SDG
07
AFFORDABLE AND CLEAN ENERGY

EVIDENCE DOCUMENT | INDICATOR 7.4.1

Programmes for the local community on energy efficiency and clean energy

METRIC 7.4 Energy and the community

REFERENCE YEAR	COVERAGE	DATE PREPARED
Delivered in 2025	**Karachi and Islamabad; external participants and partners**	**5 November 2026**

ISSUING OFFICE	EVIDENCE ID
Directorate of Quality Assurance, Head Office	**E-07-7.4.1**

THE SIR 2027 REQUIREMENT

Does your university as a body provide programmes for local community to learn about importance of energy efficiency and clean energy?

01 Statement of Evidence

Bahria University's direct answer to the requirement

Yes. Bahria University as a body provides programmes through which people beyond its own students learn about energy efficiency and clean energy, under policies that commit it to engage local communities. From 19 to 23 August 2024 the Department of Maritime Sciences at the Karachi campus offered an International Certificate Course on Energy Efficiency Measures for Ports and Shipping Industry, led by an expert from the Amsterdam University of Applied Sciences and open to maritime professionals and to students and faculty of other institutions. On 27 November 2025 the Karachi campus held an Awareness Session on Energy Consumption and Sustainability under its Community Support Program. The National Institute of Maritime Affairs (NIMA), which operates under the auspices of the University, hosted with it the 4th International Maritime Symposium in October 2024, which addressed clean energy and offshore wind and tidal power, and in 2025 held a webinar on the IMO Net-Zero Framework for shipping, sessions covering renewable energy for visiting university students and naval workshop participants, and the International Maritime Conference, at which offshore energy was highlighted. The Community Support Policy requires every undergraduate to serve the community for 40 hours and lists energy conservation and the use of alternate resources among the causes promoted. The Sustainability and Climate Action Policy (BU-SCAP-2025), effective 7 December 2025 and approved by the Rector, commits the University to engage local communities in its sustainability initiatives, support climate education in schools and take part in national climate awareness campaigns (para 7.2), and assigns community engagement and training to campus sustainability managers and the Center of Research Excellence in Climate Finance (CORE-CF) (paras 4.3 and 4.4).

02 Evidence and Activity Record

Dated facts and records that substantiate the statement

Sections 1 to 5 present the programmes delivered: the International Certificate Course on energy efficiency of August 2024, the Awareness Session on Energy Consumption and Sustainability of November 2025, the 4th International Maritime Symposium of October 2024, the programmes of the National Institute of Maritime Affairs (NIMA) in 2025, and the Green Tech event held with the Pakistan Red Crescent Society, Sindh, in October 2025, each with its record, public report and photographs. Section 6 presents the training and capacity-building services of CORE-CF on its public webpage. Sections 7 and 8 present the Sustainability and Climate Action Policy, from its cover through its complete table of contents, and the Community Support Policy, from its cover, each followed by the pages cited, and Section 9 summarises the evidence against each element of the requirement.

TABLE 1 Programmes for the local community on energy efficiency and clean energy, delivered in 2025

No.	Element	Record	Provision	Date	Evidence
1	Energy efficiency course	International Certificate Course, Energy Efficiency Measures for Ports and Shipping Industry; resource person from the Amsterdam University of Applied Sciences	Maritime professionals; students and faculty of other institutions; BU students and alumni	19 to 23 Aug 2024	Department of Maritime Sciences, Karachi campus; Section 1
2	Awareness session	Awareness Session on Energy Consumption and Sustainability: responsible energy use and sustainable practices	Session at the Karachi campus	27 Nov 2025	Department of Management Studies and Community Support Program; Section 2
3	Public symposium	4th International Maritime Symposium: clean energy initiatives; renewable energy from offshore wind and tidal power; NIMA report on green shipping technologies	Diplomats, policymakers, academics and maritime professionals	Oct 2024	NIMA with Bahria University; public report; Section 3
4	NIMA programmes 2025	Webinar on the IMO Net-Zero Framework for shipping; blue economy sessions covering renewable energy for visiting university students and naval workshop participants; International Maritime Conference with offshore energy; report on green shipping technologies	Maritime stakeholders, students of other universities, workshop participants, public conference	30 Apr to 2 Dec 2025	NIMA website; Section 4

No.	Element	Record	Provision	Date	Evidence
5	Community partner event	Green Tech for a Climate-Resilient Pakistan: role of artificial intelligence in energy, agriculture and disaster management	With the Pakistan Red Crescent Society, Sindh, under the CACRA Project	10 Oct 2025	Partner website; Section 5
6	Capacity building	Seminars, trainings, workshops and knowledge sessions on climate finance, sustainability, carbon management, ESG and climate readiness	Organisational leaders, professionals and academia	Ongoing	CORE-CF webpage; Section 6
7	Policy commitment	Engage local communities in campus sustainability initiatives; support climate education in schools; take part in national climate awareness campaigns; partner with NGOs	University-wide	Effective 7 Dec 2025	SCAP, para 7.2; Section 7
8	Responsibility	Campus sustainability managers engage local communities; CORE-CF responsible for capacity building and training programmes; professional development and executive education	All campuses	Effective 7 Dec 2025	SCAP, paras 4.3, 4.4 and 6.1
9	Student community service	Every undergraduate serves the community for 40 hours; causes promoted include energy conservation and use of alternate resources, and sustainable development including energy; community defined as organisations around BU campuses	All undergraduate programmes	In force; Feb 2016	Community Support Policy; Section 8

1. International Certificate Course: Energy Efficiency Measures for Ports and Shipping Industry

From 19 to 23 August 2024 the Department of Maritime Sciences at the Karachi campus, in collaboration with the International Office, offered an International Certificate Course on Energy Efficiency Measures for Ports and Shipping Industry. The course was led by Mr Hubert Schaafsma, Head of the Nautical College at the Amsterdam University of Applied Sciences, Netherlands, and combined academic discussions, industry case studies and collaborative learning to build participants' understanding of energy efficiency in the maritime sector.

The course was open beyond the University. Its announcement invited three groups of participants, each at its own registration rate: the University's own students, alumni and faculty; students and faculty of other institutions; and maritime professionals, with registration by 13 August 2024. The University record states that it was designed for students, alumni and maritime professionals (Figures 1 and 2).

1. International Certificate Course (continued): University record

INTERNATIONAL SUMMER SCHOOL PROGRAMMES BY BAHRIA BUSINESS SCHOOL ISLAMABAD AND SCHOOL OF LAW (AUGUST 19 – AUGUST 23, 2024)

Bahria University Karachi Campus (BUKC), in collaboration with the International Office, organized an International Summer School programme from 19 to 23 August 2024, focusing on "Energy Efficiency Measures for Ports and Shipping Industry". The initiative aimed to provide students, alumni, and maritime professionals with an immersive academic and practical learning experience aligned with BU's Strategic Plan and commitment to internationalization.



The programme was led by Mr. Hubert Schaafsma, Head of Nautical College at Amsterdam University of Applied Sciences, Netherlands, as the main resource person. Sessions included intensive academic discussions, industry-relevant case studies, and collaborative learning activities designed to enhance participants' understanding of energy efficiency in the maritime sector

This programme reflects Bahria University's continued dedication to providing globally relevant academic exposure, fostering interdisciplinary learning, and strengthening collaboration with international institutions such as Amsterdam University of Applied Sciences. Incentives were also offered to faculty, staff, and students who facilitated sponsorships, further promoting engagement and support for the initiative.

Figure 1: Bahria University annual report data, 2024-25: International Summer School programme, Karachi campus, 19 to 23 August 2024, on Energy Efficiency Measures for Ports and Shipping Industry, with the course announcement of the Department of Maritime Sciences: resource person from the Amsterdam University of Applied Sciences and registration categories for BU students, alumni and faculty, non-BU students and faculty, and maritime professionals.

1. International Certificate Course (continued): course announcement

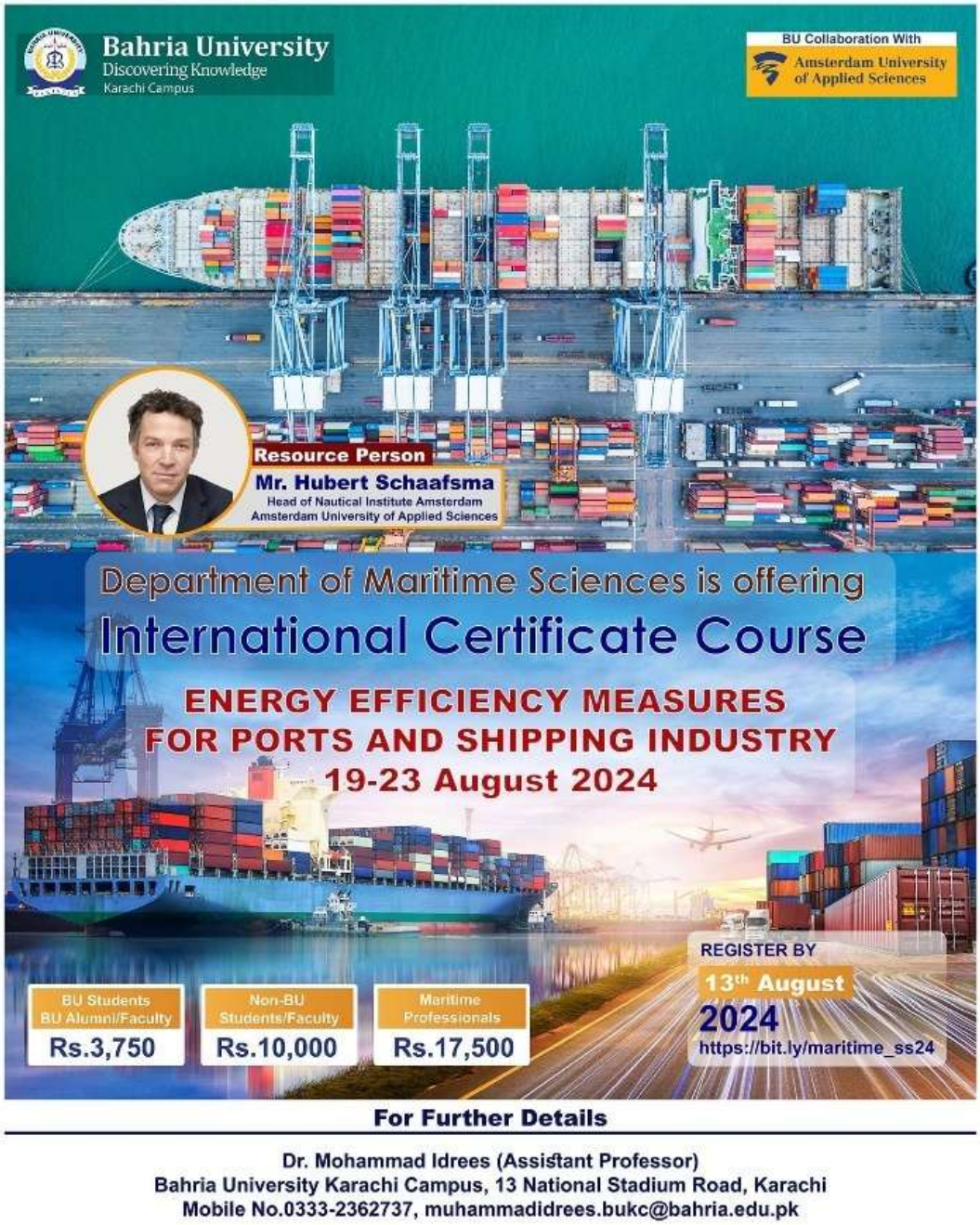


Figure 2: Course announcement, Department of Maritime Sciences, Karachi campus, extracted from the record: International Certificate Course, Energy Efficiency Measures for Ports and Shipping Industry, 19 to 23 August 2024, in collaboration with the Amsterdam University of Applied Sciences; resource person Mr Hubert Schaafsma; registration fees for BU students, alumni and faculty (PKR 3,750), non-BU students and faculty (PKR 10,000) and maritime professionals (PKR 17,500); registration by 13 August 2024.

2. Awareness Session on Energy Consumption and Sustainability, Karachi campus

On 27 November 2025 the Department of Management Studies, in collaboration with the Community Support Program, organised an Awareness Session on Energy Consumption and Sustainability at Fatimah Jinnah Hall, Karachi campus. The session aimed to educate participants on the importance of responsible energy use and to promote sustainable practices, and it highlighted the role of individual and collective effort in achieving a more sustainable future (Community Support Program record, Karachi campus). The Community Support Program is the University's community service programme, through which students earn community service hours.



Figure 3: Awareness Session on Energy Consumption and Sustainability, Fatimah Jinnah Hall, Karachi campus, 27 November 2025: presentation of a shield at the session. Community Support Program record.

2. Awareness Session on Energy Consumption and Sustainability (continued)



Figure 4: Awareness Session on Energy Consumption and Sustainability, 27 November 2025: participants in Fatimah Jinnah Hall. Community Support Program record.

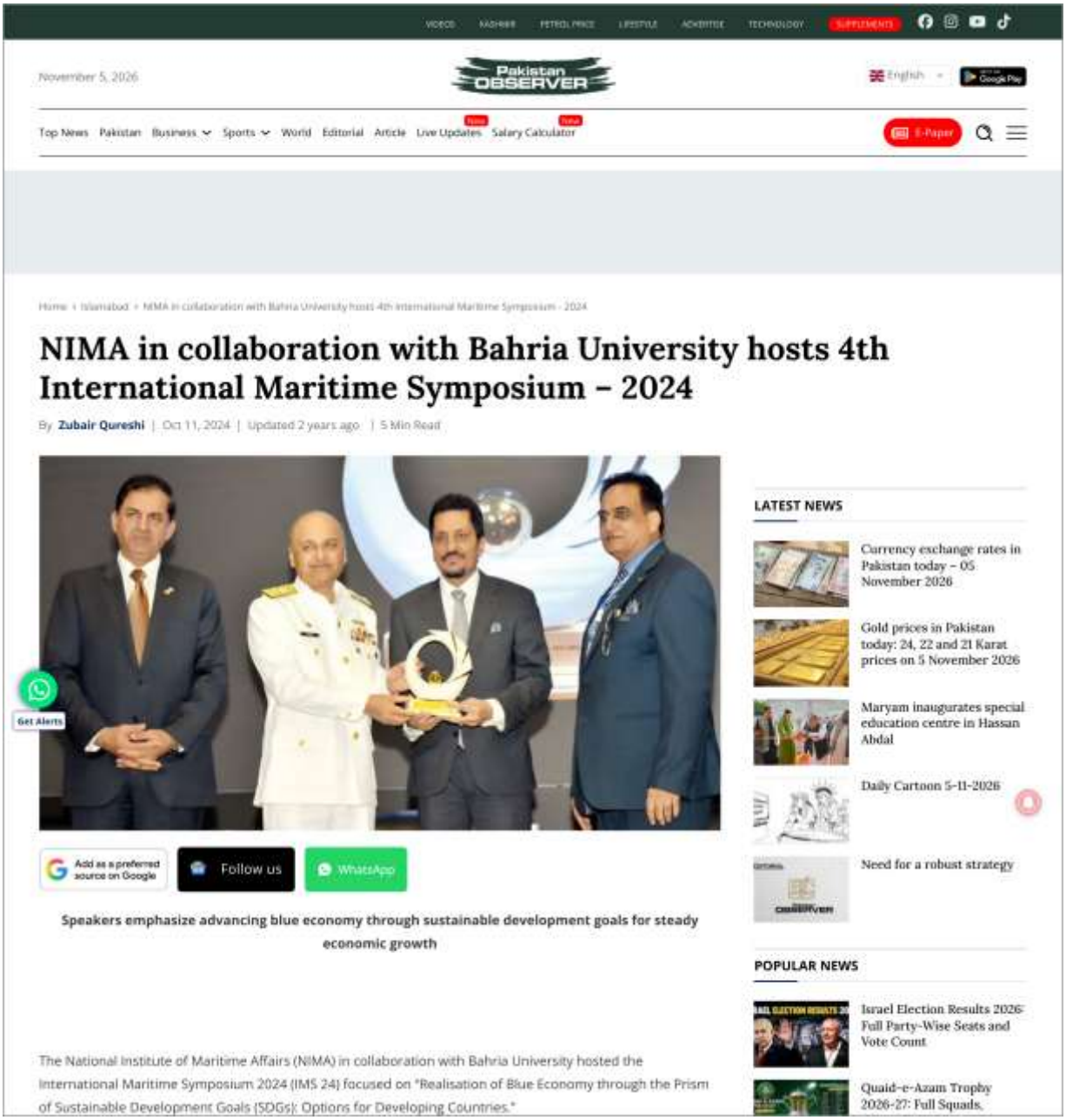
3. 4th International Maritime Symposium, October 2024

The National Institute of Maritime Affairs (NIMA), in collaboration with Bahria University, hosted the 4th International Maritime Symposium (IMS 24) on “Realisation of Blue Economy through the Prism of Sustainable Development Goals (SDGs): Options for Developing Countries”, reported by the Pakistan Observer on 11 October 2024. The symposium was attended by international speakers, academics, diplomats, policymakers and maritime professionals, and the Rector of the University gave the opening address of its second session.

Clean energy was part of the public programme: speakers set out renewable energy from offshore wind and tidal power among the opportunities of the deep-sea economy, and the Federal Minister for Planning, Development and Special Initiatives addressed the policy frameworks needed to promote clean energy initiatives. NIMA launched six research reports at the symposium, among them “MARPOL Annex VI: Advancements in Green Shipping Technologies and Way Forward for Pakistan” (Figures 5 to 11).

