



RENEWABLE ENERGY RESEARCH CENTER

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RISK AND OPPORTUNITIES ASSESSMENT MATRIX

Year: 2022

Vision:

Mission:

Office/Unit: Renewable Energy Research Center

A. RESEARCH PROGRAM

#	ACTIVITIES	ISSUE	≣S	RISK	IMPACT (for all	EXISTING CONTROL		RISK ESSM SCORI	IENT	RISK PRIORITY	ACTION PLAN	Current STATUS	Contingency	OPPORTUNITIES	ACTION PLAN
		Internal (Weaknesses)	External (Threats)		weaknesses and threats)	(for all weaknesses and threats)	SEV	осс	DET	NUMBER	(Risks)	(Action Plan)	Plan		(Opportunities)
Ensu		Relevance (G2, KR					•	•							
A.1	Publication of research outputs	RERC-22-W1 The Center has no regular research staff.	RERC-22- T2 Transfer of the two (2) trained JO SRAs of the Center to other agencies interested to hire them	RERC-22- W1/W2/T2- R1/R2/R2 Loss of competitive advantage in doing research and extension	Limited/ No published research outputs	Hiring of Science Research Assistants (SRAs), on Job Order status	2	3	3	18 (Medium Risk)	RERC- 22-APR- 01 Request for regular research staff	The two (2) SRAs on Job Order Status in the Center are recommende d for renewal of their contract of service	RERC-22-CP- 01 Recruit more qualified affiliate faculty researchers to join the Center	RERC-22-02 The two (2) existing Science Research Assistance (SRAs), who are registered AB Engineers, are very qualified to be given regular Science Research Specialist (SRS) position RERC-22-04 Availability of regular faculty members with engineering and socio-economics background as	RERC-22-APO- 01 Request for conversion/ promotion of existing SRA position to Science Research Specialist (SRS) RERC-22-APO- 02 Recommend faculty members with working knowledge on
														background as affiliate researchers of the Center	RE as affiliate researchers of the Center

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		Internal (Weaknesses)	External (Threats)		weaknesses and threats)		SEV	осс	DET		(Risks)	(Action Plan)	Plan		
		RERC-22-W2 RERC Director scheduled to retire from service on 24 February 2022		RERC-22- W2/W1- R2/R1 Loss of managerial, facilitative and support staff	Reduced operation al efficiency	Director is reporting to office until date of retirement	1	2	1	2 (Low Risk)	RERC- 22-APR- 02 Recomm end new Director	To be implemented	RERC-22-CP- 02 Wait for the Office of the VSU President to designate a new Director of the Center	RERC-22-03 New RERC Director carrying new and innovative ideas	RERC-22-APO- 03 Recommend a new Director with engineering background
		RERC-22-W3 The Center lacks laboratory facilities for the conduct of advanced RE researches in biofuels, bio- energy, and other RE- related technologies	RERC-22- T1 High competition and reduced funding for Research	RERC-22- W3/W4/T1- R3/R4/R1 Limited scope of research and inaccurate and/or incomplete data generated	Minimal research outputs	Maximize utilization of existing laboratory facilities and borrowing required equipment from the other units, as needed	2	4	2	16 (Medium Risk)	RERC- 22-APR- 03 Submit proposal for funding by DBM and other funding agencies for building and equipme nt	For implementati on in the next 3 years	RERC-22-CP- 03 Collaborate with other research Centers and Academic units with existing facilities	RERC-22-O1 The Philippine Government is supporting RDE of RE Technologies through R.A. 9367- The Biofuel Act of 2006 and R.A. 9513-The Renewable Energy Act of 2008	RERC-22-APO- 04 Strengthen collaborations with the Department of Energy (DOE) through collaborative research RERC-22-APO- 05 Submit RE- based research proposals for funding
		RERC-22-W4 The Center lacks portable equipment for field monitoring of installed RE facilities			Minimal research outputs	Maximize utilization of existing laboratory facilities and borrowing needed equipment from the other units as necessary	2	3	3	18 (Medium Risk)	RERC- 22-APR- 04 Request funding for field equipme nt from OVPREI	For implementati on for the next 3 years	RERC-22-CP- 04 Borrow from other units, as needed	RERC-22-05 Opportunity to request laboratory tools and equipment from the university and other external funding agencies	RERC-22-APO- 06 Submit request for the procurement of laboratory tools and equipment to OVPREI

