	In progress	
	H. Electrical Design	Miguel Ortiz, P.E. Lisaidyn Perez Enerzinx	Completed	
	I. SCADA Systems Design	Lisaidyn Perez	Completed	
	J. Modeling and Simulations	Enerzinx	Completed	Submitted on 07/2022 and waiting for approval
	K. Relay Study	Enerzinx	Completed	resubmitted to Luma incorporating comments on 10/28/2022 and waiting for approval
	L. Transmission Lines	Lines Eng Hector Castillo will not be able to complete the work. Xzerta is working with Eng Ronald Hopgood and other proponents to bring another engineer of record in our team.		A Preliminary design to be submitted on 11/23/2022 but a new contract will be required to complete the detailed design.
3	Construction			
	A. Permits	Completed the following: 1. Location 2. Environmental 3. Endorsements by - Highway and Transportation Authority - Puerto Rico Energy Bureau - Cultural Institute - Puerto Rico Telecommunications Bureau	In progress	Still waiting for LUMA / PREPA approval for usage of ROW/ Easement



		Puerto Rico Aqueduct and Sewer Authority Department of Agriculture Pending NWP-14 NPDES General Permit Permits Management Office (OGPe) - Calculations for construction square footage were completed to finalize permit. Permit will be updated with the new data. 4. PREPA ROW / Easement Permit of usage		
	B. Land Acquisition		Completed	
	C. Contractors	No major changes, waiting for final drawings with Luma comments to be completed. Preliminary Scope of work was distributed to potential EPC, waiting for their updates of the quotes	In progress	General Contractor (EPC), subcontractors and consultants' agreements are in process.
	A. Material List	The material list has been generated but many long lead times products are waiting for proper approval.	In progress but waiting for approvals	Refer to Material List Annex 1 found below for further information
	B. Orders	Waiting for LUMA's or PREPA's approval of proposed products.	In progress	lead time of equipment could impact final implementation of project
5				
	A. Installation	Preliminary definition of scope of works have been created and shared with proponents. EPCs will provide updated quotes but final prices and contract are pending on the final design.	In progress	Waiting for Changes to Design Suggested by Luma
	B. Testing	Master Plan to be generated after approval of the design and upon receiving PREPA's approved testing protocols. Master plan and test procedures will be generated in accordance with PREPA/LUMA approved testing protocols and operations.	Not started	their test protocols. The master plan will be based on this inf and the final approval of design



The following table shows the status of RFIs:

#				Data	
#	NI	December 11 and	Charles	Date Submitted	Community
	Number	Description	Status	Submitted	Comments
					1 item remained open.
					Transformer should be YG to
		Transfermer as a constant			Delta on the side of
		Transformer specs and			interconnection of 115 KV
١,	RFI-001	interconnection requirements (Y-D, D-Y or D-D)	Closed	4/07/2000	with PREPA with an internal shift of 30
1	Kri-001	(1-D, D-1 01 D-D)	Closed	4/26/2022	Specifications received.
					Issues with Wind Conditions
		Transformer specs (Not			requirement. It will be
2	RFI-002	responded under RFI-001)	Closed	5/23/2022	followed through RFI-006
	KIT 002	SCADA Communication	Closed	0/20/2022	10110 WCG THOUGH KIT CCC
3	RFI-003	Protocol and Sample of Points	Closed	5/23/2022	Received List. TBR
	1111 000	Amount of demand Energy of	0.0000	0, 20, 2022	Calculated at 0.0003% or
4	RFI-004	PR	Closed	5/23/2022	0.001 %
				-, -,	Item is still open. LUMA
					requested to submit request
					for usage of easement via
					another form since it is
		Request of Permit to usage of			managed by Land
5	RFI-005	PREPAs ROW	Closed	5/23/2022	Management Dept
					LUMA stated that the cited
					specification details the
					requirements for equipment
					to be owned, operated,
					and maintained by
					PREPA/LUMA.
		Request for exemption to Wind			
		Vendors unable to meet criteria			interconnected to the grid.
i		of 160 MPH. Current design			Refer to PPOA sections
		LOT 160 MPH. Current design			
		Request for exemption to Wind Conditions requirements.			Knowing that this equipment will remain under the care, custody, and control of the proponent, LUMA will not provide technical input on alternate wind load criteria for transformer components, since it is not an evaluation factor to determine the Facility's capability to be