Pakistan Observer, 11 October 2024, “NIMA in collaboration with Bahria University hosts 4th International Maritime Symposium – 2024”: https://pakobserver.net/?p=631888

3. 4th International Maritime Symposium (continued): public report



November 5, 2026

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NIMA in collaboration with Bahria University hosts 4th International Maritime Symposium – 2024

By Zubair Qureshi | Oct 11, 2024 | Updated 2 years ago | 5 Min Read

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Speakers emphasize advancing blue economy through sustainable development goals for steady economic growth

The National Institute of Maritime Affairs (NIMA) in collaboration with Bahria University hosted the International Maritime Symposium 2024 (IMS 24) focused on "Realisation of Blue Economy through the Prism of Sustainable Development Goals (SDGs): Options for Developing Countries."

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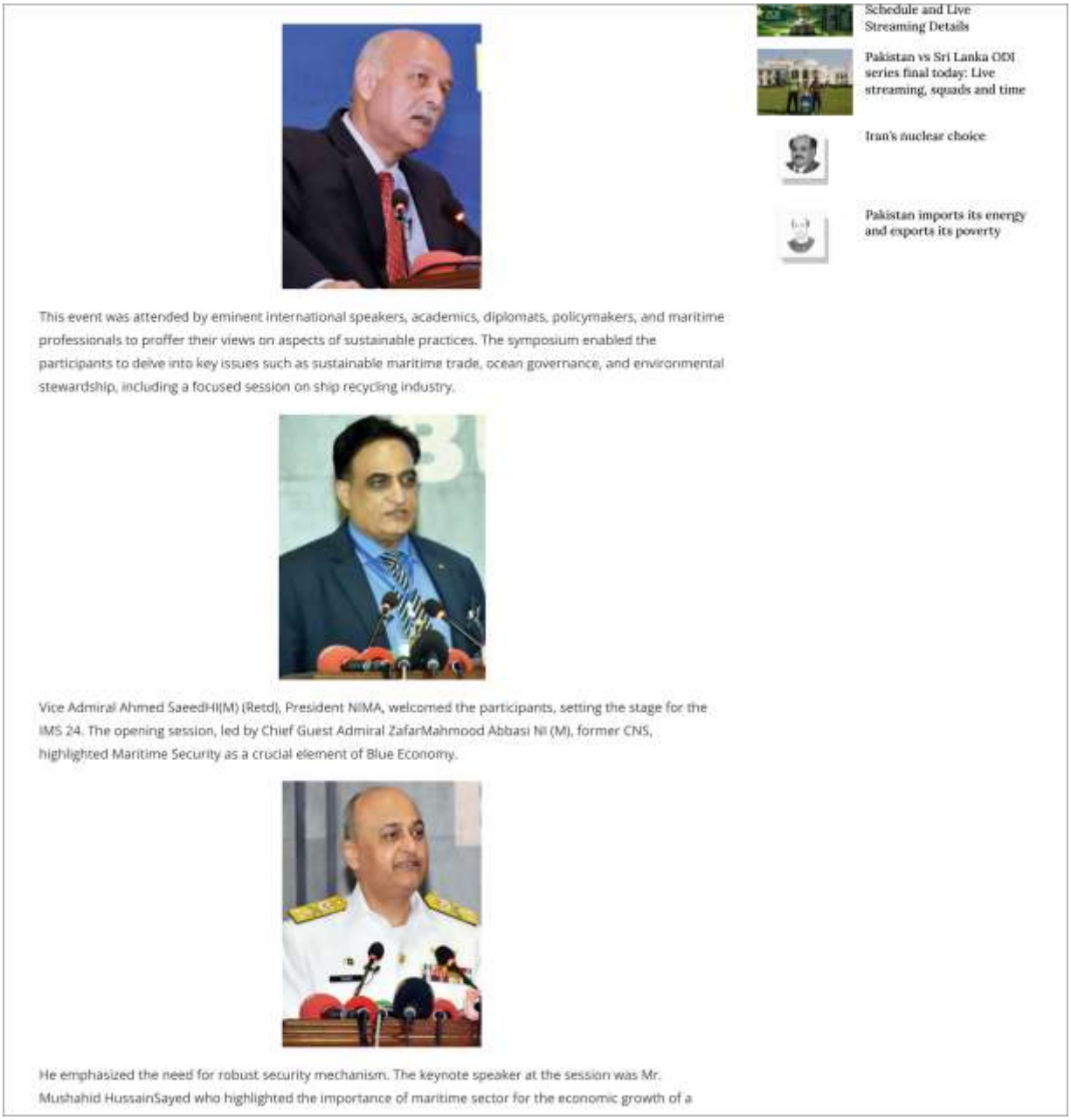
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Figure 5: Pakistan Observer, 11 October 2024, captured on 5 November 2026, part 1 of 5: headline, photograph and opening of the report on the 4th International Maritime Symposium hosted by NIMA in collaboration with Bahria University.

3. 4th International Maritime Symposium (continued): public report



Schedule and Live Streaming Details

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Iran's nuclear choice

Pakistan imports its energy and exports its poverty

This event was attended by eminent international speakers, academics, diplomats, policymakers, and maritime professionals to proffer their views on aspects of sustainable practices. The symposium enabled the participants to delve into key issues such as sustainable maritime trade, ocean governance, and environmental stewardship, including a focused session on ship recycling industry.

Vice Admiral Ahmed SaeedHI(M) (Retd), President NIMA, welcomed the participants, setting the stage for the IMS 24. The opening session, led by Chief Guest Admiral ZafarMahmood Abbasi NI (M), former CNS, highlighted Maritime Security as a crucial element of Blue Economy.

He emphasized the need for robust security mechanism. The keynote speaker at the session was Mr. Mushahid HussainSayed who highlighted the importance of maritime sector for the economic growth of a

Figure 6: Pakistan Observer report, part 2 of 5: participants, including academics, diplomats, policymakers and maritime professionals; opening session.

3. 4th International Maritime Symposium (continued): public report

country. The speakers included Rear Admiral Faisal Ali Shah HI (M), Chairman and Editor-in-Chief of Pakistan Observer, Mr Faisal Zahid Malik, Mr. Rab Nawaz, Dr. Shahida Jaffrey, Dr. Ashfaq Hassan Khan, and Prof. Ali Ibrahim Akkutay from DEHUKAM, Turkiye. They deliberated on various social, environmental and economic aspects as imperatives of maritime security.



In his message Mr Faisal Zahid Malik highlighted challenges and opportunities in the blue economy sector which has adopted critical importance for Pakistan. This "Developing the deep-sea economy presents immense opportunities for economic growth and innovation. By tapping into the vast resources of the deep oceans—such as minerals, fisheries, and renewable energy sources like offshore wind and tidal power—we can unlock new industries and revenue streams," he said.



At the second session of the international symposium, Vice Admiral Asif Khaliq HI (M), Rector Bahria University gave opening address. This session's theme was "The prospects of blue economy for Pakistan to realize UN SDGs," and none other than Federal Minister for PD&SI Mr. Ahsaniqbal was the Chief Guest. He focused on strategic planning and policy frameworks necessary for leveraging coastal resources and promoting clean energy initiatives.



Figure 7: Pakistan Observer report, part 3 of 5: keynote and speakers, including renewable energy from offshore wind and tidal power among the opportunities of the deep-sea economy, and the opening address of the Rector of Bahria University to the second session, at which clean energy initiatives were addressed.

3. 4th International Maritime Symposium (continued): public report

Mr Ahsan Iqbal stressed the application of science and technology and innovative practices in the maritime sector to meet the challenges of the current era. The keynote speaker Ms. Bushra Aman, Secretary NSD also explored various dimensions of the blue economy saying how it could catapult the growth sector.



Other speakers included Admiral RavindraChandrasiriWijegunaratne, Sri Lankan High Commissioner, Mr. Jun Sun from IMO, Dr. ShabanaFayyaz, Commodore AbidRanaSI(M)(Retd), Vice Admiral Iftikhar Ahmed Rao HI(M), while Chairman NIMA BoA Admiral Muhammad Zakaullah NI(M) presented the Note of Thanks.



The speakers highlighted the potential of Blue Economy from the international aspects of governance, treaties compliance and strategic environment of IOR.

Vice Admiral Ovais Ahmed BilgramiHI(M), Vice Chief of Naval Staff, the Chief Guest of the final session, focused on the Green Ship Recycling and Implementation of HKC in Pakistan. He urged stakeholders to prioritise sustainable ship recycling at Gadani under the Hong Kong Convention 2009.



Figure 8: Pakistan Observer report, part 4 of 5: further speakers and sessions.

3. 4th International Maritime Symposium (continued): public report

The event featured a panel discussion with panelists including Mr Per Albert Iisaas, Norwegian Ambassador; Mr. DewanRizwan Chairman PSBA; Captain Javed Khan (Retd), Chairman BDA; Mr. John Alonso from IMO, Mr. Guillermo Montt from ILO Pakistan, Mr. Asif, Honorary Secy PSBA, Mr. Musharaf as Representative of Gadani Labor Union and Mr. Anees Khan from NIMA.

The participants stressed on the need of HKC compliance in Pakistan and the challenges Pakistan's ship recycling industry faces it this regard. Mr. John Alonso from IMO highlighted IMO's efforts for enabling developing countries in the implementation of the convention. The session was moderated by CdreRaheelMasoodSI(M)(retd).



NIMA launched six research reports, which included a study on "Pakistan's Ship Recycling Industry", reports on "Impacts of Climate Change on the Maritime Sector of Pakistan", "Analysis of High Seas Treaty and Implications for Pakistan", "MARPOL Annex VI: Advancements in Green Shipping Technologies and Way Forward for Pakistan" and two NIMA Research Compendiums. The event reaffirmed Pakistan's commitment to integrate the Blue Economy while aligning it with global Sustainable Development Goals. Vice Admiral Ahmed SaeedHI(M), President NIMA extended a note of thanks to all speakers and participants. At the end, souvenirs were presented to the esteemed speakers, distinguished guests and the sponsors of the event.

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Figure 9: Pakistan Observer report, part 5 of 5: panel discussion and the six NIMA research reports launched, including MARPOL Annex VI: Advancements in Green Shipping Technologies.

3. 4th International Maritime Symposium (continued): photographs



Figure 10: 4th International Maritime Symposium, October 2024: presentation of a souvenir to a speaker. Photograph from the Pakistan Observer report.



Figure 11: 4th International Maritime Symposium, October 2024: presentation of a souvenir at the symposium. Photograph from the Pakistan Observer report.

4. National Institute of Maritime Affairs (NIMA): programmes on clean energy and green shipping, 2025

The National Institute of Maritime Affairs (NIMA) operates under the auspices of Bahria University, with its head office at the University's E-8 campus in Islamabad, as the NIMA website states. In 2025 it ran further programmes through which audiences beyond the University learned about clean energy and the decarbonisation of shipping (Table 2).

Table 2: NIMA programmes addressing clean energy and green shipping, 2025 (source: NIMA website)

Date	Programme	Participants	Energy content
30 Apr 2025	Webinar, "IMO's Net-Zero Framework under MARPOL Annex VI: Pakistan's Commitment and Way Forward"; Secretary, Ministry of Climate Change and Environmental Coordination, as chief guest	Experts and representatives of the Office of the DG Ports and Shipping, PNSC, Karachi Port Trust, Port Qasim Authority and Karachi Shipyard	Reducing greenhouse gas emissions from shipping; alignment with the IMO Net-Zero Framework; shipping emissions in the NDCs
22 May 2025	Session on Maritime Law, the Blue Economy and the SDGs, NIMA Islamabad	Faculty and students of ALHAMD Islamic University	Blue economy opportunities including renewable energy; sustainable resource use
4 to 5 Nov 2025	International Maritime Conference (IMC-25) under PIMEC, "Harnessing Blue Economy Potential for Sustainable Development", Karachi	Ministers, naval leadership, experts and delegates	Offshore energy and climate-smart strategies highlighted by the Federal Finance Minister
2 Dec 2025	Session on the role of maritime affairs in Pakistan's economy	Participants of the 8th Maritime Security Workshop, Pakistan Navy War College	Adoption of marine renewable energy solutions; sustainable financing
Jan 2025	Report, "Introduction to MARPOL Annex VI; Advancements in Green Shipping Technologies and Way Forward for Pakistan", launched at the 4th International Maritime Symposium	Public; copies on request	Green shipping technologies; national action plan for reducing greenhouse gas emissions from shipping

4. NIMA programmes, 2025 (continued): NIMA website

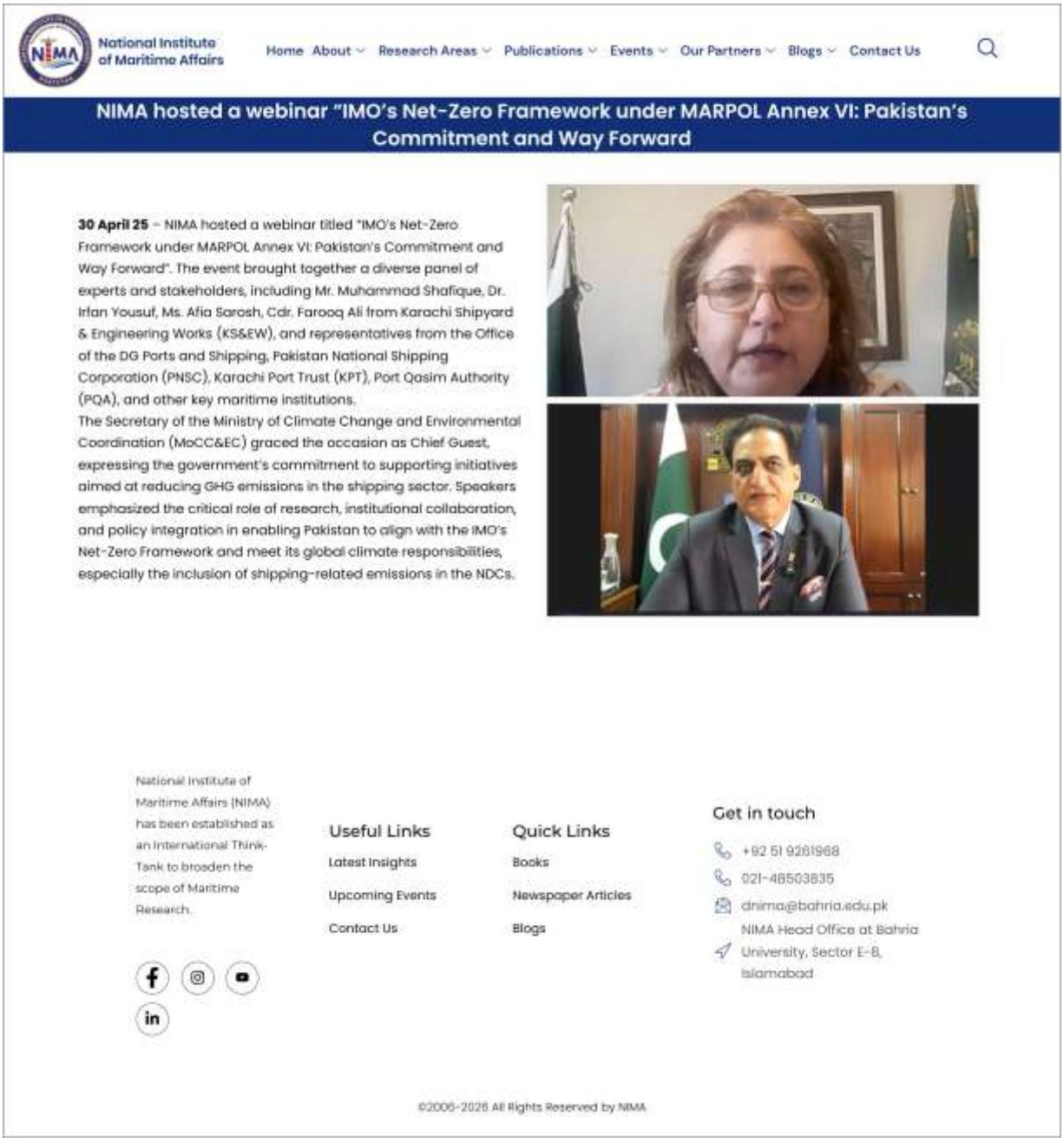


Figure 12: NIMA website: "NIMA hosted a webinar 'IMO's Net-Zero Framework under MARPOL Annex VI: Pakistan's Commitment and Way Forward'", 30 April 2025, captured on 5 November 2026.

