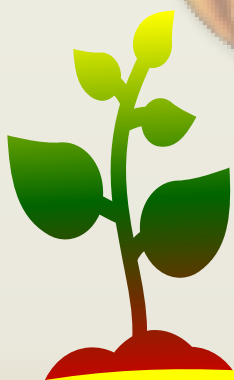


# **BULACAN AGRICULTURAL STATE COLLEGE**

Soon to be Bulacan State Agricultural University (RA 11783)



**SHAPING MINDS, TRANSFORMING LIVES**  
**BASC 2023 SUSTAINABILITY REPORT**

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# I. MESSAGE FROM THE PRESIDENT



**JAMESON H. TAN CESE (SGD)**

SUC PRESIDENT III

We face a planetary emergency. Our future depends on the natural world, but we are neither taking accountability for nor addressing our own destructive impact on the planet as climate change and biodiversity loss accelerate. Urgent and sustained action is required. We can all play a part, from individual staff and students to research groups and departments. Most importantly, BASC itself must show leadership. There is much that has been and is being done that has contributed to the results in this Report.

Looking forward, an enormous challenge in front of us is the reduction in our consumption of, and reliance on, fossil fuels to run the University's operations, especially space heating. This must be a key focus in the immediate years ahead if we are to remain on the correct side of our science-based carbon reduction target. In considering our contribution to sustainability we must also consider how we contribute to wider societal challenges. It is only through ambitious delivery of these actions that we will meet the BASC's mission.

## II. MESSAGE FROM THE VICE PRESIDENTS



### **DR. RONALD REAGAN T. ALONZO**

Vice President, Administration and Finance

At Bulacan Agricultural State College (BASC), sustainability is integral to our institutional mission and values. Through dedicated efforts, we have already started significant strides in environmental stewardship, implementing initiatives that conserve natural resources and minimize our ecological footprint. These efforts include energy efficiency measures, waste reduction strategies, and the promotion of sustainable practices across the campus.

Our commitment to sustainability extends into our academic programs, where we equip students with the knowledge and skills to be responsible environmental stewards. Faculty and students actively engage in research and community-based projects that address key sustainability challenges, contributing to solutions that benefit both local communities and the wider world.

We also prioritize the well-being of our community, promoting initiatives that enhance the physical, mental, and emotional health of our students, faculty, and staff. Our focus on sustainability in administration is reflected in responsible procurement, resource management, and other operational practices designed to foster a more sustainable campus environment.

These achievements would not be possible without the support and collaboration of our partners. Through strong relationships with government agencies, NGOs, and other stakeholders, we continue to advance our sustainability goals, ensuring that BASC remains at the forefront of promoting a sustainable and equitable future.

## II. MESSAGE FROM THE VICE PRESIDENTS



### **DR. CECILIA S. SANTIAGO**

Vice President, Academic Affairs

BASC is presently working towards becoming a full pledged university having an academic community with state-of the art facilities, faculty and staff with positive work values and an effective administrative support system in place. All of this will be fully realized without compromising the pursuit of sustainable development.

The strategic goal of developing into a green academic community will be pursued through (1) Upgrading of physical facilities, (2) implementation of human resource development program.

The College started its advocacy for green initiatives among faculty and staff, students and other stakeholders thru the implementation of effective administrative systems and processes, and implementation of viable resource generation projects.

Furthermore, BASC pursues environmental conservation through One Health initiative particularly by the College of Agriculture and Veterinary Medicine. It is a way to promote environmental health and conservation through the One Health Initiative, educate the Doctor of Veterinary Medicine (DVM) students on their role in environmental health, and foster collaboration in addressing environmental challenges.

This initiative aims to expand knowledge and awareness about One Health within BASC and among local government units in the province of Bulacan.

There is a need for students to transition from passive recipients of knowledge to active architects of change in Environmental Health and Conservation hence, as the VPAA, I have to emphasize the urgency of such a shift.

The College's efforts continue to remind us that even the most daunting challenges can be tackled through consistent and collective action. By taking small steps each day towards environmental healing, we can build a healthier planet and safeguard ourselves from future risks.

As part of the College's move towards university status, continuous efforts were given by the respective Deans and its faculty, thru the affirmative actions of the Office of the President and the Vice President for Academic Affairs (OVPA) respectively.

First, the conduct of Management Review which focused on review of current curriculum, new programs, alignment to industry needs and standards.

Second, output of the conducted management review is the revision of the syllabi in all programs for the inclusion of the Sustainable Development Goals (SDGs) applicable to the diverse subject areas across programs that are now of use effective 1st semester of AY 2024-2025.

Third, the College is linked collaboratively with other institutions working towards the attainment of sustainable development. However, being an academe, BASC will be the leading institution in terms of being a knowledge center for sustainable development. As this position is vigorously pursued as reflected in excellence in all its academic undertakings, the college envisions to achieve international recognition for sustainable development. This will be addressed through (1) attainment of academic excellence, (2) implementation of effective academic systems and processes, and (3) promotion of student welfare.

Aside from instruction, equally important functions of BASC as an academe are research and community engagement. These two functions are given focus by the respective Institutes thru the research and community engagement activities of its faculty and staff as they are concerned with knowledge generation and dissemination.

