

Bangladesh University of Professionals Mirpur Cantonment, Dhaka – 1216 FASS Pre-Seminar Proceedings Paper.

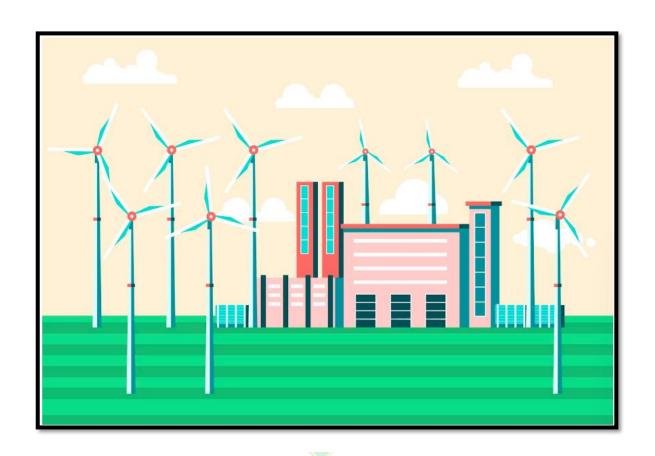
# PRE-SEMINAR PROCEEDINGS ON Green Industrialization for Sustainable Development: Prospects, Challenges, and Strategies

in the Context of Bangladesh

Organized by
Department of Development Studies
Faculty of Arts and Social Sciences (FASS)
Date: 30 May 2024

# **Pre-Seminar Proceeding On**

Green Industrialization for Sustainable Development: Prospects, Challenges, and Strategies in the Context of Bangladesh

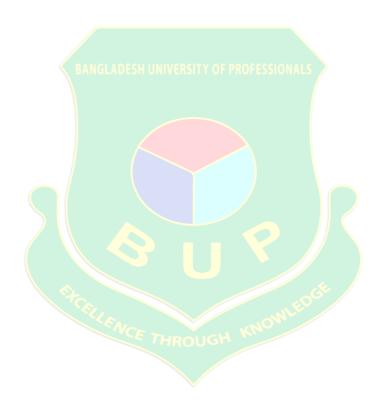


Organized by

Department of Development Studies Faculty of Arts and Social Science Bangladesh University of Professionals (BUP)

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#### Theme of the Seminar

The seminar on "Green Industrialization for Sustainable Development: Prospects, Challenges, and Strategies in the Context of Bangladesh" aims to explore the critical intersection between industrial growth and environmental sustainability. As Bangladesh continues to advance its industrial capabilities, the need to integrate green practices becomes increasingly vital. This seminar seeks to address the multifaceted dimensions of green industrialization, emphasizing its importance for sustainable development. The core of this theme revolves around understanding and implementing green industrial practices that not only promote economic growth but also ensure environmental preservation and social equity. Key discussions will include examining the current state of industrial practices in Bangladesh and their environmental impacts, identifying the challenges faced in adopting greener methods and exploring viable strategies and policies that can facilitate this transition. The seminar aims to inspire students, professionals, and policymakers to advocate for and implement sustainable industrial practices. The discussions will cover a range of topics from technological innovations and policy frameworks to financial mechanisms and community involvement, all aimed at fostering a holistic approach to green industrialization. By the end of the seminar, participants will gain a comprehensive understanding of how green industrialization can contribute to sustainable development, driving forward the economic, social, and environmental well-being of Bangladesh.

## **Seminar Schedule**

Time	Events	Venue
0930 hrs	Arrival of the Guests & Speaker	
0930-0935 hrs	Program Opening	
0935-0945 hrs	Welcome Address by Chairman DS &	
	Moderator of the Seminar Wg Cdr M	
	M Hassan, psc,PhD, ADWC	
	,FASS,BUP	
0945-0955 hrs	Session by Students	Bijoy Auditorium
0955-1055 hrs	Expert Session by Dr. Fahmida	
	Khatun	
1055-1105 hrs	Speech by Panel Speaker-1	
1105-1110 hrs	Speech by Panel Speaker-2	IAIS
1110-1155 hrs	Open Forum (Q & A Session)	
1155-1205 hrs	Closing Address by Dean FASS	
1205-1215 hrs	Souvenir Handover & Photo Session	
1215 hrs	Closure	



## **Moderator's Message**



WING COMMANDER
MD MAHAMUDUL HASSAN, PSC, Ph.D.
Chairman,
Department of Development Studies,
Faculty of Arts & Social Science (FASS),
Bangladesh University of Professionals

DESH UNIVERSITY OF PROFESSIONALS

Assalamu Alaikum and Welcome to the Seminar on "Green Industrialization for Sustainable Development: Prospects, Challenges, and Strategies in the Context of Bangladesh"

Distinguished Vice Chancellor, Pro Vice Chancellor, Dean, our esteemed keynote speaker Dr. Fahmida Khatun, Executive Director of the Centre for Policy Dialogue, respected colleagues, and my dedicated students,

It is my great pleasure to welcome you all to this significant seminar. At the outset, I wish to express my profound respect for the legacy of the father of the nation, Bangabandhu Sheikh Mujibur Rahman, his family, and the three million martyrs who sacrificed their lives for Bangladesh.

Today, we gather to discuss an imperative topic that resonates deeply with the global and national agenda: Green Industrialization. This concept is not merely a vision but a tangible reality, one that we must strive to achieve for the future sustainability of our nation. Green industrialization is a key driver for achieving the Sustainable Development Goals (SDGs), particularly in fostering economic growth, job creation, and sustainability. This theme emerged prominently from the Rio+20 Summit in 2012, highlighting the need for transitioning to sustainable industrial practices across various sectors.