4. NIMA programmes, 2025 (continued): NIMA website

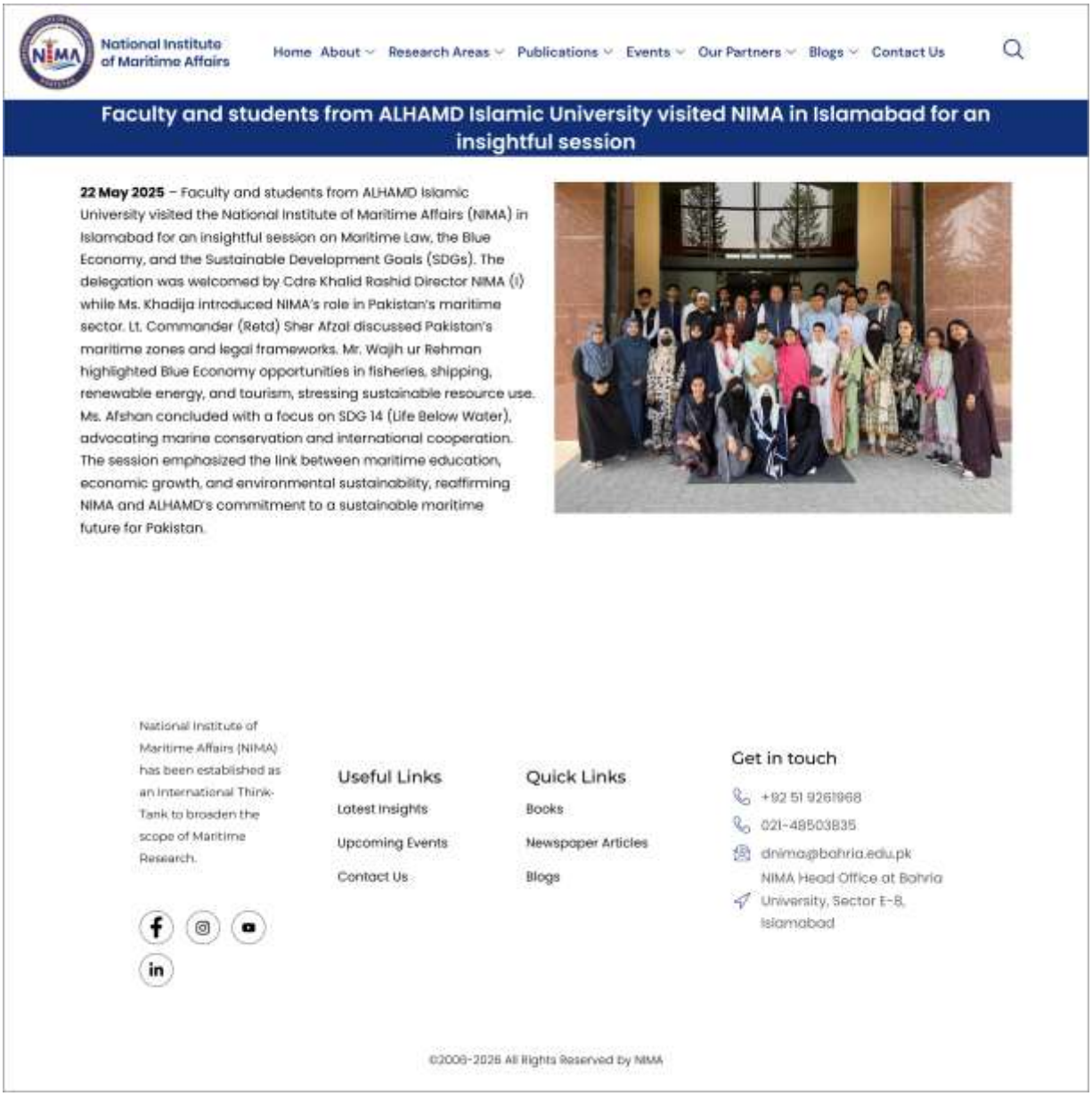


Figure 13: NIMA website: "Faculty and students from ALHAMD Islamic University visited NIMA in Islamabad for an insightful session", 22 May 2025, including renewable energy among blue economy opportunities; captured on 5 November 2026.

4. NIMA programmes, 2025 (continued): NIMA website

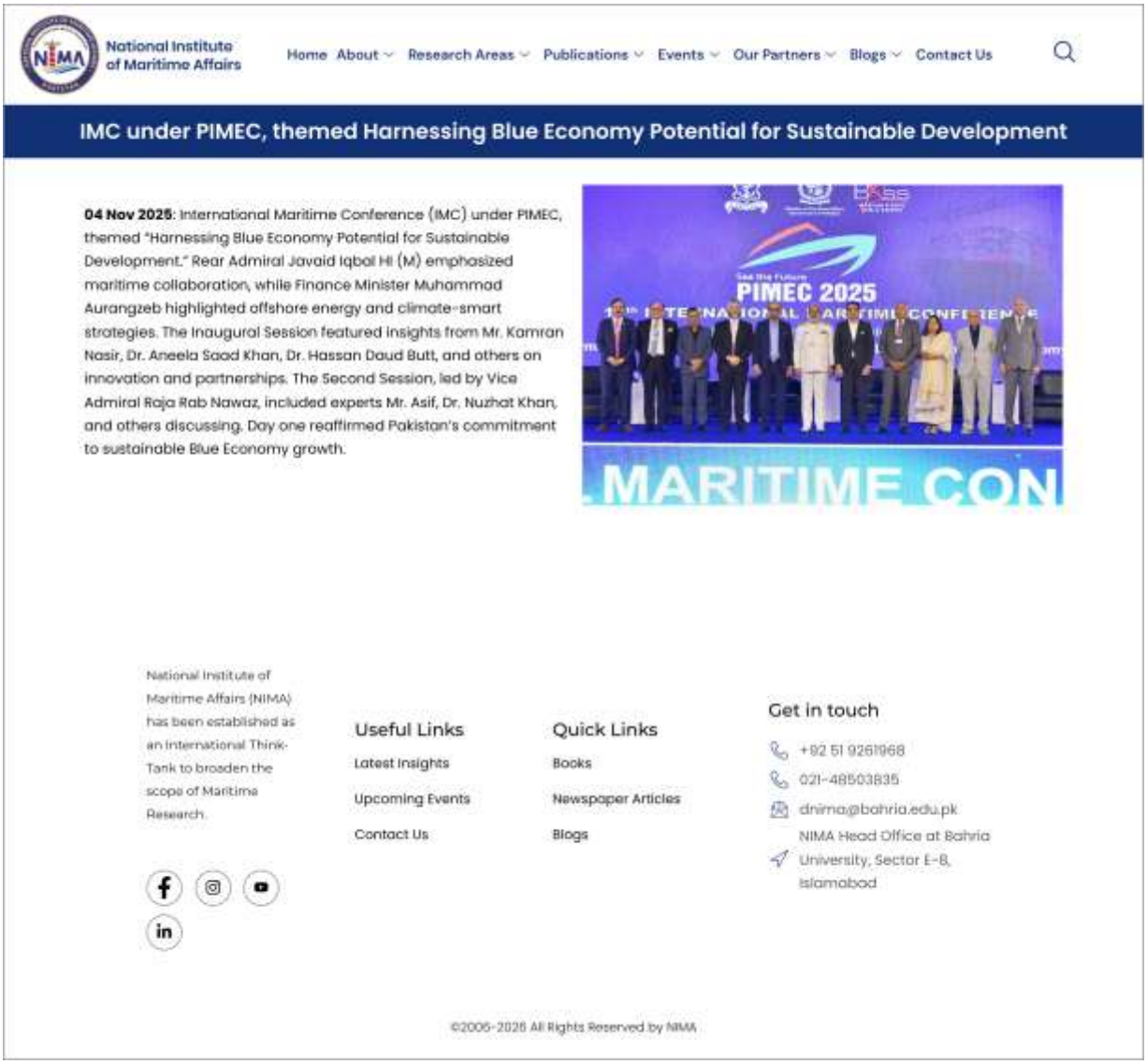


Figure 14: NIMA website: International Maritime Conference (IMC-25) under PIMEC, "Harnessing Blue Economy Potential for Sustainable Development", 4 November 2025, including offshore energy and climate-smart strategies; captured on 5 November 2026.

4. NIMA programmes, 2025 (continued): NIMA website

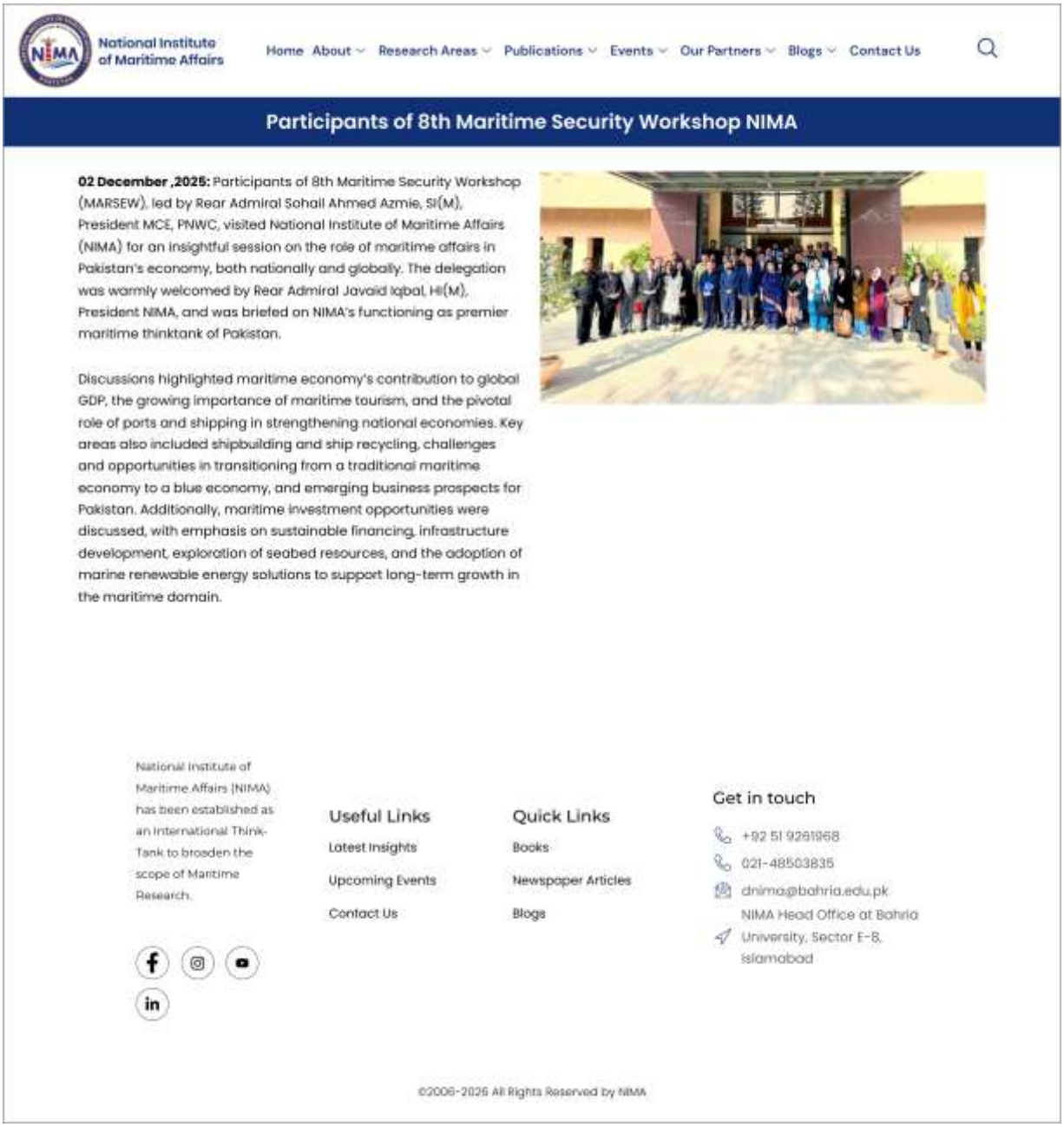


Figure 15: NIMA website: “Participants of 8th Maritime Security Workshop NIMA”, 2 December 2025, including the adoption of marine renewable energy solutions; captured on 5 November 2026.

4. NIMA programmes, 2025 (continued): NIMA website



Figure 16: NIMA website: NIMA Report on Introduction to MARPOL Annex VI; Advancements in Green Shipping Technologies and Way Forward for Pakistan, with abstract and authors; footer with the NIMA head office at Bahria University; captured on 5 November 2026.

4. NIMA programmes, 2025 (continued): photographs



Figure 17: Webinar on the IMO Net-Zero Framework under MARPOL Annex VI, 30 April 2025: speakers. Photograph from the NIMA website.



Figure 18: Faculty and students of ALHAMD Islamic University at NIMA, Islamabad, 22 May 2025. Photograph from the NIMA website.

4. NIMA programmes, 2025 (continued): photographs



Figure 19: International Maritime Conference (IMC-25), PIMEC 2025, Karachi, November 2025: speakers and guests. Photograph from the NIMA website.



Figure 20: Participants of the 8th Maritime Security Workshop at NIMA, 2 December 2025. Photograph from the NIMA website.

4. NIMA programmes, 2025 (continued): report on green shipping technologies

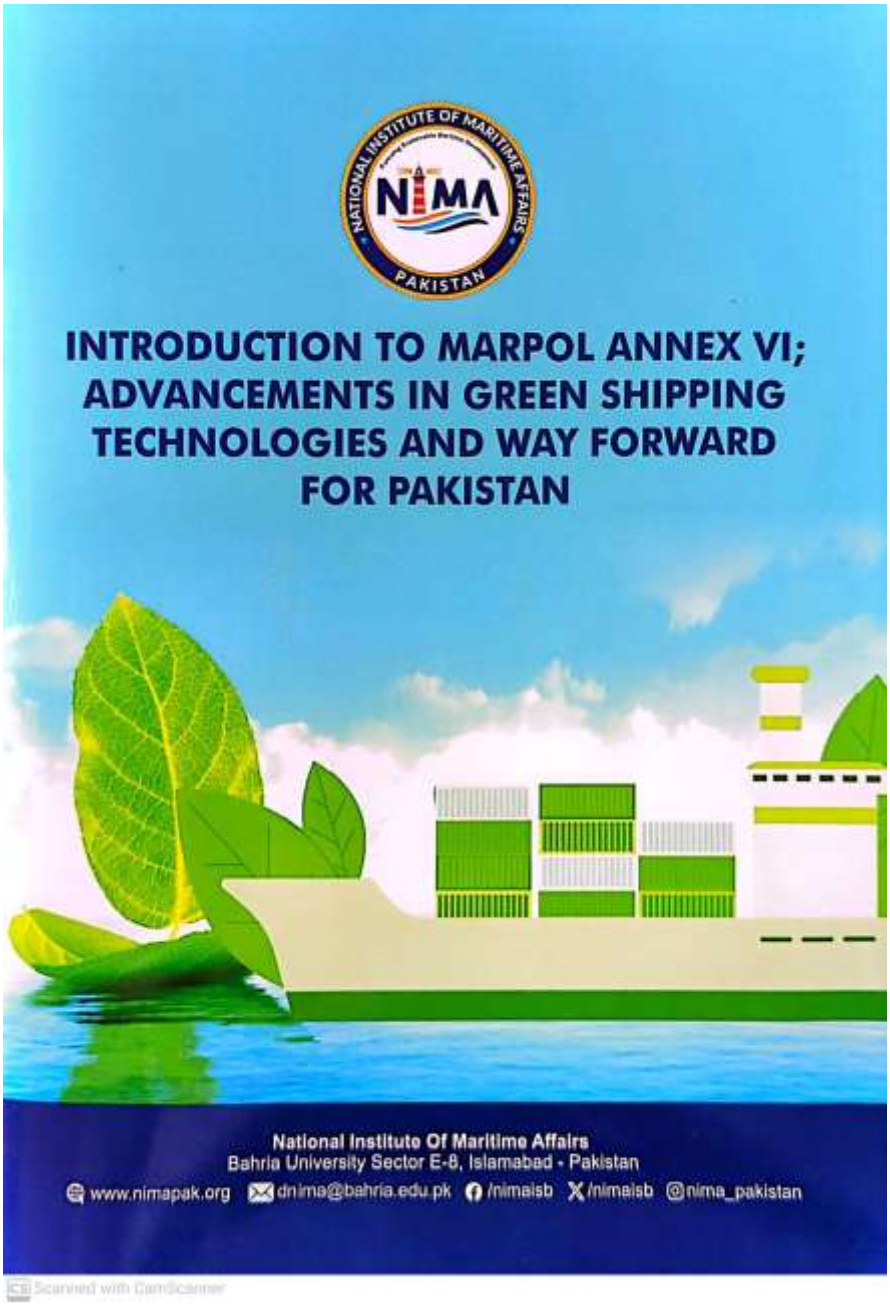


Figure 21: Cover of the NIMA report, Introduction to MARPOL Annex VI; Advancements in Green Shipping Technologies and Way Forward for Pakistan. Image from the NIMA website.
NIMA website: https://nimapak.org/

5. Green Tech for a Climate-Resilient Pakistan, with the Pakistan Red Crescent Society, Sindh

On 10 October 2025 the Pakistan Red Crescent Society (PRCS), Sindh Branch, and the Earth and Environmental Science Department of Bahria University held a collaborative event under the CACRA Project at Fatima Jinnah Auditorium, on “Green Tech for a Climate-Resilient Pakistan”. The Director Academics of the University was the chief guest. Speakers presented how artificial intelligence can drive sustainable solutions for climate challenges, including its role in energy, agriculture and disaster management, and mangroves as natural infrastructure; PRCS Sindh set out its climate initiatives and its large-scale community training programmes on environmental awareness and resilience (Figures 22 to 30).