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			RERC-22- T3 Heavy teaching workload of potential affiliate faculty researcher s	RERC-22- T3-R3 Reduced interest in conducting research	Minimal research outputs	Designation of qualified faculty members as study leaders of some RERC researches	2	3	3	18 (Medium Risk)	RERC- 22-APR- 05 Invite qualified faculty members from different Academi c departme nts as affiliate faculty research ers	Two (2) faculty members of the Department of Agricultural and Biosystems Engineering are affiliate faculty researchers of the Center	RERC-22-CP- 05 Recommend more qualified faculty members from the College of Engineering and Technology as affiliate faculty researchers of the Center	RERC-22-06 Promotion of faculty researchers through their publication output RERC-22-07 Existence of a duly accredited international scientific journal (Annals of Tropical Research) and an Institutional Journal (Science and Humanities Journal) in the Visayas State University	RERC-22-APO- 07 Publish more research studies in refereed journal, ATR and SHJ.
			RERC-22- T4 Delayed procureme nt process and processing of financial documents of RDE funds causing delay of project implementa tion	RERC-22- W4-R4 Delay in the completion of the research projects	Delayed impleme ntation of project activities due to delayed delivery of supplies and materials	Constantly follow-up the Procurement Office for the delivery status of the requested goods	2	3	3	18 (Medium Risk)	RERC- 22-APR- 06 Request for project extension to supplem ent the delay in project schedule	To be implemented	RERC-22-CP- 06 Use petty cash advance to purchase small amounts of materials for immediate use while waiting for the requested supplies and materials to arrive	RERC-22-O8 Funding for publication fee in ISI/Scopus Indexed Journal upon request to OVPREI	RERC-22-APO- 08 Submit article for publication to avail the publication incentive from OVPREI
A.2	Utilization of research outputs by the industry or other		RERC-22- T5 Potential intellectual piracy of	RERC-22- T5-R5 Delayed/pr event promotion	Non- utilization of research output	Non- disclosure of details of technology in project	3	3	2	18 (Medium Risk)	RERC- 22-APR- 07 Apply patent for	To be implemented	RERC-22-CP- 07 Pilot-testing of technologies to qualified		

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	beneficiary		other SUCs with similar mandate	of technology		reports					patentabl e technolo gies		stakeholders		
			RERC-22- T6 Typhoons and other weather disturbance s may damage the RE demonstrati on units in the RE Park	RERC-22- T6-R6 Loss/ damage to properties	Cease in the operation of the RE demo unit	Conduct of repair and maintenance of RE demo units	2	2	3	12 (Low Risk)	RERC- 22-APR- 08 Repair and maintena nce of RE Demonst ration units	Existing JO Skilled Worker (for renewal of contract of service) assigned to do the repair and maintenance of RE demonstratio n units	RERC-22-CP- 08 Hire Job Order Skilled Worker to conduct repair and maintenance and other related jobs		
		RERC-22-W5 The Center has no experience in participating trade fairs/exhibits to promote RE technologies		RERC-22- W5-R5 Overtaken by competition	Low adoption and commerc ialization of knowledg e, products, and technolo gies	The Center has established working models of RE technologies thru its Energy Park as showcase prototype	2	3	3	18 (Medium Risk)	RERC- 22-APR- 09 Participat e in RE trade fairs/exhi bits and similar activities	To be implemented	RERC-22-CP- 09 Strengthen the Renewable Energy Park's technology demonstration units with the corresponding operation manuals	RERC-22-09 Several LGUs, NGOs, and private companies are looking for appropriate RE technologies that are viable alternative sources of energy for agri- industrial purposes	RERC-22-APO- 09 Propose collaboration with interested LGUs, NGOs, and private companies.