The activities are being pursued through the following objectives: (1) establishment of a clear framework for research and extension undertakings, (2) improvement of research and development output of the College, (3) improvement of delivery of services of the College, (4) improvement of institutional research and extension capability, and (5) improvement of invention and creative work outputs.

As part of the College's commitment to promoting the physical, mental, and emotional well-being of our students, faculty and staff, various activities were conducted are being conducted and will be conducted.

Continuous conduct of Health and wellness activities for the faculty, staff and students to be able to enhance their well-being and release the possible work stressors.

Appropriate linkage was done between BASC and the National Mental Hospital for appropriate mental health consultations for our studentry.

The Office of Student Affairs and Services (OSAS) is continuously implementing the scheduled activities to the students as part of the OSAS and the Office of the Vice President for Academic Affairs (OVPA) mandate.

## II. MESSAGE FROM THE VICE PRESIDENTS



### **DR. HONEYLET J. NICOLAS**

Vice President, Research Extension,  
Production and Development

The changes brought by climate change and global warming are becoming more palpable and serious, causing disruptions in the livelihood, schooling, and everyday life of communities. More areas have become vulnerable to flooding, extreme heat, and other natural calamities. The people of Bulacan province know these well, having experienced very high heat index in the summer of 2024, and some severe flooding due to typhoon and monsoon rains during the early parts of the rainy season. The local chief executives have decreed work and classes suspensions during these times, in order to ensure the safety and well-being of their constituents.

Indeed, sustainability is no longer just a buzzword but a necessary cause and an imperative strategic thrust, not just for world leaders and national governments, but also to individuals and small communities and organizations. Having more first-hand experiences on the adverse effects of environmental degradation, the Bulacan Agricultural State College and the communities it serves are duty-bound to become sustainability advocates.

It is truly fulfilling to somehow lead BASC's researchers and extension workers in planning and implementing programs, projects, and activities that will help the institution in its sustainability efforts. The Research, Extension, Production, and Development Office values the probable contributions of a research or extension proposal to environmental, economic, and social sustainability. We are mindful about the allocation of resources to RDE initiatives, and we give the biggest support to the projects that can have more positive impact not just to the present, but also to future generations. The REPD Office personnel are also trained to practice environment-friendly habits, such as on the responsible use of electricity and recycling of paper and supplies. We also continuously collaborate with more organizations and agencies that have similar mindset and vision toward a healthier planet and a more sustainable future.

May everyone in BASC become more aware and more committed to sustainability!

# III. UNIVERSITY PROFILE

## BRIEF HISTORY OF BASC

The beginnings of Bulacan Agricultural State College went back to the time when in 1952 the Plaridel Community Agricultural High School with only 100 students was established at Bintog, Plaridel, Bulacan. Soon after, it was renamed Bulacan Provincial Agricultural High School. Due to the nationalization of existing agricultural schools in 1953, under Republic Act 948 it was renamed Bulacan National Agricultural High School (BNAHS). In 1955, Proclamation 163 was issued reserving for the site of the BNAHS around 192.5 hectares of the Buenavista Estate in San Ildefonso, Bulacan. In June 21, 1959, through Republic Act 2416, BNAHS was converted to Bulacan National Agricultural School (BuNAS). Thirty-nine years after, on February 24, 1998, BuNAS was converted as a state college by virtue of Republic Act No. 8548.

Bulacan Agricultural State College remains the first and only state-run higher educational institution of agriculture in Bulacan. For the past 23 years of existence as a state college, it has become an educational anchor for the poor but deserving students in Bulacan and the whole Central Luzon Region. It is one of the 55 out of 106 State Universities and Colleges in the country with Level III status based on CMO No. 09, s. 2019 issued by the Commission on Higher Education.

Three past presidents led the Bulacan Agricultural State College, Dr. Rolando F. Camacho (Dec. 9, 1998- Dec. 8, 2002); Dr. Josie A. Valdez (Dec. 9, 2002-Jan. 31, 2011) and Dr. Gerardo Mendoza (Feb. 1, 2011-Jan. 31, 2019) before Dr. Jameson H. Tan assumed as the 4th BASC President on February 1, 2019.

At present, the College has three campuses, and two extension classes in three of the sixth legislative districts of Bulacan. The Main Campus is located in Brgy. Pinaod, San Ildefonso with the College of Agriculture Campus at Brgy. Poblacion, San Ildefonso while the DRT Campus, established in 2005 is located at Brgy. Sapang Bulak, Doña Remedios Trinidad (3rd District). The offering of extension programs under Memorandum of Agreement are located at BTVC-BNAHS, Brgy. Pulong Bayabas, Balagtas (5th District) and DepEd Bulacan-FFHNAS, Brgy. Guyong, Sta. Maria (6th District).

Through the initiative and leadership of Congresswoman Lorna C. Silverio, House Bill 8111, "An Act converting BASC into Bulacan State Agricultural University" successfully passed at the House of Representatives and has been approved in the First Reading at Senate of the Philippines under Senate Bill 2106.