Pakistan Red Crescent Society, Sindh: “PRCS Sindh and Bahria University Promote Sustainable Innovation”: https://prcsindh.org.pk/green-tech-climate-resilience-prcs-bahria-university-event/

5. Green Tech for a Climate-Resilient Pakistan (continued): partner report

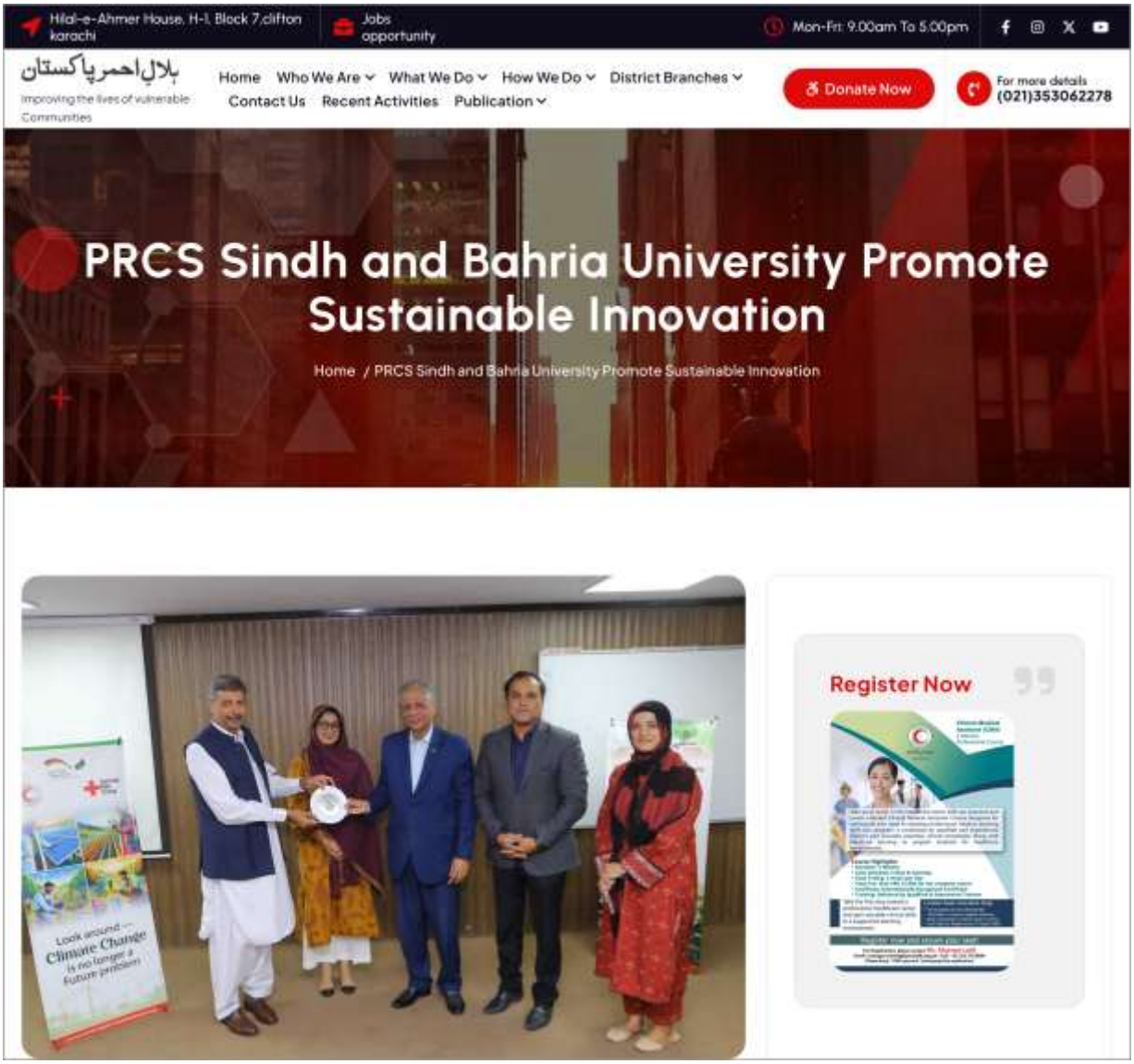
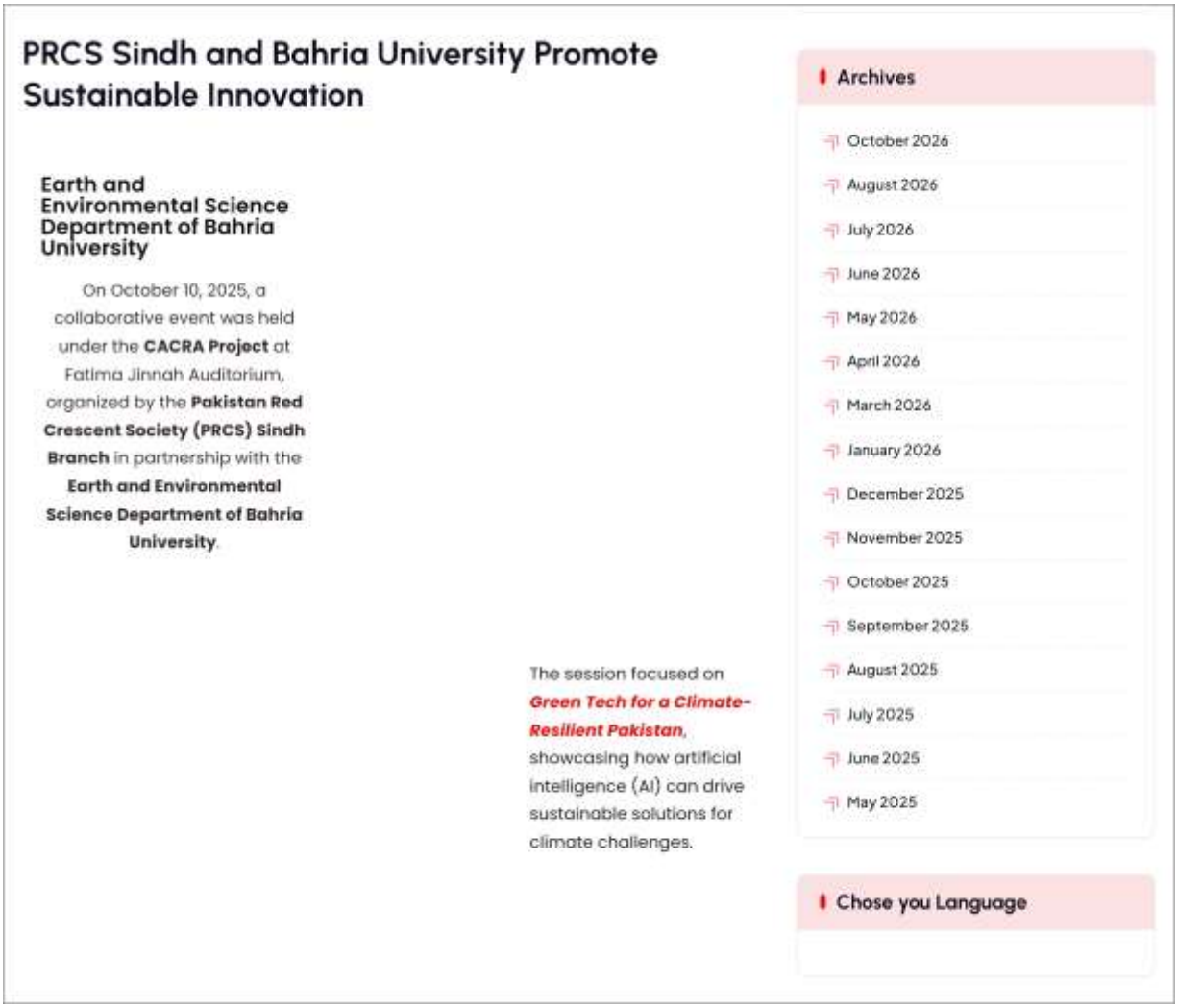


Figure 22: Pakistan Red Crescent Society, Sindh, website, captured on 5 November 2026, part 1 of 3: “PRCS Sindh and Bahria University Promote Sustainable Innovation”, with the event photograph.

5. Green Tech for a Climate-Resilient Pakistan (continued): partner report



PRCS Sindh and Bahria University Promote Sustainable Innovation

Earth and Environmental Science Department of Bahria University

On October 10, 2025, a collaborative event was held under the **CACRA Project** at Fatima Jinnah Auditorium, organized by the **Pakistan Red Crescent Society (PRCS) Sindh Branch** in partnership with the **Earth and Environmental Science Department of Bahria University**.

The session focused on ***Green Tech for a Climate-Resilient Pakistan***, showcasing how artificial intelligence (AI) can drive sustainable solutions for climate challenges.

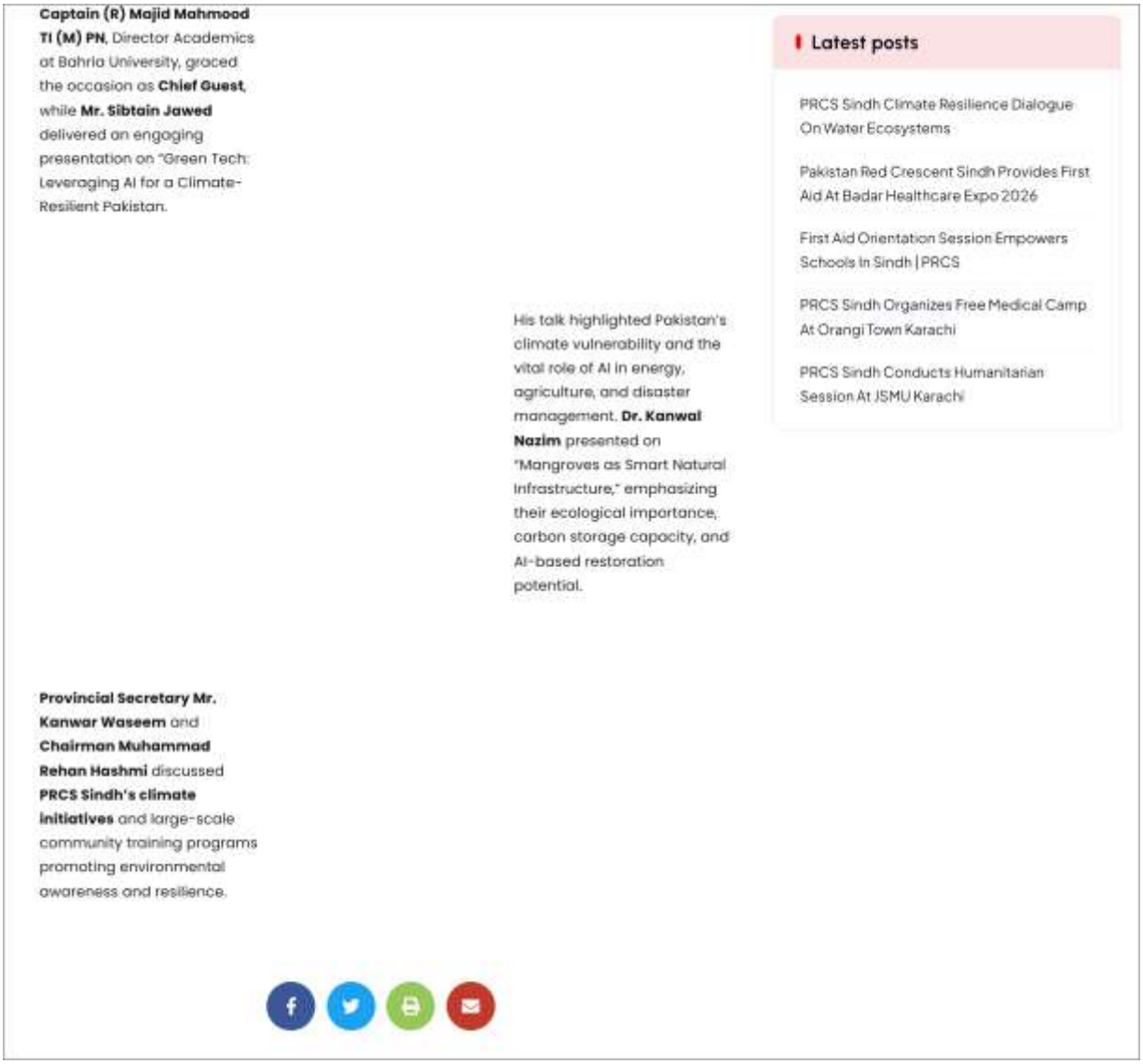
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Figure 23: PRCS Sindh website, part 2 of 3: event of 10 October 2025 under the CACRA Project, organised by PRCS Sindh with the Earth and Environmental Science Department of Bahria University, on Green Tech for a Climate-Resilient Pakistan.

5. Green Tech for a Climate-Resilient Pakistan (continued): partner report



Captain (R) Majid Mahmood TI (M) PN, Director Academics at Bahria University, graced the occasion as **Chief Guest**, while **Mr. Sibtain Jawed** delivered an engaging presentation on "Green Tech: Leveraging AI for a Climate-Resilient Pakistan.

His talk highlighted Pakistan's climate vulnerability and the vital role of AI in energy, agriculture, and disaster management. **Dr. Kanwal Nazim** presented on "Mangroves as Smart Natural Infrastructure," emphasizing their ecological importance, carbon storage capacity, and AI-based restoration potential.

Provincial Secretary Mr. Kanwar Waseem and **Chairman Muhammad Rehan Hashmi** discussed **PRCS Sindh's climate initiatives** and large-scale community training programs promoting environmental awareness and resilience.

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PRCS Sindh Conducts Humanitarian Session At JSMU Karachi

Figure 24: PRCS Sindh website, part 3 of 3: speakers, including the role of artificial intelligence in energy, and PRCS Sindh community training programmes on environmental awareness and resilience.

5. Green Tech for a Climate-Resilient Pakistan (continued): photographs



Figure 25: Green Tech for a Climate-Resilient Pakistan, 10 October 2025: event photograph: presentation of a shield, with the Climate Change banner of the CACRA Project. Photograph from the PRCS Sindh website.



Figure 26: Green Tech for a Climate-Resilient Pakistan, 10 October 2025: participants and guests, including Red Crescent volunteers, in the auditorium. Photograph from the PRCS Sindh website.

5. Green Tech for a Climate-Resilient Pakistan (continued): photographs



Figure 27: Green Tech for a Climate-Resilient Pakistan, 10 October 2025: participants in the auditorium. Photograph from the PRCS Sindh website.



Figure 28: Green Tech for a Climate-Resilient Pakistan, 10 October 2025: participants and Red Crescent volunteers in the auditorium. Photograph from the PRCS Sindh website.

5. Green Tech for a Climate-Resilient Pakistan (continued): photographs



Figure 29: Green Tech for a Climate-Resilient Pakistan, 10 October 2025: registration desk staffed by Red Crescent volunteers. Photograph from the PRCS Sindh website.



Figure 30: Green Tech for a Climate-Resilient Pakistan, 10 October 2025: session in progress in the auditorium. Photograph from the PRCS Sindh website.

6. CORE-CF: training and capacity building for professionals

The Center of Research Excellence in Climate Finance (CORE-CF), established on 24 November 2025, offers on its public webpage seminars, trainings, workshops and knowledge sessions on climate finance, sustainability, carbon management, ESG and institutional climate readiness for organisational leaders, professionals and academia, together with research and advisory support on climate finance, green investment and sustainable financial systems for universities, public institutions, private organisations and development partners (Figures 31 to 34).

University website, Center of Research Excellence in Climate Finance:
https://bahria.edu.pk/page/PageTemplate4?pageContentId=8302&websiteId=1

6. CORE-CF (continued): webpage



Bahria University
Discovering Knowledge

BU

ABOUT ACADEMICS ADMISSIONS RESEARCH & INNOVATIONS INTERNATIONAL CAMPUS

Center of Research Excellence - Climate Finance

"Accountability – Not Aid, Assets – Not Appeals"

CORE-CF's success story is rooted in a simple but powerful transformation: a classroom idea became a university-wide climate action platform. The center's earliest and most important achievement was leading Bahria University's multi-campus carbon footprint mapping exercise, covering FYs 2022–2025 and Scopes 1, 2, and 3. This work produced the University's greenhouse gas inventory, hotspot analysis, and actionable recommendations for future emissions reduction.

Who We Are and How We Were Born: The Story of Carbon Sensitization

CORE-CF was established at Bahria University as a dedicated platform to respond to the growing urgency of climate change and the increasing need for innovative, evidence-based climate finance solutions. The center brings together research, policy thinking, institutional action, and stakeholder engagement to support sustainable development and climate resilience in Pakistan and beyond.

Our journey began in the classroom. A BBA final-semester class project first developed the idea of mapping Bahria University's carbon footprint to turn sustainability into measurable institutional action. It was later expanded into a university-wide Carbon Footprint Mapping Initiative covering the Islamabad, Karachi, and Lahore campuses across Scopes 1, 2, and 3 under the GHG Protocol for FYs 2022–2025. This initiative produced Bahria University's first consolidated greenhouse gas emissions baseline and actionable recommendation for the future.

The findings made one thing clear: climate action needed to move beyond isolated efforts. The mapping exercise showed the scale of the University's climate challenge and highlighted the need for a permanent structure to sustain measurement, reporting, coordination, and implementation. CORE-CF emerged from this realization as a hub for carbon sensitization, climate-finance leadership, and institutional transformation.

Today, CORE-CF represents Bahria University's commitment to linking academic excellence with national relevance. It is a center designed not only to study climate finance, but to apply it through carbon mapping, policy dialogue, training, partnerships, and practical solutions for a low-carbon future.

OUR GOAL: NET ZERO

Bahria University commits to achieving net-zero greenhouse gas emissions across all scopes by 2050, with an interim target of **50% reduction in absolute emissions by 2040.**

(Baseline: FY2024)

Driving sustainable transformation through accountability, innovation, and climate leadership.

Figure 31: University website, Center of Research Excellence in Climate Finance webpage, captured on 4 November 2026, part 1 of 4: the Center and its mission.