7	RFI-007	Request for approval of GCB proposed product	Closed	6/2/2022	Hitachi GCB Breaker for 115 KV. It has been conditionally approved. LUMA requested to increase CC of GCB1 based on their current design, 145 KV @ 2000 A CC
/	KTI-OO7	Request for approval of MV	Closed	6/2/2022	LUMA stated that the MV switchgear approval is not within responsibilities. This will remain under contractor decisions regarding the
8	RFI-008	Switchgear proposed product	Closed	6/30/2022	solar farm design.
9	RFI-009	Request for approval of Protective Relays, Network Switch, Controller	Open	7/11/2022	
	KITOO7	Request for approval of	Орсп	771172022	
10	RFI-010	Dynamic Studies	Open	7/11/2022	
11	RFI-011	Request for approval of 3P Main Step-Up Oil Transformer 34/115 KV	Closed	7/11/2022	
12	RFI-012	Request for Testing Protocols and operating procedures	Closed	8/1/2022	Delivered
13	RFI-013	Request for LUMA/ PREPA to confirm if the Seismic Design Category can remain in A instead D because there is no historical data that requires to consider inertial loads associated with earthquakes within the area	Closed	10/13/2022	For the moment, LUMA will not evaluate the civil design aspects for the medium voltage switchgear, since this equip is located upstream from the Main Power Transformer, and thus lies beyond LUMA's evaluation responsibilities for privately-owned Renewables projects. During the normal construction project permits process, other government agencies may have requirements

The following table shows the status of Transmittals:

				Date	
#	Number	Description	Status	Submitted	Comments
		Relay Study and Updated			
1	XTA-TRA-0001	Preliminary design	Open	9/21/2022	
2	XTA-TRA-0002	Energy Yield Assessment	Open	9/30/2022	
		Relay Study and Updated			
		Preliminary design based on			
		LUMA's Comments of			
3	XTA-TRA-0003	10/3/2022	Open	10/28/2022	



		Xzerta Ltr 2nd Request of Permit Use of ROW and Rev			
4	XTA-TRA-0004	14 SLD Preliminary Design	Open	11/23/2022	

We continue committed to providing PREPA and the people of Puerto Rico clean and efficient energy and to assist in achieving the targets established in the Integrated Resources Plan (IRP) and the Public Policy aimed by the Government of Puerto Rico.

Sincerely,

Fernando Molini-Vizcarrondo

xc: <u>francisco.santos@prepa.com</u> <u>Mcadavid@kslaw.com</u> <u>kbolanos@diazvaz.law</u>

Attachments

Revised by PREPA Representative:

F. Santos
F. Santos (Dec 28, 2022 16:12 AST)

Francisco Santos, Esq. Manager Business Strategy and Operations, PREPA December 28, 2022



Equipment and Components – Materials Status List

Equipment	Company/Brand	Status	Comments
PV Modules	RFPs Submitted to vendors	Proposal Received from Talesun and waiting from other vendors (Trina Solar)	Negotiating Commitment and waiting for other proposals
Inverters	Ingeteam	Refresh of Proposal Received from Ingeteam to proceed with PO	Reviewing Contract Terms with Ingeteam
Battery Equipment	Ingeteam	Refresh of Proposal Received from Ingeteam to proceed with PO	Reviewing Contract Terms with Ingeteam
Racks and Anchoring	Schletter/Solar Mounts	Provided latest preliminary design to RBI Solar to have them Revised Proposal	On going
Main Switchgear	Eaton	Received proposal from Eaton and Submitted for approval	LUMA stated that Main Switchgear will remain under the contractor prerogative. No approval necessary
GIS/GCB	Hitachi	Submitted for approval	LUMA approved it with comments. Changes incorporated to proceed with POs
Transformer 34.5/115K	Hitachi	Submitted for approval	Pending
Meters	Eaton	Waiting to receive meters information from Eaton to submit product for approval	
Protective Relays	SEL	Submitted for approval	Pending
Foundations	Pending Completion of design		
Posts & Towers	TBD		
Cables & Miscellaneous	Caribe Sales	Revised proposal received. Final proposal will be delivered upon completing design	