The Bulacan Agricultural State College has held on tight to its commitment made several years ago. Unprecedented growth in all its programs has been paying off especially in terms of educational benefits to countless students and families in the region. As it undergoes the process of transforming into a state university, BASC remains committed to offer the best that the students could possibly get in a truly accessible, relevant and quality education, hence, the motto: "Shaping Minds, Transforming Lives".



# III. UNIVERSITY PROFILE

## VISION

A globally engaged higher education institution of agriculture and allied disciplines.

## MISSION

Provide excellent instruction, conduct relevant research and foster community engagement that produce highly competent graduates necessary for the development of the country.

## CORE VALUES

The four (4) core values institutionalized as a way of the BASC community are:

R - Relevance

I - Integrity

T - Truth

E - Excellence

# IV. ABOUT BASC

## A. Curricular Program Offering

The Bulacan Agricultural State Colleges offers the following curricular programs.

### **BASC Main Campus – Pinaod**

Institute of Arts and Sciences

- Bachelor of Science in Development Communication

Institute of Engineering and Applied Technology

- Bachelor of Science in Geodetic Engineering
- Bachelor of Science in Agricultural and Biosystems Engineering
- Bachelor of Science in Information Technology
- Bachelor of Science in Food Technology

Institute of Education

- Doctor of Philosophy in Educational Management
- Master of Arts in Education
  - o Major: Educational Management, Science
- Bachelor of Secondary Education
  - o Major: English, Science
- Bachelor of Elementary Education

Institute of Management

- Doctor of Philosophy in Business Administration (PUP Consortium)
- Master of Arts in Business Administration (PUP Consortium)
- Bachelor of Science in Business Administration
  - o Major: Marketing Management
- Bachelor of Science in Agribusiness
- Bachelor of Science in Hospitality Management
  - o Major: Hotel and Restaurant Management

# IV. ABOUT BASC

## **BASC – College of Agriculture and Veterinary Medicine Campus – Poblacion**

- Doctor of Philosophy in Agricultural Sciences
  - o Major: Animal Science, Horticulture
- Master of Science in Agriculture
  - o Major: Animal Science, Agricultural Extension, Horticulture
- Doctor of Veterinary Medicine
- Bachelor of Science in Agriculture
  - Major: Animal Science, Crop Science, Horticulture, Agricultural Extension, Agricultural Economics

## **BASC – Institute of Environmental Sciences and Forestry - DRT**

- Bachelor of Science in Agroforestry
- Bachelor of Elementary Education

# IV. ABOUT BASC

## B. Accreditations

### Level IV Re-accredited

Bachelor of Science in Agribusiness

### Level III Re-accredited

Bachelor of Science in Agriculture

Bachelor of Science in Information Technology

### Level II Re-accredited

Bachelor of Science in Agricultural and Biosystems Engineering

Bachelor of Science in Food Technology

Bachelor of Science in Hospitality Management

Master of Arts in Education

Master of Science in Agriculture

Bachelor of Science in Business Administration

Bachelor of Elementary Education

Bachelor of Secondary Education

### Level II Accredited

Bachelor of Science in Geodetic Engineering

Bachelor of Science in Agroforestry

### Candidate

Bachelor of Elementary Education (DRT Campus)

## C. ISO

ISO 9001:2015 Certified by Bureau Veritas on the Provision of Tertiary Education and Advanced Education, including Support to Operations (Instruction, Research, Extension, Production and Development) and General Administrative and Finance Services

# IV. ABOUT BASC

## D. Student Population 2021-2023 by gender, graduate, undergraduate

### BASC Main Campus

Program	2021		TOTAL	2022		TOTAL	2023		TOTAL
	Male	Female		Male	Female		Male	Female	
<b>Graduate Program</b>									
PhD Dev't Education	10	30	40	3	11	14	1	3	4
PhD Ed Mgt	5	22	27	26	64	90	40	84	124
MAEd Ed Mgt	107	391	498	175	324	499	95	313	408
MAEd Science	35	69	104	35	76	111	30	67	97
MAED Math	2	3	5	0	1	1	0	2	2
<b>Undergraduate Program</b>									
BEED	99	498	597	99	547	646	93	521	614
BSED English	110	562	672	156	685	841	176	695	871
BSED Science	116	334	450	131	382	513	103	322	425
BSABEn	210	143	353	306	208	514	273	214	487
BSFT	34	110	144	54	163	217	68	161	229
BSGE	169	159	328	244	223	467	304	249	553
BSIT	441	244	685	592	313	905	772	366	1138
BSAB	-	-	0	-	-	0	104	130	234
BSAM	424	609	1033	481	705	1186	434	570	1004
BSBA	384	982	1366	462	1231	1693	466	1254	1720
BSHM	571	951	1522	696	1264	1960	733	1331	2064
LHS	79	155	234	41	94	135	12	30	42
TOTAL	2796	5262	8058	3501	6291	9792	3704	6312	10016
GRAND TOTAL	8058			9792			10016		