6. CORE-CF (continued): webpage

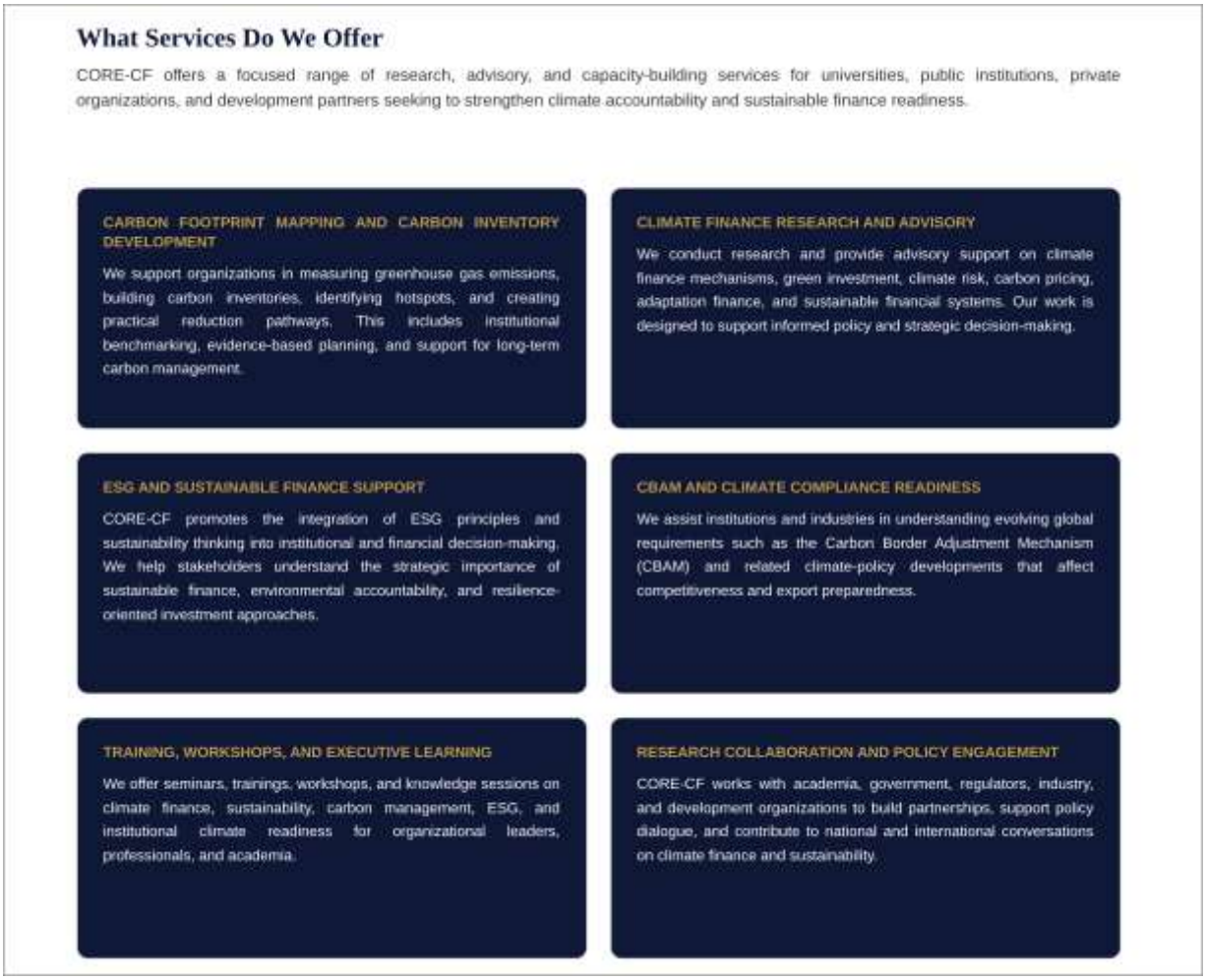
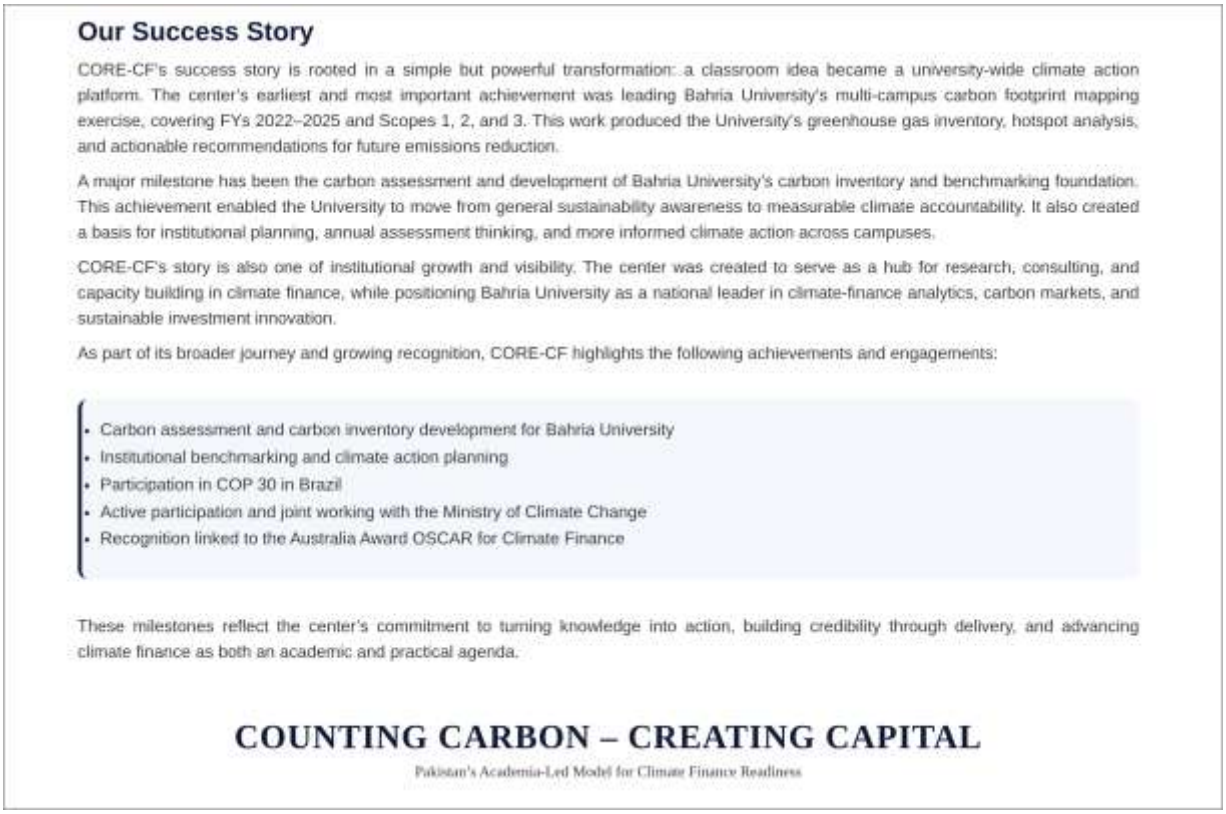


Figure 32: CORE-CF webpage, part 2 of 4: services for universities, public institutions, private organisations and development partners, including training, workshops and executive learning for organisational leaders, professionals and academia.

6. CORE-CF (continued): webpage



Our Success Story

CORE-CF's success story is rooted in a simple but powerful transformation: a classroom idea became a university-wide climate action platform. The center's earliest and most important achievement was leading Bahria University's multi-campus carbon footprint mapping exercise, covering FYs 2022–2025 and Scopes 1, 2, and 3. This work produced the University's greenhouse gas inventory, hotspot analysis, and actionable recommendations for future emissions reduction.

A major milestone has been the carbon assessment and development of Bahria University's carbon inventory and benchmarking foundation. This achievement enabled the University to move from general sustainability awareness to measurable climate accountability. It also created a basis for institutional planning, annual assessment thinking, and more informed climate action across campuses.

CORE-CF's story is also one of institutional growth and visibility. The center was created to serve as a hub for research, consulting, and capacity building in climate finance, while positioning Bahria University as a national leader in climate-finance analytics, carbon markets, and sustainable investment innovation.

As part of its broader journey and growing recognition, CORE-CF highlights the following achievements and engagements:

- Carbon assessment and carbon inventory development for Bahria University
- Institutional benchmarking and climate action planning
- Participation in COP 30 in Brazil
- Active participation and joint working with the Ministry of Climate Change
- Recognition linked to the Australia Award OSCAR for Climate Finance

These milestones reflect the center's commitment to turning knowledge into action, building credibility through delivery, and advancing climate finance as both an academic and practical agenda.

COUNTING CARBON – CREATING CAPITAL

Pakistan's Academia-Led Model for Climate Finance Readiness

Figure 33: CORE-CF webpage, part 3 of 4: the Center's achievements and engagements.

6. CORE-CF (continued): webpage

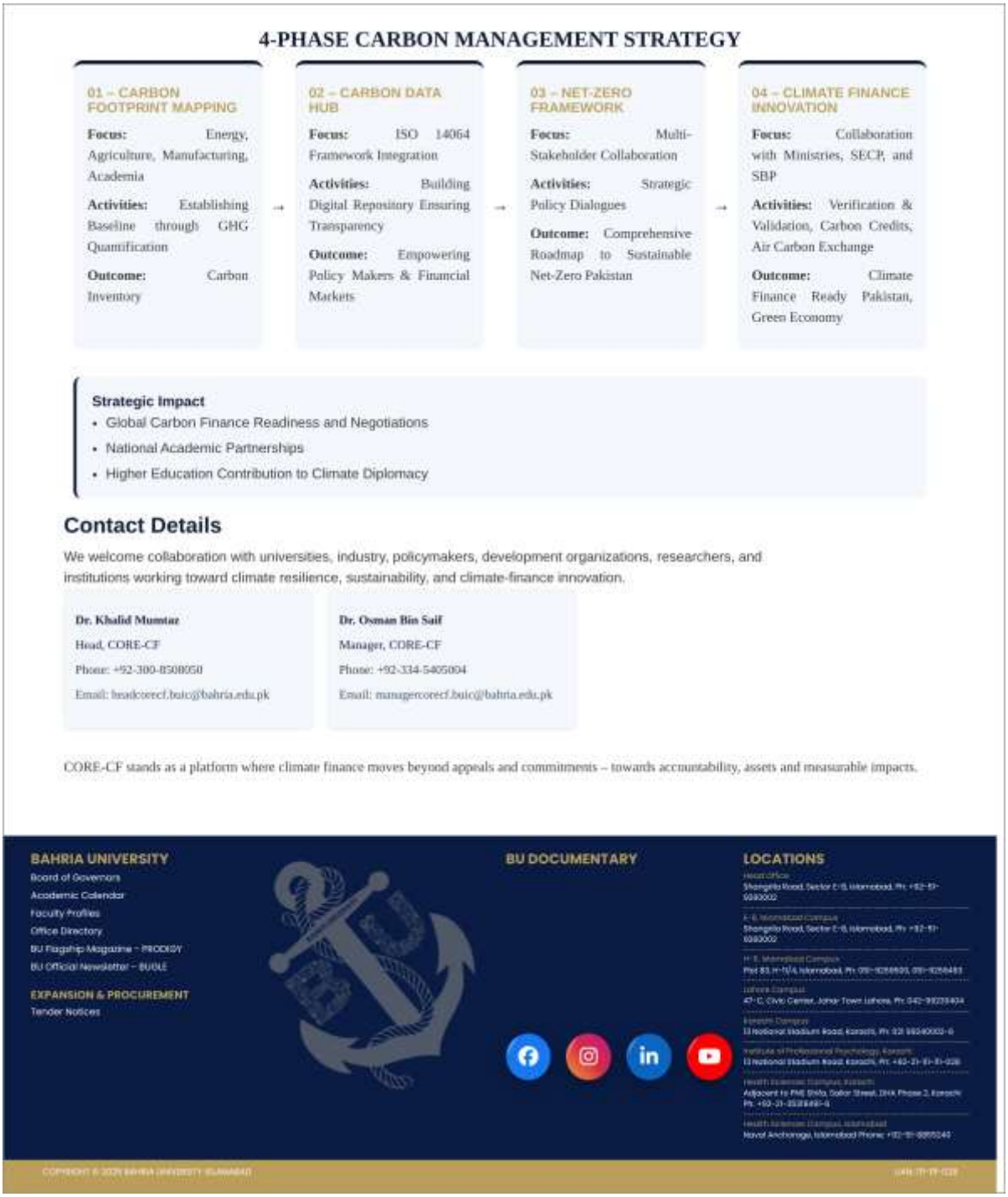


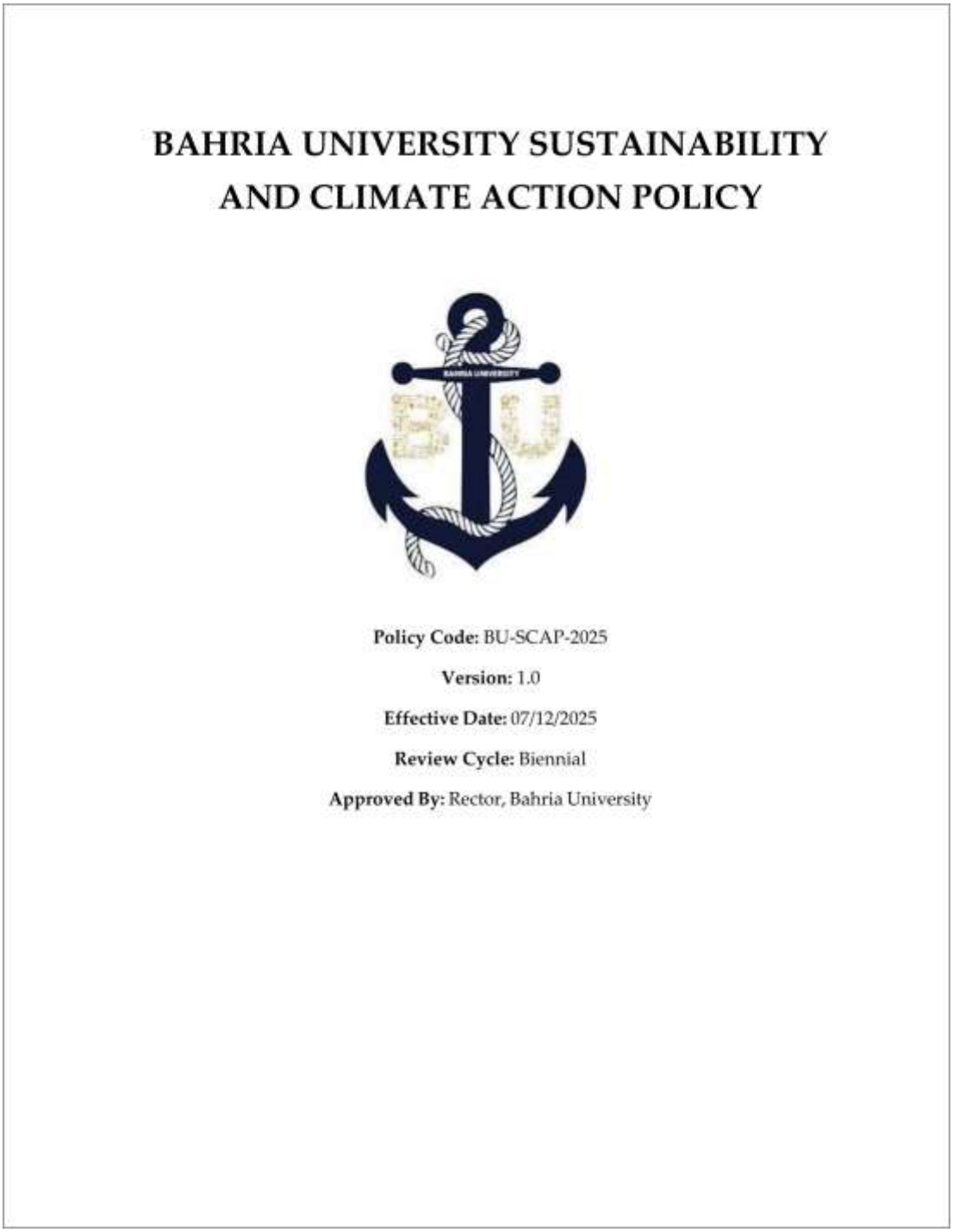
Figure 34: CORE-CF webpage, part 4 of 4: the four-phase carbon management strategy and contact details.

7. Sustainability and Climate Action Policy: engagement with local communities

The Bahria University Sustainability and Climate Action Policy (Policy Code BU-SCAP-2025, version 1.0), effective 7 December 2025 and approved by the Rector, commits the University, under its external partnerships with civil society and communities, to partner with NGOs for community-based climate adaptation, engage local communities in campus sustainability initiatives, support climate education in schools and take part in national climate awareness campaigns (para 7.2). It also commits the University to provide sustainability training and professional development to faculty and staff (para 7.1).

Responsibility is assigned at each level: each campus is to have a sustainability officer or manager whose functions include engagement with local communities and authorities (para 4.3); CORE-CF serves as the technical advisory body for capacity building and training programmes (para 4.4); and the University's professional development programmes are to include climate risk and sustainability training, with executive education programmes on climate leadership (para 6.1).

7. Sustainability and Climate Action Policy (continued)



BAHRIA UNIVERSITY SUSTAINABILITY AND CLIMATE ACTION POLICY

Policy Code: BU-SCAP-2025

Version: 1.0

Effective Date: 07/12/2025

Review Cycle: Biennial

Approved By: Rector, Bahria University

Figure 35: Sustainability and Climate Action Policy, PDF page 1: cover; BU-SCAP-2025, version 1.0, effective 7 December 2025, approved by the Rector.