Anejo B



STATEMENT REGARDING XZERTA TEC SOLAR I, LLC MONTHLY STATUS PROGRESS REPORT FOR NOVEMBER 2022

For purposes of compliance with PREB's Resolution and Order of November 10, 2022, in Case NEPR-AP-2021-0002 (Enmiendas a Contrato de Compraventa de Energía: Proyecto No-Operacional (Xzerta-Tec Solar I, LLC)), LUMA Energy ServCo, LLC ("LUMA") hereby informs that LUMA:

- has reviewed the referenced monthly progress report prepared by Xzerta Tec Solar I, LLC dated November 4th, 2022 and submitted to the Puerto Rico Electric Power Authority (the "Xzerta Report"), which report is to be filed with the Puerto Rico Energy Bureau ("PREB") as per PREB's Final Determination and Order of May 11, 2021 in the same case; and
- does not have reason to disagree with the information in the Xzerta Report, except as
 otherwise indicated in or subject to, LUMA's comments included in the attached
 document which replicates the table of activities and status thereof in the Xzerta
 Report and includes a column added by LUMA to include LUMA's comments for
 purposes of clarifying, updating or correcting the information in the report.

LUMA Representative:

Name: Daniel Hernandez

Title: Director-Renewable Projects

Date: 12/29/2022



LUMA Comments to XZERTA Monthly Report

November 2022



#	Activity	Description	Status	Comments	LUMA Comments
1	Design				
	A. Power Design-Drawings	Xzerta provided the 13th revision of the drawings and the relay study on 10/28/2022, which included all changes as per LUMA's comments. On 11/23/2022, a On 11/23/2022, a 14th revision was provided with the proposed route as conceptual design of the transmission line to request for a 3rd time the permits for usage of the PREPA's easement. This item is not required for the fulfillment of Article 4.1. Based on Luma response to RFI 011, the approval of the Transformer and protective relays proposed products used for the interconnection are pending on the completion of the interconnection study. Based on PPOA, the interconnection study shall be completed 60 days upon submitting all information as per article 4.1. As of 11/4/2022, PREPA assigned Sargent & Lundy, with Xzerta's agreement, as the CTE firm that will complete the interconnection study. This study is necessary for the final detail design and proper integration of the interconnection. Final design, which will include transmission lines design, conduits,	Submitted	Under LUMA/PREPA review and approval	It Should be clarified that the preliminary design of the Hatillo Substation modifications will be conducted by S&L and not LUMA as part of the interconnection studies. No pending actions from LUMA.

#	Activity	Description	Status	Comments	LUMA Comments
		racks, grounding and bonding, will be delivered upon receiving the final study and preliminary design of the Hatillo Substation modifications from LUMA			
	B. Energy Yield Assessment and Relay Study	Relay Study was submitted on Sept 21, 2022, and the Energy Yield Assessment w a s submitted f o r approval on Sept 30 th , 2022.	Waiting for approval	Under LUMA / PREPA review and approval	There is no approval needed from PREPA or LUMA. These are inputs for the interconnection studies that are being conducted by S&L.
	C. Products	Proposed products and Models for the interconnection have been submitted to LUMA for approval. Documentation for the inverters, batteries, Transformer, Protective relays and MV switchgear were transmitted for approval, but LUMA stated that they will not approve any Products related to the solar farm but only the interconnection. LUMA stated it will be handled as for information only. LUMA have approved with comments the proposed gas circuit breaker from the manufacturer, Hitachi. LUMA responded to RFI 011- Request Step up Oil 3P Power Transformer that they did not have an exception to the proposed products, but their response should not be taken as approval as it is pending on the	Waiting for approval of the protective relays	We are waiting for the approval of the protective relays. Step Up 3P Main Transformer was not officially approved like other products pending for the results of the interconnection study. At this point, XZERTA has not commence with the orders of equipment due to the high risk of not having proper approval of products. Lead times can severely affect proposed schedule	Completion of the Interconnection studies are necessary for approvals of the protective relays and other equipment.