# IV. ABOUT BASC

## BASC CAVM Campus

Program	2021		TOTAL	2022		TOTAL	2023		TOTAL
	Male	Female		Male	Female		Male	Female	
<b>Graduate Program</b>									
PhD An Sci	0	3	3	0	3	3	1	3	4
PhD Horticulture	5	2	7	6	1	7	5	1	6
MSA Ag Ext	41	47	88	38	45	83	28	29	57
MSA An. Sci.	13	16	29	25	17	42	13	19	32
MSA Horticulture	10	11	21	7	9	16	5	5	10
<b>Undergraduate Program</b>									
BSA	1	49	50	3	0	3	3	0	3
BSA An Scie	1170	533	1703	1451	674	2125	1356	604	1960
BSA Crop Sci	343	206	549	272	190	462	169	109	278
BSA Horticulture	214	155	369	203	160	363	131	94	225
BSA Ag. Ext.	-	-	0	40	19	59	61	21	82
BSA Agronomy	-	-	0	74	40	114	128	67	195
BSA CrSC Horti.	-	-	0	71	37	108	119	70	189
BSA (CAS)	-	-	0	-	-	0	359	188	547
DVM	84	133	217	127	187	314	124	226	350
TOTAL	1881	1155	3036	2317	1382	3699	2502	1436	3938
GRAND TOTAL	3036			3699			3938		3938

## BASC DRT Campus

Program	2021		TOTAL	2022		TOTAL	2023		TOTAL
	Male	Female		Male	Female		Male	Female	
<b>Undergraduate Program</b>									
BEED	32	157	189	41	170	211	44	159	203
BSAF	75	81	156	104	127	231	170	178	348
TOTAL	107	238	345	145	297	442	214	337	551
GRAND TOTAL	345			442			551		

# IV. ABOUT BASC

## E. Faculty and Employee Profile

### Teaching

Tenure	2021		TOTAL	2022		TOTAL	2023		TOTAL
	Male	Female		Male	Female		Male	Female	
Permanent/ Plantilla	30	67	97	42	66	108	39	61	100
Temporary	16	25	41	20	20	40	19	18	37
Contract of Service	30	41	71	52	54	106	47	67	114
Total	76	133	209	114	140	254	105	146	251
Grand total	209			254			251		

### Non-Teaching

Tenure	2021		TOTAL	2022		TOTAL	2023		TOTAL
	Male	Female		Male	Female		Male	Female	
Plantilla	27	21	48	25	22	47	26	40	66
Job Order	77	80	157	95	88	183	108	74	182
Total	104	101	205	120	110	230	134	114	248
Grand total	205			230			248		

# V. KEY SUSTAINABILITY EFFORTS

The College has taken steps to incorporate sustainability into its education, research, community engagement, administrative practices, and environmental initiatives.

## A. Sustainability Principles and Policy Statements

The BASC has made a commitment to deliver its sustainable targets. It is committed to upholding the highest standards of governance and ethics, and fully subscribe to the key principles of sustainable development, namely, inclusivity, integrity, stewardship, and transparency. In addition to complying with applicable legal requirements, we will strive to continually improve our sustainability performance.

Mindful of the kind of future we are leaving for the next generation, the BASC shall instill sustainability into the many aspects of college life, on our campuses and in the larger community of which we are part. Sustainability shall find its way into teaching and learning, research, community services, and the operations that support them.

Together, these commitments combine into a vision for sustainability where:

- research, teaching and action for sustainability are actively encouraged and supported
- faculty members are attracted to the BASC to research, teach and practice sustainability students are attracted to the BASC to learn, research and contribute to sustainability
- risks are minimized by providing a safe and healthy environment for faculty, staff and students in accordance with the BASC's policies
- collaborative approach to sustainable management of BASC resources is adopted
- ideas and concepts around sustainability are germinated in the College and taken in a broader community.



# V. KEY SUSTAINABILITY EFFORTS

## B. Energy

Bulacan Agricultural State College (BASC) has undertaken several initiatives to promote energy efficiency and sustainability across its campuses. The College's focus on energy management is evident through its strategic shift to LED lighting, which reduces energy consumption and operational costs. BASC is also deploying sustainable technologies, such as solar panels and energy-efficient HVAC systems, as well as planning the implementation of Smart Building technologies, including a Building Management System (BMS), to monitor and manage mechanical and electrical systems efficiently.

Solar panels already supply electricity to six automated smart greenhouses across two campuses, reducing reliance on traditional energy sources. Windmills at the College of Agriculture campus is also used to pump water for greenhouse irrigation, showcasing sustainable agricultural practices. In addition, the College promotes natural ventilation and daylighting through the use of windows in classrooms, laboratories, and offices, reinforcing green building practices.

Despite these efforts, BASC's electricity consumption has shown significant fluctuations in recent years. From 2019 to 2021, electricity usage saw a notable decline, with a 32.5% reduction in 2020 and an additional 13.5% drop in 2021. This was largely influenced by energy conservation measures, operational changes, and the reduced activity during the COVID-19 pandemic. However, in 2022, there was a sharp increase in energy consumption, with a 191.5% rise from 2021, as full operations resumed post-pandemic, alongside the introduction of energy-demanding equipment and the expansion of campus activities. The upward trend continued in 2023, with a further 23.5% increase, reflecting BASC's ongoing growth and higher operational demands.