7. Sustainability and Climate Action Policy (continued)

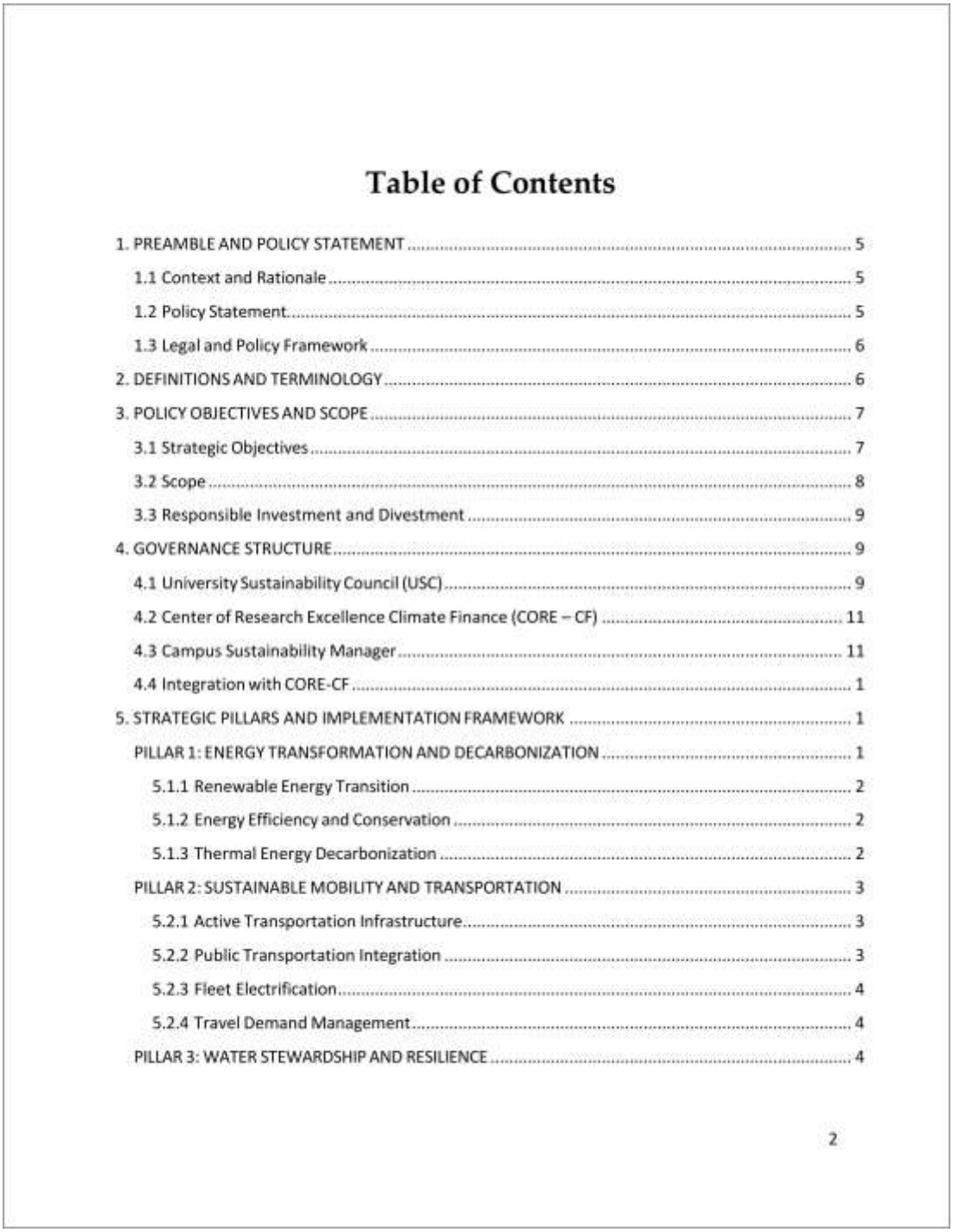


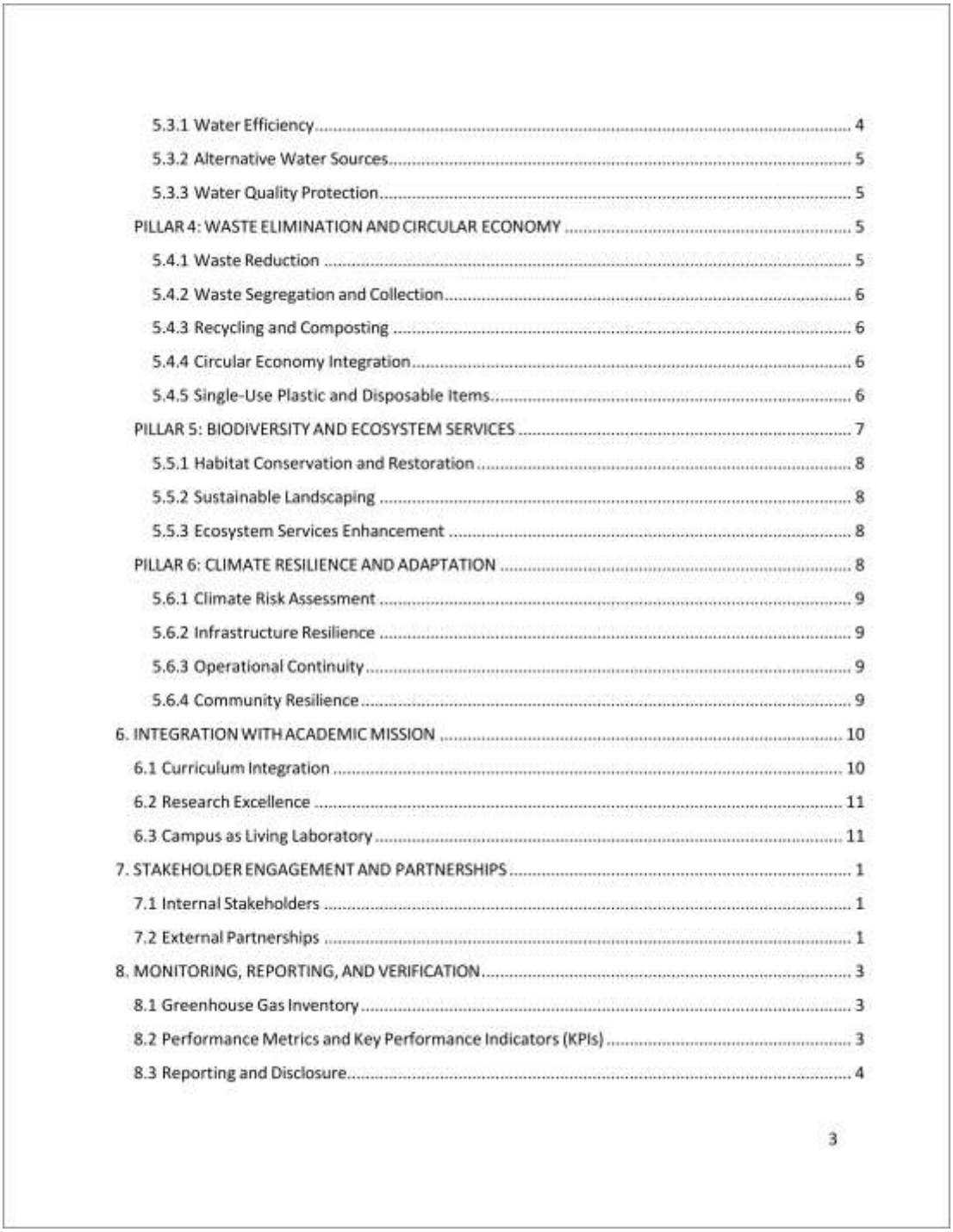
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Figure 36: Sustainability and Climate Action Policy, Table of Contents (page 2), sections 1 to 5, including paras 4.3 and 4.4.

7. Sustainability and Climate Action Policy (continued)

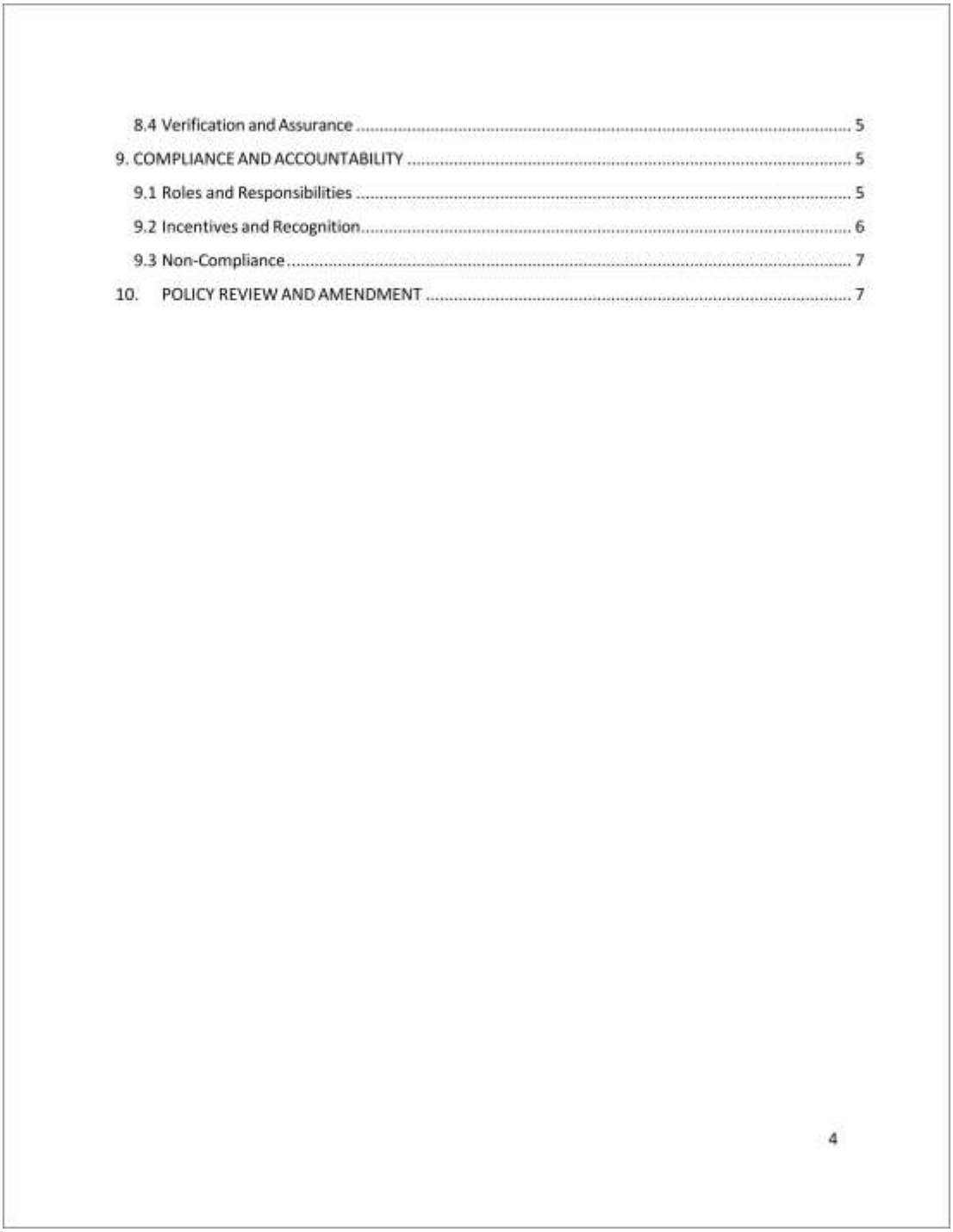


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Figure 37: Sustainability and Climate Action Policy, Table of Contents (page 3), sections 5 to 8, including para 6.1, Curriculum Integration, and section 7, Stakeholder Engagement and Partnerships.

7. Sustainability and Climate Action Policy (continued)

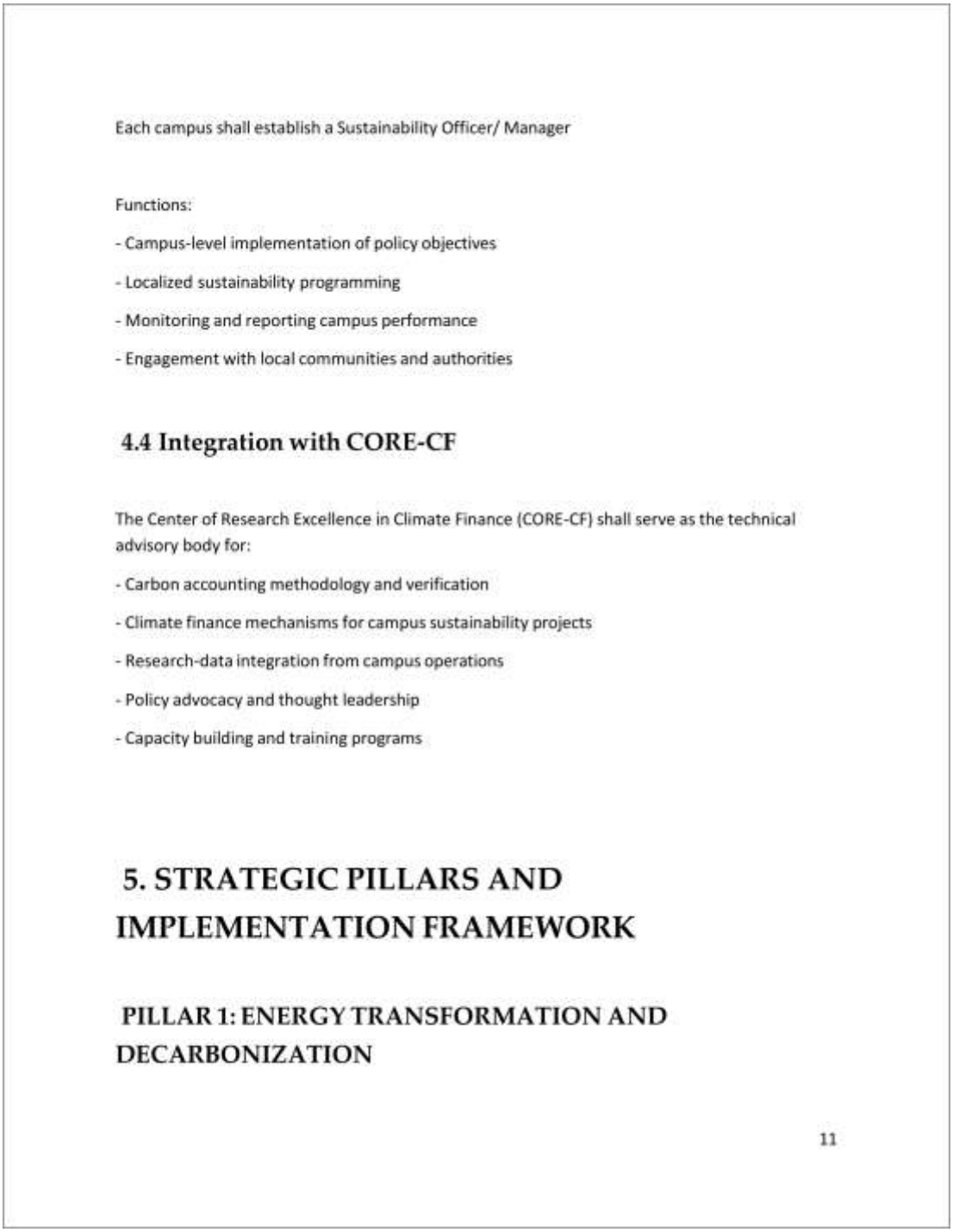


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Figure 38: Sustainability and Climate Action Policy, Table of Contents (page 4), sections 8 to 10.

7. Sustainability and Climate Action Policy (continued): pages cited



Each campus shall establish a Sustainability Officer/ Manager

Functions:

- Campus-level implementation of policy objectives
- Localized sustainability programming
- Monitoring and reporting campus performance
- Engagement with local communities and authorities

4.4 Integration with CORE-CF

The Center of Research Excellence in Climate Finance (CORE-CF) shall serve as the technical advisory body for:

- Carbon accounting methodology and verification
- Climate finance mechanisms for campus sustainability projects
- Research-data integration from campus operations
- Policy advocacy and thought leadership
- Capacity building and training programs

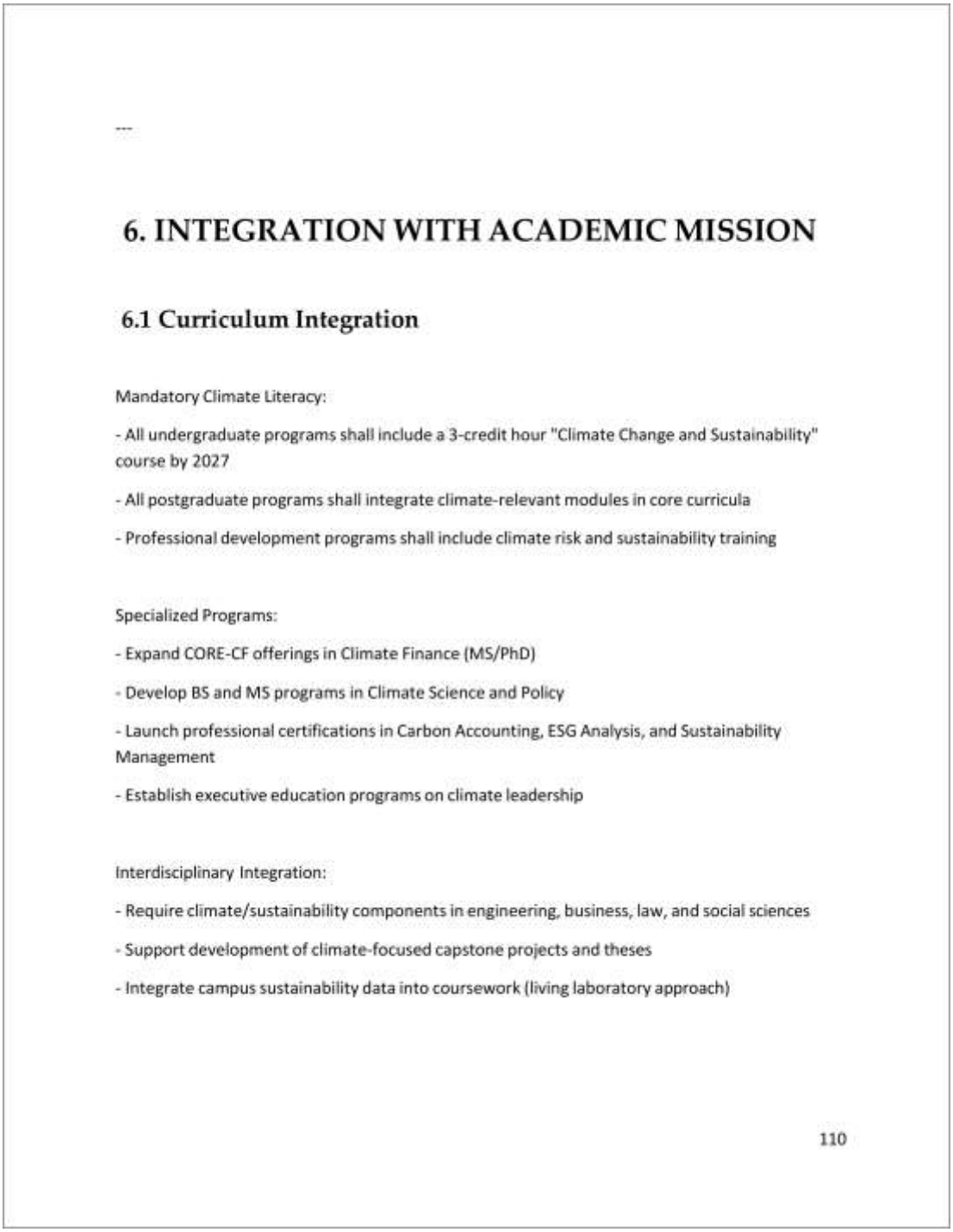
5. STRATEGIC PILLARS AND IMPLEMENTATION FRAMEWORK

PILLAR 1: ENERGY TRANSFORMATION AND DECARBONIZATION

11

Figure 39: Sustainability and Climate Action Policy, PDF page 12: para 4.3, Campus Sustainability Manager, including engagement with local communities and authorities; para 4.4, Integration with CORE-CF, including capacity building and training programmes.