#	Activity	Description	Status	Comments	LUMA Comments
		completion of the interconnection study.RFI 009 Request for Approval of Protective relays is still open.			
	D. SCADA list	Our team is in receipt of current SCADA list sample shared by LUMA. Based on this sample, our team will develop the preliminary SCADA Point list and will add all available alarms and events based on the final design. The list is pending on the completion of LUMA's analysis and study of our design to determine if additional protections, alarms, or other necessary points are required to be included in our design.	In progress	Under development while waiting for LUMA's study results	Upon submission of the interconnection studies by S&L and the submission of Xzerta of the SCADA points, LUMA will be able to conduct the appropriate analysis. This action is awaiting the S&L study.
	E. Other Design	The geometric and layouts are currently under development. Once all products have been identified then the foundations drawings, racks design, grounding, and conduits design. Preliminary design for the transmission lines was submitted on 11/23/2022.	In Progress		
	F. Dynamic Study	Based on the preliminary design, Energinx has completed the dynamic study, and it was submitted for LUMA's perusal and approval.	Submitted	Waiting for LUMA's review and evaluation	There is no approval needed from LUMA. These are inputs for the interconnection studies that are being conducted by S&L.
	G. Winds Conditions requirement	LUMA/PREPA winds conditions requirement of 160 MPH has become an issue. Several vendors have	Closed	LUMA stated that this particular requirement is not applicable, and they will not provide any	



#	Activity	Description	Status	Comments	LUMA Comments
		responded that they will be unable to meet this requirement. Currently, products meet 140 MPH. ASCE allows the 140 MPH criteria on the location that the farm will be built. It was requested an exemption and LUMA responded that the requirement is only applicable to equipment that will handled or owned by PREPA or them. Furthermore, LUMA will not provide any technical inputs to any equipment or products that are not within the interconnection		technical input of products used outside of the interconnection. GCB which meets 140 Mph has been approved	
	H. Transmission line design and Easement Usage/ Permit	It was requested the usage of a PREPA ROW or Easement near to the lands of the project to minimize the environmental impacts and shorten the path to the Hatillo POI substation via an RFI. LUMA responded that it will be required to be address through their department of Land management and development instead. All documentation has been submitted to the LUMA's Land Department for certification, and endorsement. LUMA responded in a 2nd letter that it will require more information of the transmission line	In Progress	Preliminary Transmission line design defining the route has been released by 11/23/2022.	The 11/23 request was received and is under evaluation by the LUMA team.



#	Activity Description		Status	Comments	LUMA Comments
	design in order to approve the usage. Preliminary Transmission line design defining the route as per appendix b of the PPOA was released by 11/23/2022 and another letter to request the permit of usage of the easement was sent to LUMA Land Dept on the same date.				
2	Commercial				
	A. Certifications filed with the Puerto Rico Energy Bureau for Xzerta Tec's Electric Service Company Certification as required under Rule 8701		Completed	Approved	
	B. Loans Term Sheet was received		In Progress	Modifications received. Discussions are undergoing awaiting new IRS rules regarding ITC'c after latest amendments to The inflation reduction Act.	
	C. Leases	Executed the extensions on the leases of the properties that required such extensions. Xzerta continue to maintain land control over all the proposed parcels, plus some additional lots have been added and	Completed		



#	Activity	Description	Status	Comments	LUMA Comments
		surveyed to guarantee the necessary space for the increased capacity.			
	D. Mars CPA Report	Commissioned a report from our accounting firm Mars CPA regarding the possible incentives available to the project under the Puerto Rico Incentives Code, to review the prior decree granted to the project by the Department of Economic Development and to establish the final structure regarding the tax equity of the project.	Completed		
	E. LUMA request for payment for interconnection Study	LUMA transmitted a request for payment letter regarding of the study and evaluation of the project interconnection. Total amount to be paid as per LUMA letter is \$341k. As agreed with PREPA, Sargent & Lundy will perform the interconnection study.	Resolved Completed	After latest Meeting with both PREPA and LUMA, PREPA has engaged Sargent and Lundy to conduct the study.	
3	Contracting				
	A. Land Survey and Topographic Survey	Geomatic Solutions and Surveying, PSC	Completed		
	B. Plant Design	CSA Architects and Engineers, LLP	In progress		