These fluctuations in energy consumption underscore the importance of BASC's continued focus on energy management and sustainable practices as the institution expands. By combining renewable energy initiatives, such as solar panels and windmills, with energy-efficient technologies and systems, BASC remains committed to advancing environmental stewardship while addressing its growing energy needs.

## C. Water

Bulacan Agricultural State College (BASC) is advancing its water sustainability efforts through several key initiatives. The construction of a 200-cubic-meter elevated water tank and the installation of 20 water tanks across its three campuses ensure a reliable water supply during shortages, conserving 25% of overall usage. A water recycling program currently recycles 10% of campus water, and plans are in place to build rainwater catchment systems for all buildings to reduce reliance on the main supply.

# V. KEY SUSTAINABILITY EFFORTS

In the greenhouses, a closed-loop system efficiently recycles water for hydroponic irrigation. BASC also uses rainwater harvesting for non-potable purposes, such as flushing comfort rooms, further decreasing its dependence on municipal water sources.

Water-efficient plumbing fixtures, including dual-flush toilets, are being implemented to conserve water and reduce costs, with plans to expand their use in future infrastructure projects. Although BASC does not yet have a water treatment facility, its development is a priority to enhance sustainability.

Additionally, strict waste management policies are enforced, particularly in laboratories, to prevent water pollution by ensuring proper disposal of hazardous materials. These initiatives underscore BASC's commitment to responsible water management and sustainability.

## D. Waste

Bulacan Agricultural State College (BASC) has implemented a comprehensive 3R (Reduce, Reuse, Recycle) strategy, with 50% of the program in place across its campuses. This initiative supports environmental sustainability by reducing waste and promoting responsible waste management. A plastic bottle recycling program is also in effect, significantly decreasing landfill waste while raising awareness among students and staff about the importance of recycling.

The College collaborates with third-party recycling services to ensure efficient collection and processing of recyclables. BASC also maintains proper waste disposal through designated bins for different types of waste, which are then collected and transferred to municipal waste collectors.

Additionally, BASC has two key initiatives aimed at reducing paper and plastic use. These include promoting double-sided printing to cut paper waste and encouraging the use of tumblers and mugs instead of disposable cups to minimize plastic and paper waste. Both initiatives engage students and staff in promoting sustainability on campus.

BASC also has a partial sewage treatment system. Human waste from comfort rooms is safely disposed of in septic tanks, cleaned by third-party contractors, while waste from food preparation and offices goes untreated into municipal waterways.

These initiatives demonstrate BASC's commitment to environmental sustainability and responsible resource management.

# V. KEY SUSTAINABILITY EFFORTS

## E. Plants and Animals

The college's animal and crop production projects are integral to its sustainability efforts. The animal production team, comprising veterinarians, agriculturalists, and animal caretakers, manages a diverse array of livestock, including cattle, horses, sheep, goats, rabbits, poultry, and swine. These animals are raised in a sustainable manner, with practices such as grazing, feeding, watering, breeding, health monitoring, and meat processing. The college emphasizes sustainable practices like vermicomposting and biogas production to reduce environmental impact and promote resource efficiency.

Similarly, the crop production team, consisting of agriculturalists, horticulturists, and crop caretakers, cultivates a wide range of crops, including vegetables, fruits, forest trees, grains, and ornamentals. Sustainable agriculture practices are implemented throughout the crop production process, from land preparation and planting to irrigation, fertilization, pest control, and harvesting. Vermicomposting, biogas production, and waste recycling are key strategies employed to minimize environmental impact and promote sustainable practices.

In addition to these agricultural endeavors, the college actively engages in caring for stray animals. By providing feeding, vaccinations, and spaying/neutering services, the college contributes to the well-being of animals in the community and demonstrates its commitment to animal welfare.

## F. Climate Change

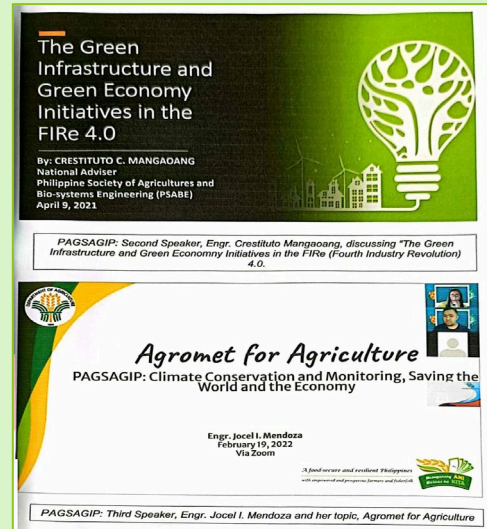
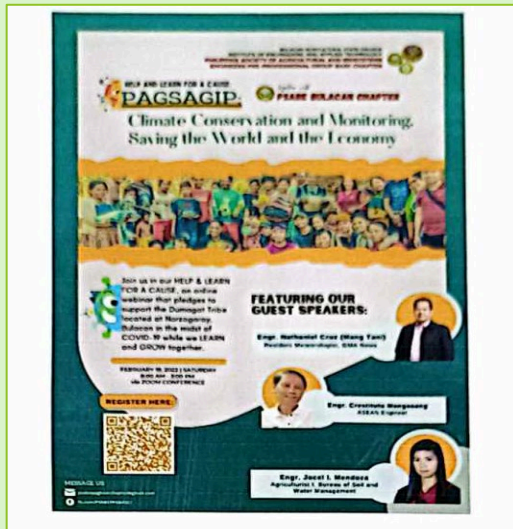
Activities to raise awareness about climate change have been regularly conducted, including tree planting, clean-up drives, and outreach programs where plants are distributed to the community. These initiatives aim to encourage community participation in combating climate change.