7. Sustainability and Climate Action Policy (continued): pages cited



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6. INTEGRATION WITH ACADEMIC MISSION

6.1 Curriculum Integration

Mandatory Climate Literacy:

- All undergraduate programs shall include a 3-credit hour "Climate Change and Sustainability" course by 2027
- All postgraduate programs shall integrate climate-relevant modules in core curricula
- Professional development programs shall include climate risk and sustainability training

Specialized Programs:

- Expand CORE-CF offerings in Climate Finance (MS/PhD)
- Develop BS and MS programs in Climate Science and Policy
- Launch professional certifications in Carbon Accounting, ESG Analysis, and Sustainability Management
- Establish executive education programs on climate leadership

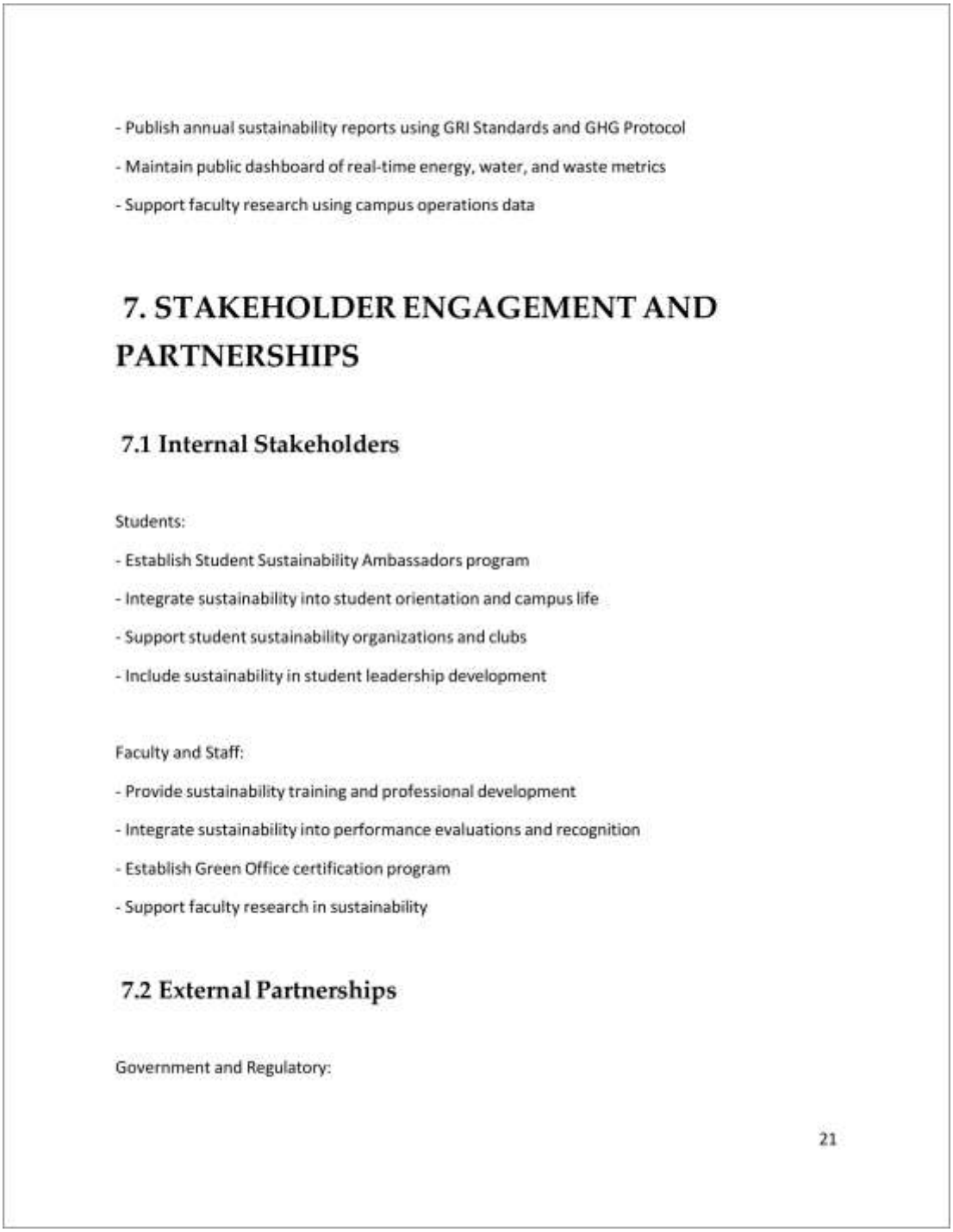
Interdisciplinary Integration:

- Require climate/sustainability components in engineering, business, law, and social sciences
- Support development of climate-focused capstone projects and theses
- Integrate campus sustainability data into coursework (living laboratory approach)

110

Figure 40: Sustainability and Climate Action Policy, PDF page 21: para 6.1, Curriculum Integration, including climate risk and sustainability training in professional development programmes and executive education on climate leadership.

7. Sustainability and Climate Action Policy (continued): pages cited



- Publish annual sustainability reports using GRI Standards and GHG Protocol
- Maintain public dashboard of real-time energy, water, and waste metrics
- Support faculty research using campus operations data

7. STAKEHOLDER ENGAGEMENT AND PARTNERSHIPS

7.1 Internal Stakeholders

Students:

- Establish Student Sustainability Ambassadors program
- Integrate sustainability into student orientation and campus life
- Support student sustainability organizations and clubs
- Include sustainability in student leadership development

Faculty and Staff:

- Provide sustainability training and professional development
- Integrate sustainability into performance evaluations and recognition
- Establish Green Office certification program
- Support faculty research in sustainability

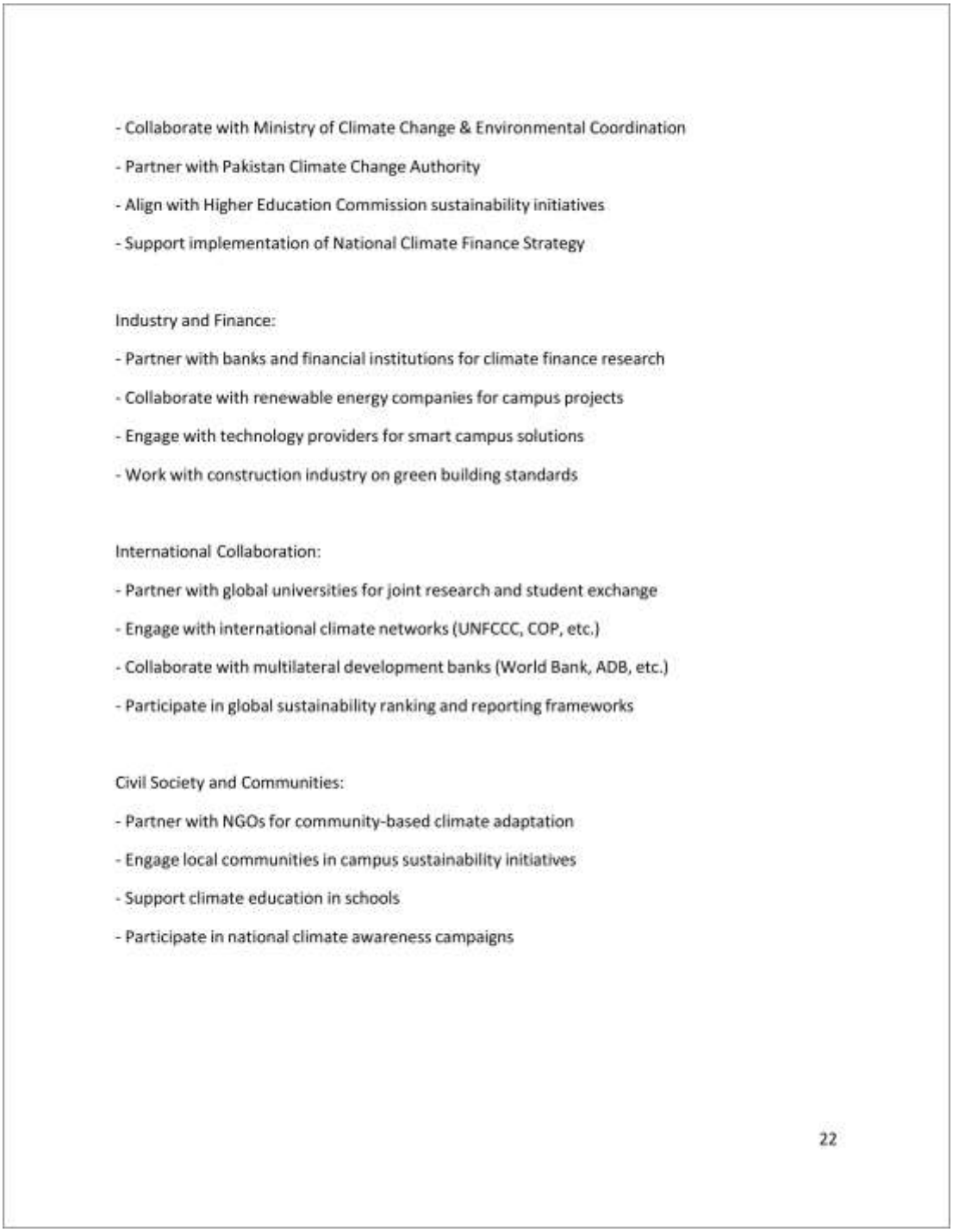
7.2 External Partnerships

Government and Regulatory:

21

Figure 41: Sustainability and Climate Action Policy, PDF page 23: section 7, Stakeholder Engagement and Partnerships; para 7.1, Internal Stakeholders, including sustainability training and professional development for faculty and staff; opening of para 7.2.

7. Sustainability and Climate Action Policy (continued): pages cited



- Collaborate with Ministry of Climate Change & Environmental Coordination
- Partner with Pakistan Climate Change Authority
- Align with Higher Education Commission sustainability initiatives
- Support implementation of National Climate Finance Strategy

Industry and Finance:

- Partner with banks and financial institutions for climate finance research
- Collaborate with renewable energy companies for campus projects
- Engage with technology providers for smart campus solutions
- Work with construction industry on green building standards

International Collaboration:

- Partner with global universities for joint research and student exchange
- Engage with international climate networks (UNFCCC, COP, etc.)
- Collaborate with multilateral development banks (World Bank, ADB, etc.)
- Participate in global sustainability ranking and reporting frameworks

Civil Society and Communities:

- Partner with NGOs for community-based climate adaptation
- Engage local communities in campus sustainability initiatives
- Support climate education in schools
- Participate in national climate awareness campaigns

22

Figure 42: Sustainability and Climate Action Policy, PDF page 24: para 7.2, External Partnerships, including Civil Society and Communities: partnership with NGOs, engagement of local communities, climate education in schools and national climate awareness campaigns.

8. Community Support Policy: student service to the local community

The University's Community Support Policy, issued by the Office of Student Affairs, Head Office, governs the Community Support Program through which the Karachi campus session of November 2025 was organised. Its scope covers education, health, environment and sustainable development, with emphasis on trainings and skill enhancement, including assisting primary and secondary schools in inspiring their students to opt for science and technology, and the promotion of causes that include sustainable development with regard to its impact on water, energy, natural resources and the environment, and energy conservation and the use of alternate resources (para 2(b)).

Every student enrolled in an undergraduate programme is required to serve the community for 40 hours, and the transcript records the Community Support Program as a non-credit requirement (para 2(d), items vii and viii). The community is defined as the organisations working within the geographical boundaries or suburbs of the cities in which the campuses are located, and the activities include assisting partner organisations with their campaigns and conducting training programmes that benefit both students and partner organisations (para 4(b) and the list of activities, page 7).