#	Activity	Description	Status	Comments	LUMA Comments
	C. Archaeological Study	Fernando Alvarado	In progress		
	D.Environment al Site Assessment Phase I-A Phase I-B	Tycroes group	Completed Delivered	Phase B received and under review	
	E.Habitat Study	Alejandro Cubiña	Completed		
	F. Foundation Design	Carlos Rivera, P.E.	Completed		
	G. Anchoring	RBI Solar, Solar Mounts and/or Schletter	In progress		
	H. Electrical Design	Miguel Ortiz, P.E. Lisaidyn Perez Enerzinx	Completed		
	I. SCADA Systems Design	Lisaidyn Perez	Completed		
	J. Modeling and Simulations	Enerzinx	Completed	Submitted on 07/2022 and waiting for approval	There is no approval needed from PREPA or LUMA. These are inputs for the interconnection studies that are being conducted by S&L.
	K. Relay Study	Enerzinx	Completed	Resubmitted to Luma incorporating comments on 10/28/2022 and waiting for approval	There is no approval needed from PREPA or LUMA. These are inputs for the interconnection studies that are being conducted by S&L.
	L. Transmission Lines	Eng Hector Castillo will not be able to complete the work. Xzerta is working with Eng Ronald Hopgood and other proponents to bring another	In Progress	A Preliminary design to be submitted on 11/23/2022 but a new contract will be required to complete	Preliminary design received. No pending action necessary from LUMA until the detailed design is received.



#	Activity Description		Status	Comments	LUMA Comments
		engineer of record in our team.		the detailed design.	
3	Construction				
	A. Permits	Puerto Rico Aqueduct and Sewer Authority Department of Agriculture Pending 1. NWP-14 2. NPDES General Permit 3. Permits Manageme nt Office (OGPe) - Calculations for construction square footage were completed to finalize permit. Permit will be updated with the new data. PREPA ROW / Easement Permit of usage	In progress	Still waiting for LUMA/PREP A approval for usage of ROW/ Easement	Request for usage of existing easement was received and is under evaluation by the LUMA team.
	B. Land Acquisition		Completed		
	C. Contractors	No major changes, waiting for final drawings with Luma comments to be completed. Preliminary Scope of work was distributed to potential EPC, waiting for their updates of the quotes	In progress	General Contractor (EPC), subcontracto rs and consultants' agreements are in process.	
4	Procurement				



#	Activity	Description	Status	Comments	LUMA Comments
	A. Material List	The material list has been generated but many long lead times products are waiting for proper approval.	In progress but waiting for approvals	Refer to Material List Annex 1 found below for further information	LUMA's review of materials on the developer's facilities up to the high side of the step-up transformer are not required. It is the developer's responsibility to comply with the MTRs and applicable codes and regulations. The MTR compliance is an output of the interconnection studies.
	B. Orders	Waiting for LUMA's or PREPA's approval of proposed products.	In progress	Lead time of equipment could impact final implementation of project	LUMA's approval of the orders of materials on the developer's facilities up to the high side of the step-up transformer are not required. It is the developer's responsibility to comply with the MTRs and applicable codes and regulations. The MTR compliance is an output of the interconnection studies.
5	Implementation				
	A. Installation	Preliminary definition of scope	In progress	Waiting for Changes to	LUMA will not provide design



#	Activity	Description	Status	Comments	LUMA Comments
		of works have been created and shared with proponents. EPCs will provide updated quotes but final prices and contract are pending on the final design.		Design Suggested by Luma	comments on the developer's side of the project. The Point of interconnection facilities are pending the completion of the interconnection studies by S&L.
	B. Testing	Master Plan to be generated after approval of the design and upon receiving PREPA's approved testing protocols. Master plan and test procedures will be generated in accordance with PREPA/LUMA approved testing protocols and operations.	Not started	LUMA submitted their test protocols. The master plan will be based on this inf and the final approval of design	

The following table shows the status of RFIs:

#	Number	Description	Status	Date Submitted	Comments	LUMA Comments
1	RFI-001	Transformer specs and interconnection requirements (Y-D, D-Y or D-D)	Closed	4/26/2022	1 item remained open. Transformer should be YG to Delta on the side of interconnection of 115 KV with PREPA with an internal shift of 30	No open items. Refer to RFI 001 response.
2	RFI-002	Transformer specs (Not responded under RFI-001)	Closed	5/23/2022	Specifications received. Issues with Wind Conditions requirement. It	Response to RFI was delivered by LUMA and wind conditions



#	Number	Description	Status	Date Submitted	Comments	LUMA Comments
					will be followed through RFI-006	question clarified.
3	RFI-003	SCADA Communication Protocol and Sample of Points	Closed	5/23/2022	Received List. TBR	
4	RFI-004	Amount of demand Energy of PR	Closed	5/23/2022	Calculated at 0.0003% or 0.001 %	
5	RFI-005	Request of Permit to usage of PREPAs ROW	Closed	5/23/2022	Item is still open. LUMA requested to submit request for usage of easement via another form since it is managed by Land Management Dept	Item is not closed. Request for usage of existing easement was received and is under evaluation by the LUMA team.
6	RFI-006	Request for exemption to Wind Conditions requirements. Vendors unable to meet criteria of 160 MPH. Current design meets 120 to 140 MPH	Closed	6/2/2022	LUMA stated that the cited specification details the requirements for equipment to be owned, operated, and maintained by PREPA/LUMA. Knowing that this equipment will remain under the care, custody, and control of the proponent, LUMA will not provide technical input on alternate wind load criteria for transformer components, since it is not an evaluation factor to determine the Facility's capability to be interconnected to the grid. Refer to PPOA sections 9.4(a) and (b).	



#	Number	Description	Status	Date Submitted	Comments	LUMA Comments
7	RFI-007	Request for approval of GCB proposed product	Closed	6/2/2022	Hitachi GCB Breaker for 115 KV. It has been conditionally approved. LUMA requested to increase CC of GCB1 based on their current design, 145 KV @ 2000 A CC	Item is not closed. Item will be reviewed upon completion of the interconnection studies by S&L.
8	RFI-008	Request for approval of MV Switchgear proposed product	Closed	6/2/2022	LUMA stated that the MV switchgear approval is not within responsibilities. This will remain under contractor decisions regarding the solar farm design.	
9	RFI-009	Request for approval of Protective Relays, Network Switch, Controller	Open	7/11/2022		Major equipment evaluations are dependent upon the Interconnections and Facility Studies performed by S&L.
10	RFI-0010	Request for approval of Dynamic Studies	Open	7/11/2022		Dynamic Studies are a part of the Interconnection studies and will be addressed upon their completion.
11	RFI-0011	Request for approval of 3P Main Step-Up Oil Transformer 34/115 KV	Closed	7/11/2022		
12	RFI-0012	Request for Testing Protocols and operating procedures	Closed	8/1/2022	Delivered	
13	RFI-0013	Request for LUMA/ PREPA to confirm if the Seismic Design Category can remain in A instead D because there is no historical data that requires to consider inertial loads	Closed	10/13/2022	For the moment, LUMA will not evaluate the civil design aspects for the medium voltage switchgear, since this equip is	



#	Number	Description	Status	Date Submitted	Comments	LUMA Comments
		associated with earthquakes within the area			located upstream from the Main Power Transformer, and thus lies beyond LUMA's evaluation responsibilities for privately-owned Renewables projects. During the normal construction project permits process, other government agencies may have requirements	

The following table shows the status of Transmittals:

#	Number	Description	Status	Date Submitted	Comments	LUMA Comments
1	XTA-TRA-0001	Relay Study and Updated Preliminary design	Open	9/21/2022		Will be reviewed upon completion of Facility and Interconnection Studies by S&L.
2	XTA-TRA-0002	Energy Yield Assessment	Open	9/30/2022		Will be reviewed upon completion of Facility and Interconnection Studies by S&L.
3	XTA-TRA-0003	Relay Study and Updated Preliminary design based on LUMA's Comments of 10/3/2022	Open	10/28/2022		Will be reviewed upon completion of Facility and Interconnection Studies by S&L.
4	XTA-TRA-0004	Xzerta Ltr 2nd Request of Permit Use of ROW and Rev 14 SLD Preliminary Design	Open	11/23/2022		Received and under evaluation by the LUMA team