# V. KEY SUSTAINABILITY EFFORTS



The Institute of Education Student Council (IEdSC) in collaboration with the English Club, Kristiyanong Kabataan para sa Bayan (KKB), League of Young Scientists (LYS), Samahan ng Mag-aaral sa Agham Panipunan (SAMAPA), Science, Technology, Environment, and Mathematics Society (STEMS), and The Overcomer's Club had successfully conducted the first-ever Environmental Awareness Campaign with the theme, "Nurture Nature for a Sustainable Future: A Collaborative Environmental Awareness Campaign\*" on March 28 - May 06, 2022. The said collaborative activity was a month-long campaign in the pursuit of promoting Sustainable Environment amidst climate crisis that has been drastically deteriorating as time ages. Furthermore, this collaborative movement is an avenue for ourselves to be informed about the status of our planet, and more importantly, of the simplest ways and smallest steps we could do to save our planet from huge destruction.

# V. KEY SUSTAINABILITY EFFORTS



The Philippine Society of Agricultural and Biosystems Engineers Pre - Professional Group Chapter's Pagsagip, is a webinar for a cause that involves a lot of big names in both the industry and the field of Agricultural and Biosystems Engineering. "Pagsagip: Climate Conservation and Monitoring, Saving the World and the Economy\* was held last 1st day of February 2022. The webinar was focused on one of the world's most pressing issues: climate change, its consequences, and other monitoring tools that individuals can use to track the occurrence of our weather and climate. The PSABE PG BASC Chapter invited Mr. Nathaniel "Mang Tani" Cruz, resident meteorologist of GMA News and Public Affairs.

# V. KEY SUSTAINABILITY EFFORTS

## G. BASC Community

### I. Students

At Bulacan Agricultural State College (BASC), the integration of sustainability into various academic programs reflects the institution's commitment to fostering environmental stewardship and social responsibility across disciplines. Each course incorporates lessons that prepare students to address the growing challenges of sustainability in their respective fields.

Sustainability at BASC is not just about environmental protection; it encompasses social and economic dimensions as well. Students engage in discussions about sustainable business models, corporate social responsibility, and ethical leadership, ensuring that they understand the need for economic systems that operate in harmony with the planet. They are introduced to innovative approaches that drive efficiency and reduce the carbon footprint in industries such as agriculture, engineering, technology, and business. Whether it is through sustainable farming practices, energy-efficient technologies, or green business strategies, students are prepared to make a positive impact in their professional careers.

Community engagement also plays a critical role in the sustainability education at BASC. Students are encouraged to participate in projects that promote environmental stewardship and resilience, both on campus and within the wider community. These initiatives, whether focused on disaster risk reduction, climate action, or natural resource conservation, cultivate a sense of responsibility and collective action toward achieving a sustainable future.

Through research and innovation, BASC continues to contribute to the global conversation on sustainability. Students and faculty work together on projects that address pressing issues such as food security, water management, and climate change adaptation, ensuring that the institution remains at the forefront of sustainable development in the agricultural and environmental sectors.

By instilling sustainability, BASC shapes future leaders who are equipped not only with technical expertise but also with the vision and commitment to create a more sustainable and equitable world. In every field, students learn that sustainability is not just an add-on; it is a vital, integrated part of the solutions needed to ensure a thriving future for both people and the planet.

# V. KEY SUSTAINABILITY EFFORTS

## II. Faculty

Bulacan Agricultural State College has taken significant strides towards fostering a sustainable and healthy learning environment. Central to this effort is a series of health awareness seminars designed to educate and empower both students and staff. These seminars cover a range of topics, including mental health and physical fitness ensuring that the college community is informed and proactive about their health and well-being.

In addition to health initiatives, the college has implemented Faculty scholarship programs aimed at enhancing the skills and knowledge of faculty. These policies include professional development workshops, continuing education opportunities, and access to cutting-edge educational resources. By prioritizing continuous learning, the college ensures that its members are equipped with the tools and knowledge necessary to adapt and thrive in an ever-evolving academic and professional landscape.

Moreover, the college enjoys numerous benefits provided by the government, which bolster its sustainability efforts. Government support includes funding for research initiatives, scholarships for students, and grants for infrastructure development.

The established faculty and employee union at Bulacan Agricultural State College also plays a pivotal role in promoting a sustainable work environment. The union advocates for fair labor practices, provides a platform for employee concerns, and negotiates for benefits that improve the overall quality of life for its members.

Through these efforts, the college create a robust framework that not only promotes individual well-being but also ensures the long-term sustainability of the institution.