8. Community Support Policy (continued)

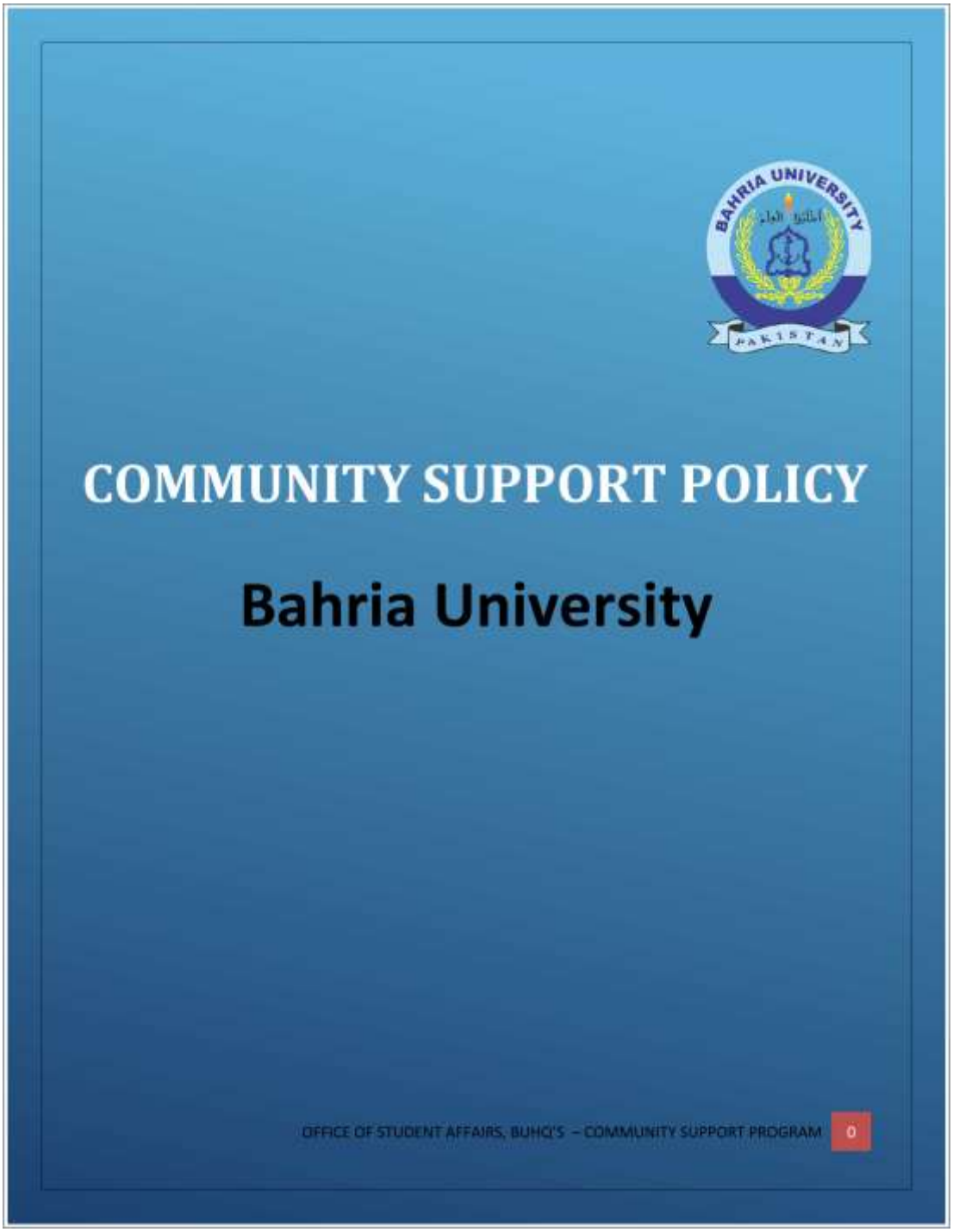


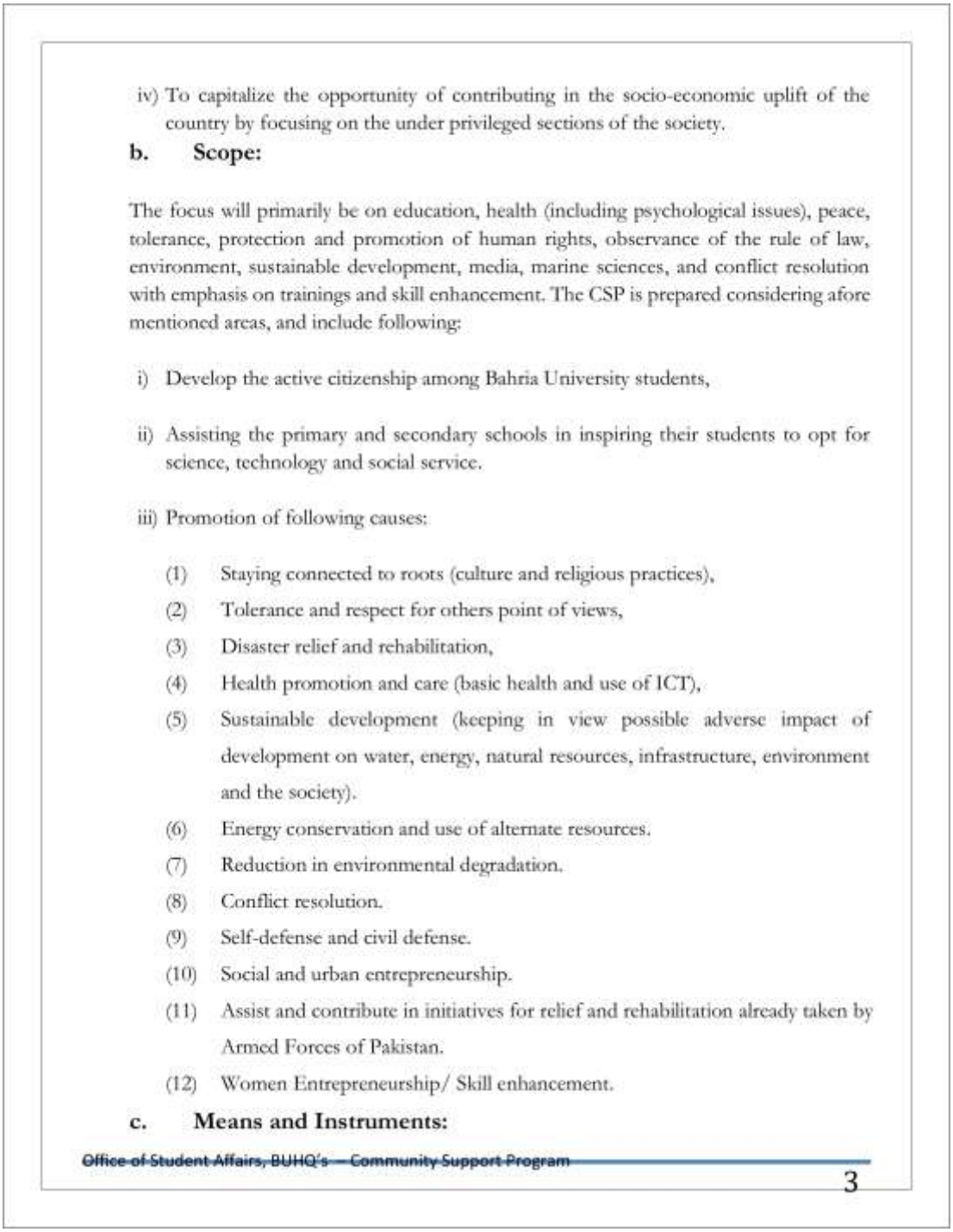
Figure 43: Community Support Policy, cover: Community Support Policy, Bahria University, Office of Student Affairs, Head Office.

8. Community Support Policy (continued)



Figure 44: Community Support Policy, page following the cover.

8. Community Support Policy (continued): pages cited



iv) To capitalize the opportunity of contributing in the socio-economic uplift of the country by focusing on the under privileged sections of the society.

b. Scope:

The focus will primarily be on education, health (including psychological issues), peace, tolerance, protection and promotion of human rights, observance of the rule of law, environment, sustainable development, media, marine sciences, and conflict resolution with emphasis on trainings and skill enhancement. The CSP is prepared considering afore mentioned areas, and include following:

i) Develop the active citizenship among Bahria University students,

ii) Assisting the primary and secondary schools in inspiring their students to opt for science, technology and social service.

iii) Promotion of following causes:

(1) Staying connected to roots (culture and religious practices),
(2) Tolerance and respect for others point of views,
(3) Disaster relief and rehabilitation,
(4) Health promotion and care (basic health and use of ICT),
(5) Sustainable development (keeping in view possible adverse impact of development on water, energy, natural resources, infrastructure, environment and the society).
(6) Energy conservation and use of alternate resources.
(7) Reduction in environmental degradation.
(8) Conflict resolution.
(9) Self-defense and civil defense.
(10) Social and urban entrepreneurship.
(11) Assist and contribute in initiatives for relief and rehabilitation already taken by Armed Forces of Pakistan.
(12) Women Entrepreneurship/ Skill enhancement.

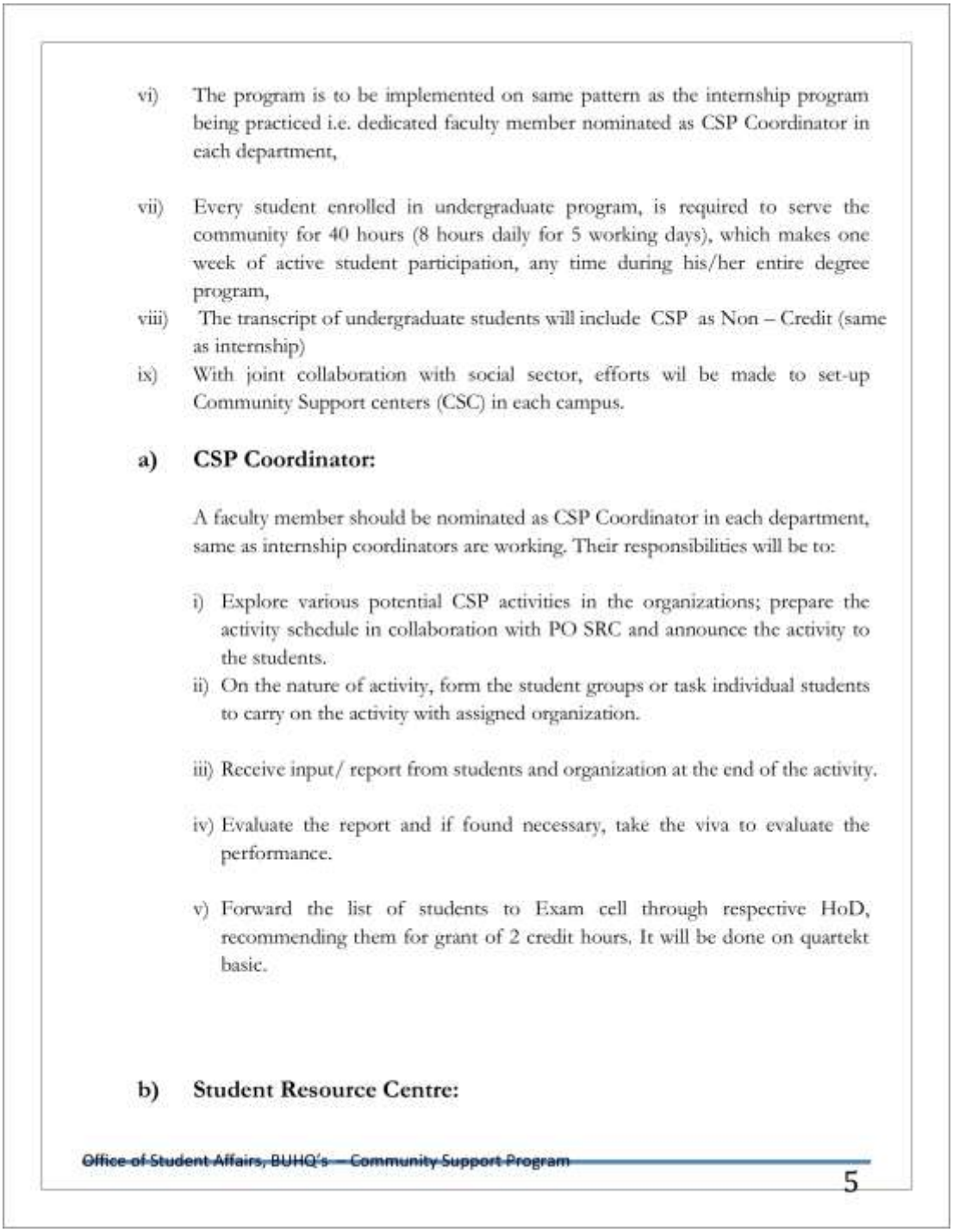
c. Means and Instruments:

Office of Student Affairs, BUHQ's — Community Support Program

3

Figure 45: Community Support Policy, page 3: para 2(b), Scope, including assistance to primary and secondary schools, sustainable development with regard to water, energy and natural resources, and energy conservation and the use of alternate resources.

8. Community Support Policy (continued): pages cited



vi) The program is to be implemented on same pattern as the internship program being practiced i.e. dedicated faculty member nominated as CSP Coordinator in each department,

vii) Every student enrolled in undergraduate program, is required to serve the community for 40 hours (8 hours daily for 5 working days), which makes one week of active student participation, any time during his/her entire degree program,

viii) The transcript of undergraduate students will include CSP as Non – Credit (same as internship)

ix) With joint collaboration with social sector, efforts wil be made to set-up Community Support centers (CSC) in each campus.

a) CSP Coordinator:

A faculty member should be nominated as CSP Coordinator in each department, same as internship coordinators are working. Their responsibilities will be to:

i) Explore various potential CSP activities in the organizations; prepare the activity schedule in collaboration with PO SRC and announce the activity to the students.

ii) On the nature of activity, form the student groups or task individual students to carry on the activity with assigned organization.

iii) Receive input/ report from students and organization at the end of the activity.

iv) Evaluate the report and if found necessary, take the viva to evaluate the performance.

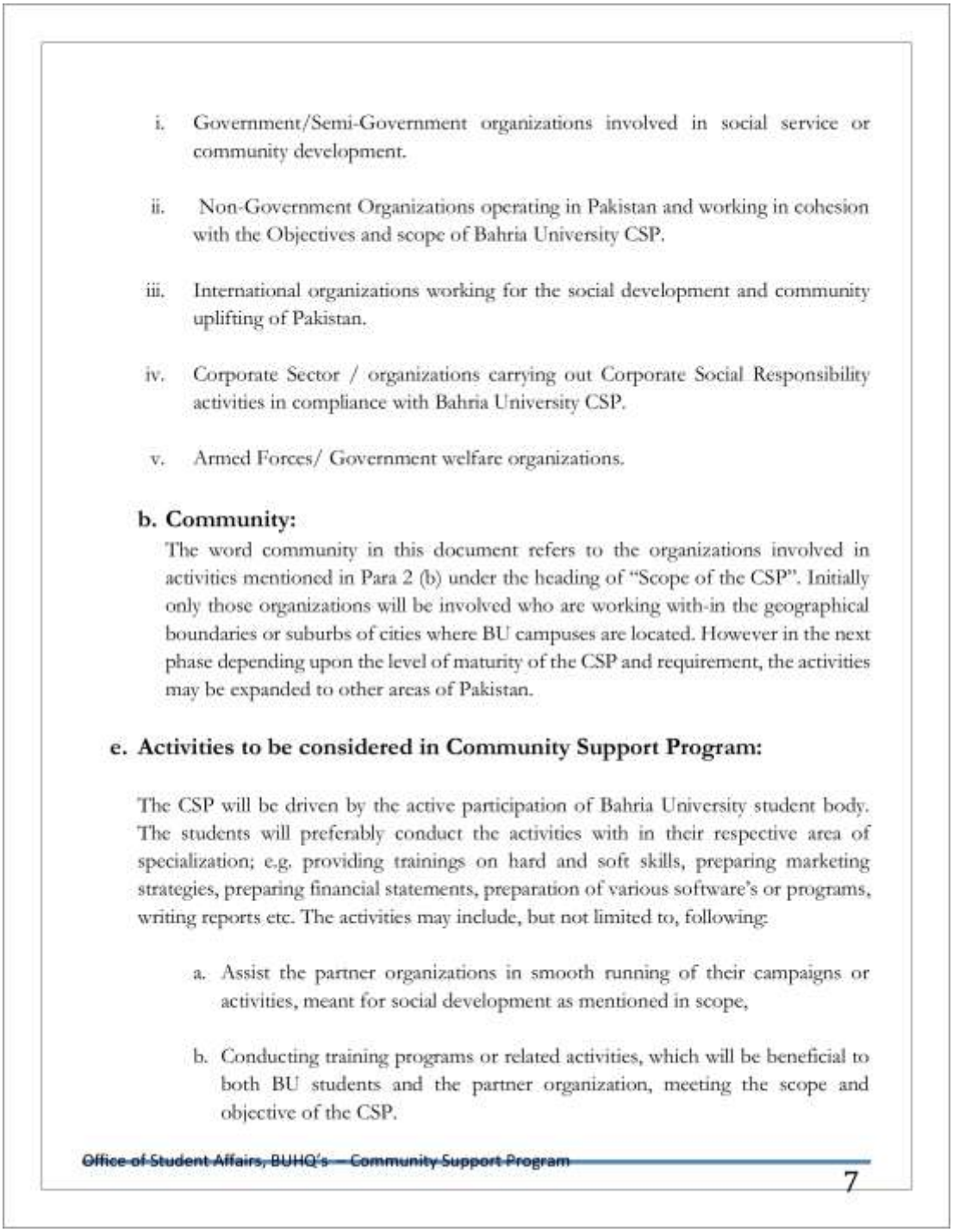
v) Forward the list of students to Exam cell through respective HoD, recommending them for grant of 2 credit hours. It will be done on quartekt basic.

b) Student Resource Centre:

Office of Student Affairs, BUHQ's – Community Support Program 5

Figure 46: Community Support Policy, page 5: para 2(d), Implementation Methodology, including community service of 40 hours for every undergraduate student and its record on the transcript.

8. Community Support Policy (continued): pages cited



i. Government/Semi-Government organizations involved in social service or community development.

ii. Non-Government Organizations operating in Pakistan and working in cohesion with the Objectives and scope of Bahria University CSP.

iii. International organizations working for the social development and community uplifting of Pakistan.

iv. Corporate Sector / organizations carrying out Corporate Social Responsibility activities in compliance with Bahria University CSP.

v. Armed Forces/ Government welfare organizations.

b. Community:

The word community in this document refers to the organizations involved in activities mentioned in Para 2 (b) under the heading of "Scope of the CSP". Initially only those organizations will be involved who are working with-in the geographical boundaries or suburbs of cities where BU campuses are located. However in the next phase depending upon the level of maturity of the CSP and requirement, the activities may be expanded to other areas of Pakistan.

e. Activities to be considered in Community Support Program:

The CSP will be driven by the active participation of Bahria University student body. The students will preferably conduct the activities with in their respective area of specialization; e.g. providing trainings on hard and soft skills, preparing marketing strategies, preparing financial statements, preparation of various software's or programs, writing reports etc. The activities may include, but not limited to, following:

a. Assist the partner organizations in smooth running of their campaigns or activities, meant for social development as mentioned in scope,

b. Conducting training programs or related activities, which will be beneficial to both BU students and the partner organization, meeting the scope and objective of the CSP.

Office of Student Affairs, BUHQ's – Community Support Program

7

Figure 47: Community Support Policy, page 7: para 4(b), Community, defined as organisations around the campuses, and Activities to be considered in the Community Support Program, including campaigns and training programmes.

9. Summary of evidence

Element	Evidence	Figures
Programme on energy efficiency open to the community	International Certificate Course on Energy Efficiency Measures for Ports and Shipping Industry, Karachi campus, 19 to 23 August 2024, open to maritime professionals and to students and faculty of other institutions as well as BU students and alumni	1 and 2
Awareness on responsible energy use	Awareness Session on Energy Consumption and Sustainability, Department of Management Studies and Community Support Program, Karachi campus, 27 November 2025	3 and 4
Clean energy in public programmes	4th International Maritime Symposium hosted by NIMA with the University, October 2024: clean energy initiatives, offshore wind and tidal power, green shipping technologies report; Green Tech for a Climate-Resilient Pakistan with PRCS Sindh, 10 October 2025: role of artificial intelligence in energy	5 to 30
NIMA programmes, 2025	Webinar on the IMO Net-Zero Framework for shipping (30 April 2025); blue economy sessions covering renewable energy for students of ALHAMD Islamic University (22 May 2025) and participants of the 8th Maritime Security Workshop (2 December 2025); International Maritime Conference with offshore energy (November 2025); green shipping technologies report	12 to 21; Table 2
Capacity building for professionals	CORE-CF seminars, trainings, workshops and executive learning on climate finance, sustainability and carbon management for organisational leaders, professionals and academia	31 to 34
University as a body	Sustainability and Climate Action Policy, effective 7 December 2025: engagement of local communities, climate education in schools and national awareness campaigns (para 7.2); campus sustainability managers engage local communities (para 4.3); CORE-CF capacity building and training (para 4.4); professional and executive education (para 6.1)	35 to 42
Student service to the community	Community Support Policy: 40 hours of community service for every undergraduate; causes promoted include energy conservation and use of alternate resources; community defined as organisations around the campuses	43 to 47

Taken together, the records show that Bahria University as a body provides programmes through which professionals, students of other institutions, partners and the wider public learn about energy efficiency and clean energy, through a certificate course on energy efficiency, an awareness session on responsible energy use, public symposium, conference, webinar and partner events addressing clean energy and the decarbonisation of shipping, the capacity-building services of CORE-CF and a mandatory student community service programme whose causes include energy conservation, under a policy that commits the University to engage local communities and support climate education.