Vision: Mission:

B. TECHNICAL ADVISORY EXTENSION PROGRAM

#	ACTIVITIES	ISSUE	≣S	RISK	IMPACT (for all	EXISTING CONTROL		RISK SESSM SCOR	IENT	RISK PRIORITY	ACTION PLAN	Current STATUS	Contingency	OPPORTUNITIES	ACTION PLAN (Opportunities)
		Internal (Weaknesses)	External (Threats)		weaknesses and threats)	(for all weaknesses and threats)	SEV	осс	DET	NUMBER	(Risks)	(Action Plan)	Plan		(Оррогиниез)
	Result Area(s):	ment (G3, KRA2)						•	•						
B.1	Partnerships with Local Government Units (LGUs), industries, Non- Government Organizations (NGOs), National Government Agencies (NGAs),	RERC-22-W6 Limited manpower. The Center has no regular research staff, one (1) permanent administrative staff, and SRAs are on Job Order status		RERC-22- W6-R6 Loss of facilitative and support staff	Reduced operation al efficiency		2	2	3	12 (Low Risk)	RERC- 22-APR- 10 Request for plantilla positions		RERC-22-CP- 10 Hire support staff on job order status	RERC-22-010 Presence of faculty members and researchers in VSU with diverse and relevant fields of expertise on RE	RERC-22-APO- 10 Recommend faculty members and researchers with diverse and relevant fields of expertise on RE as affiliate researchers of the Center
	MSMEs and other stakeholders as a result of extension		RERC-22- T7 Constraine d project implementa tion due to severe weather disturbance s hindering the connection between two interested parties	RERC-22- W6/T7- R6/R7 Loss of opportunity for sustained RDE partnership and output disseminati on	Limited to no extension projects or output		2	2	3	12 (Low Risk)	RERC- 22-APR- 11 Prepare alternativ e mode of sustainin g partnersh ip monitorin g and project impleme ntation		RERC-22-CP- 11 Communicate regularly the collaborative partners through online means RERC-22-CP- 12 Create and maintain Webpage and Online Newsletter	RERC-22-011 Emerging development needs on renewable energy and interests of LGUs, industries, NGOs, NGAs, MSME and other stakeholders in this period of pandemic and climate change	RERC-22-APO- 11 Needs assessment of LGUs, NGOs, NGAs, MSMEs, and other stakeholders.
Capal Enhai Comr	nunity Empower	ent (G2, KRA4) if Faculty, Staff an ment (G3, KRA2)	d Students to		ension (GA3										
B.2	Conduct of trainings and provisions of	RERC-22-W7 Limited space for face-to-face		RERC-22- W7/W8- R7/R8	Reduced budget in extension	RE Park showcasing prototype	2	3	3	18 (Low Risk)	RERC- 22-APR- 12	On-going implementati on	RERC-22-CP- 13 Produce short	RERC-22-012 Internet infrastructure of the	RERC-22-APO- 12 Request for

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Comi Enha	nced Capacity o	training RERC-22-W8 No internet connectivity for online trainings and webinars esearch Results (Of Faculty, Staff and rement (G3, KRA2)	d Students to	Hampered effectivene ss of extension service delivery	ension (GA3	demo units of RE technologies					Continue existing face-to- face delivery with innovativ e observan ce of safety health protocols		video on the different RE Technologies found at the Center for dissemination	country is a priority program of the Department of Information and Communications Technology (DICT) RERC-22-O13 VSU is focused on providing Internet connectivity to all its campuses	internet connectivity from the university
B.3	Delivery of extension programs consistent with the SUC's mandate and priority programs	RERC-22-W9 There is no regular research staff in the Center RERC-22-W10 Lack of digital media facilities and equipment	RERC-22- T8 High competition and reduced funding for Extension	RERC-22- W9/W10/T 8- R9/R10/R8 Inability to meet mandated extension service deliverable s	Limited nature and scope of extension services	Operational RE park, an extension program aligned with the VSU's mandate and priority programs	2	2	3	12 (Low Risk)	RERC- 22-APR- 13 Maintain operation of the RE Park	On-going implementati on	RERC-22-CP- 14 Periodic monitoring of the functionality of the RE Park	RERC-22-014 Availability of faculty members and researchers in VSU which can be tapped for extension programs and services	RERC-22-APO- 13 Recommend faculty members and researchers for extension programs and services of the Center

Prepared by:	Reviewed by:		Approved by:
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Date: January 12, 2021	Date:	Representative (QMR) Date:	Extension and Innovation Date:

Vision: Mission: A globally competitive university for science, technology, and environmental conservation.

Development of a highly competitive human resource, cutting-edge scientific knowledge and innovative technologies for sustainable communities and environment.

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