# V. KEY SUSTAINABILITY EFFORTS

## III. Community Engagement

Bulacan Agricultural State College (BASC) significantly contributes to the local economy through various initiatives, including providing quality education that equips students with practical skills relevant to local industries, thereby producing a skilled workforce. The college conducts research focused on sustainable agricultural practices, offering innovative solutions that local farmers and businesses can adopt to improve efficiency and competitiveness. Through extension services, BASC provides training and technical assistance to enhance agricultural practices and productivity in the community. Additionally, the college fosters entrepreneurship among students and local residents, encouraging the establishment of businesses that create jobs and stimulate economic growth. Collaborating with local government units and organizations, BASC engages in community development projects addressing food security and environmental conservation. Its programs promote economic diversification in agribusiness and hospitality management, reducing reliance on traditional agricultural practices and opening new avenues for income generation. By partnering with local businesses and farmers' associations, the college enhances agricultural productivity and market access while hosting cultural and educational events that attract visitors and boost local tourism. Through these comprehensive efforts, BASC serves as a catalyst for economic growth, fostering resilience and prosperity in the local community.



The College of Agriculture Campus Student Council give a way seedling for backyard farming with the help of East West Farm Ready to the future leaders of Bulacan Agricultural State College during the Leadership training.



# V. KEY SUSTAINABILITY EFFORTS

## H. Conducted Researches relevant to Sustainability from 2021-2023

Number of Completed Researches relevant to Sustainability	Year
21	2021
28	2022
29	2023

## I. Sustainability community services project organized and conducted

Number of Sustainability community services project organized and conducted	Year
22	2021
31	2022
27	2023

## J. Inclusivity

Bulacan Agricultural State College (BASC) is steadfast in its commitment to inclusivity and sustainability, understanding that social equity and environmental sustainability go hand in hand.

As a college that embraces inclusivity, everyone within the BASC community is treated with fairness and respect. The campus is equipped with ramps and other accessibility features for individuals with disabilities, ensuring that they can navigate the environment with ease. By creating an inclusive atmosphere, BASC ensures that every individual, regardless of their physical capabilities, can fully participate in academic and social activities, fostering a sense of belonging and empowerment.

Gender inclusivity is a cornerstone of BASC's ethos. The college actively fights discrimination against all genders by fostering an environment where everyone, regardless of their gender identity, is respected and valued. The establishment of an organization dedicated to raising awareness and embracing gender equality serves as a testament to this commitment. This organization works tirelessly to educate the community about gender issues, support those facing discrimination, and promote equal opportunities for all.

# V. KEY SUSTAINABILITY EFFORTS

Moreover, BASC is deeply committed to the inclusion and upliftment of Indigenous communities. Individuals from Indigenous backgrounds are given equal treatment and recognized for their unique contributions to the college community. By highlighting their importance, BASC hopes to inspire future generations from these communities to pursue growth and development. This inclusive approach not only enriches the cultural fabric of the college but also ensures that sustainable practices are informed by diverse perspectives and traditional knowledge.

In integrating these principles of inclusivity, BASC creates a robust and equitable framework that supports sustainable development. By ensuring that every member of the community is valued and has equal opportunities, the college fosters a culture of mutual respect and cooperation. This, in turn, enhances the institution's ability to implement and sustain effective environmental and social initiatives, ultimately contributing to a more just and sustainable future for all.

## K. Safety

Bulacan Agricultural State College (BASC) takes a comprehensive approach to ensuring security, which is integral to its sustainability goals. The college ensures the environment is safe from unexpected threats both within and outside its vicinity through various measures.

The General Services, Security, and Transportation unit is dedicated to the safety of faculty, employees, and students. Regular patrols and stationed security personnel maintain a visible presence, deterring potential threats and swiftly addressing any incidents. CCTV systems provide effective monitoring, enhancing campus safety and allowing sustainability projects to proceed without interruption.

Security also extends to sustainability through the integration of eco-friendly practices. For instance, security lighting around campus utilizes energy-efficient LED lights. These efforts reflect BASC's commitment to reducing its environmental footprint even within its security operations.

In addition to physical security measures, BASC also conducts training programs on fire safety and emergency preparedness. These trainings equip faculty, staff, and students with the knowledge and skills necessary to respond effectively to emergencies, such as fires, natural disasters, or security threats.

In creating a secure and prepared environment, BASC supports the well-being of its community, which is crucial for the success of its sustainability goals. A safe campus fosters an atmosphere where innovative and impactful sustainability initiatives can flourish, ultimately contributing to a more sustainable future for all.

# V. KEY SUSTAINABILITY EFFORTS

## L. Finances

When it comes to finances, in accordance to the R.A. 11783 - An Act Converting The Bulacan Agricultural State College In The Municipality Of San Ildefonso, Province Of Bulacan, Into A State University, To Be Known As The Bulacan State Agricultural University, And Appropriating Funds Therefor, which states that, any income generated by the BSAU from tuition fees and other charges, as well as from the operation of auxiliary services and land grants, shall be retained by the BSAU and may be disbursed by the Board for instruction, research, extension services or other programs and projects of the BSAU: Provided, That all fiduciary fees shall be disbursed for the specific purposes for which these are collected. Hence are guided by the following principles:

- All income of SUCs from tuition fees and other necessary charges such as: matriculation fees, graduation fees, laboratory fees, medical and dental fees, library fees, athletic fees and other similar fees shall be deposited in an AGDB and constituted as STF. All interests that shall accrue therefrom shall form part of the same Fund.
- All fiduciary fees shall be disbursed for the specific purposes for which they are collected.
- The STF shall be used to augment the maintenance and other operating expenses and capital outlays of the college and to pay authorized allowances and fringe benefits to teachers and students who render services to the school.
- A special budget for the utilization of the STF, supported by a Certification from the Chief Accountant that sufficient income had been realized, collected and deposited with an AGDB shall be approved by the (BOR/T) of the University/College
- The approved special budget shall be the basis of the Chief Accountant in recording appropriations and allotments.
- A copy of the approved special budget shall be furnished the DBM and the Accountancy Office, COA within ten days after approval.
- Any balance of allotments at the end of the year shall be reverted to the Cumulative Results of Operations-Unappropriated (CROU)/ Operating Surplus.

When it comes to procurement, BASC has implemented several practices to align with its sustainable procurement policies. The college has developed guidelines to adopt green procurement standards, ensuring that products such as paper towels, toilet paper, and printer paper are made with recycled materials. BASC incorporates an assessment of the environmental impact of purchases throughout their life-cycle, encouraging the use of producers and suppliers who follow environmentally responsible practices. Procurement specifications and contract language are written to ensure contractors, suppliers, and college departments use resources sustainably. Staff members are educated and monitored on sustainable purchasing procedures.

# V. KEY SUSTAINABILITY EFFORTS

Additionally, BASC has established a consumption reporting system to track the use of materials supplied. This ensures that all materials are used efficiently and not wasted, providing transparency and accountability in resource management. The college also assesses the sustainable impact of all purchases, considering raw materials, manufacturing, distribution, use, and disposal, and evaluates suppliers based on their sustainable practices.

These practices demonstrate BASC's commitment to sustainable procurement, ensuring that the college's operations contribute positively to environmental conservation and sustainability.

# VI. FUTURE PLANS AND TARGETS

Bulacan Agricultural State College (BASC) soon to be Bulacan State Agricultural University (BSAU) envisions a future where sustainability is deeply embedded in all aspects of its operations, academics, and community engagement. The college aims to strengthen its role as a leader in sustainable practices, driving innovations that contribute to environmental, social, and economic well-being.

BASC plans to enhance its green infrastructure by developing energy-efficient buildings, installing solar power systems, and implementing rainwater harvesting. These projects are designed to reduce the campus's carbon footprint and serve as a model for sustainable development. The college also aims to integrate sustainability into its curriculum, ensuring that all students graduate with a comprehensive understanding of sustainable practices. This includes creating new courses, seminars, and research opportunities addressing critical issues such as climate change, biodiversity conservation, and sustainable agriculture.

In the realm of research and innovation, BASC will continue to support cutting-edge studies focusing on sustainable agriculture, renewable energy, and waste management, aiming to develop solutions that can be applied both on and off-campus. The college also plans to strengthen its partnerships with local and international organizations, fostering collaborative research, knowledge-sharing, and community projects to address sustainability challenges.

The college is committed to sustainable procurement by adopting green procurement standards and prioritizing environmentally friendly products. A comprehensive waste management plan will be implemented to reduce waste and promote recycling and composting. Energy and water conservation measures will be bolstered by upgrading to energy-efficient systems, promoting water-saving technologies, and encouraging conservation behavior among students and staff.

Transportation initiatives at BASC will focus on reducing the carbon footprint by promoting biking, improving public transportation access, and encouraging the use of electric vehicles. The college will continue to invest in health and wellness programs that support physical and mental well-being, recognizing the importance of a healthy community in achieving sustainability goals. This includes fitness programs, mental health support services, and wellness workshops.

BASC also plans to promote sustainable food practices by sourcing local and organic produce, reducing food waste, and educating the campus community about sustainable eating habits. Additionally, the college will actively advocate for sustainability policies at local, regional, and national levels, participating in networks and influencing policy development to foster broader environmental change.

By pursuing these ambitious plans, BASC aims to become a leader in sustainability, demonstrating its commitment to creating a greener, healthier, and more sustainable future for all.

# VII. BASC HYMN

## AWIT NG BASC

*Titik: Dr. Jose M. Ignacio*

*Musika: Dr. Augusto Miranda*

Pambansang Dalubhasaang Pansakahan

Hiyas na sumilay sa dibdib ng Bulacan

Kaakbay ang karunungan sa kaunlaran

Mithii'y malinang malikhaing isipan

Baya'y inasam ang iyong kandili

Bagong kaalaman sa kabataa'y ihasik

Murang diwa'y nilinang sa baying iwi

Kabundukan kaparangan tanging saksi

KORO:

Sintang Dalubhasaan sa iyong paanan

Handog yaring puso, diwa't kalooban

Gawad mong biyaya, ito'y aming iingatan

Nang 'yong pamana'y tamasahin habang buhay



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