Our journey towards green industrialization in Bangladesh began with the Renewable Energy Policy of 2008, aiming to harness the power of nature. Although we set an ambitious target to generate 10% of our electricity from renewable sources by 2020, we achieved around 3%, which serves as a solid foundation for future efforts. Policies such as the National Industrial Policy 2016 and 2022, and initiatives like the relocation of tanneries from Hazaribagh to Savar, exemplify our commitment to this cause.

With support from JICA, the Power System Master Plan 2016 was developed, outlining a strategic route for energy efficiency and green energy. The Mujib Climate Prosperity Plan 2030 further sets ambitious goals, aiming for a 30% renewable energy share by 2030 and 40% by 2041. Programs like the Solar Power Development Program and the National Solar Energy Action Plan 2041, which aim for 40 GW of renewable energy capacity, demonstrate our proactive approach.

Ladies and gentlemen, as we celebrate 50 years of partnership with the World Bank, projects like SUFAL have shown how sustainable interventions can transform lives. Both male and female students must work hand in hand to lead green industrialization efforts. Our creative, intelligent, and committed students must be the beacon of hope and determination for sustainable development in Bangladesh.

One crucial step is the implementation of waste treatment plans by industries. Many industries still need to establish their Effluent Treatment Plants (ETPs), and while Bangladesh is working to reduce greenhouse gas emissions, more efforts are needed. Green financing and incentives must be expanded, including tax exemptions for investments in environmentally friendly equipment.

Our government is developing 100 economic zones that will provide necessary services for green industrialization, including ETPs. However, the route to green industrialization is fraught with challenges such as lack of awareness, limited access to green technologies, and the need for significant infrastructure investment. Overcoming these challenges requires comprehensive strategies, education, international partnerships, and constructive policies.

Dear students, your journey has just begun. Embrace the challenges and opportunities that lie ahead. We must plan eco-friendly industrialization and protect our agricultural lands, water bodies, and forests. Increasing the share of renewable energy and safeguarding the environment is paramount.

Let's embark on this green journey together, ready to transform our city, country, and the world. I extend my gratitude to Dr. Fahmida Khatun, my colleagues, and all participants for your presence. Our subsequent speakers will delve further into the prospects, challenges, and strategies of green industrialization.

Thank you.

## **Profile of the Keynote Speaker**



Dr. Fahmida Khatun Executive Director Centre for Policy Dialogue (CPD)

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Dr. Fahmida is the Executive Director of the Centre for Policy Dialogue (CPD), a leading think tank in Bangladesh and South Asia. With a distinguished career in economics, Dr. Fahmida's expertise spans macroeconomic policy, climate change, environment, energy economics, green economy, international development finance, aid effectiveness, international trade and WTO issues, digital economy, youth employment, health issues, interests of Least Developed Countries (LDCs), Sustainable Development Goals (SDGs), and women's contribution to the economy.

Dr. Fahmida completed her PhD in Economics from UCL, University of London, UK, and pursued post-doctoral research at Columbia University, USA, as a Fulbright Scholar, where she conducted joint research with Professor Jeffrey Sachs. She has also participated in a Leadership Decision Making program at Harvard University, USA.

From December 2022 to December 2023, Dr. Fahmida served as the Co-Chair of the T20 India Task Force on "Accelerating SDGs: Exploring New Pathways to the 2030 Agenda" to the G20. She is a member of the High-level Advisory Board on Productive Capacities Index (PCI) of the United Nations Conference on Trade and Development (UNCTAD) and the Governing Body of BRAC, the world's largest non-governmental organization working for the poor and marginalized.

Before joining CPD, Dr. Fahmida worked as a Research Fellow at the Bangladesh Institute of Development Studies (BIDS), an Environment Specialist for UNDP, and an Economist for the USAID Mission in Bangladesh. She has also taught economics at universities in Bangladesh and England and held visiting fellow positions at the Christian Michelsen Institute (CMI), Norway, the Center for Study of Science, Technology and Policy (CSTEP), India, and the Korea Institute for

Industrial Economics and Trade (KIIET), South Korea. Additionally, she serves on the editorial board of the Indian Journal of Human Development (JHD).

Dr. Fahmida has been a member of the Panel of Economists for the Eighth Five-Year Plan (2021-25) formed by the Bangladesh Planning Commission and the Advisory Committee for the National Human Development Report prepared by the Economic Relations Division of the Government of Bangladesh. She was also a Director of Janata Bank Limited, the second-largest state-owned bank in Bangladesh, and a Director of the SME Foundation of Bangladesh.

Dr. Fahmida is a prolific writer, with numerous publications both domestically and internationally. She is a regular columnist for The Daily Star, a leading daily in Bangladesh, and contributes to the East Asia Forum. She has hosted popular talk shows on national television and was a regular contributor to BBC Bangla at BBC World Service in London from 1991 to 1996. Dr. Fahmida is frequently invited to speak on economic issues by national and international media, including The Economist, BBC World Service Television and Radio, Voice of America Radio, and Al-Jazeera Television.

Her extensive research and contributions to economic discourse make Dr. Fahmida an invaluable keynote speaker for the seminar on "Green Industrialization for Sustainable Development: Prospects, Challenges, and Strategies in the Context of Bangladesh." Her insights will undoubtedly inspire and guide the discussions towards actionable strategies for sustainable development in Bangladesh and beyond.

#### Profile of the Moderator



WING COMMANDER MD MAHAMUDUL HASSAN, PSC, Ph.D. (Taylor's University, Malaysia)

#### Chairman

Department of Development Studies Faculty of Arts & Social Science (FASS) Bangladesh University of Professionals

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Wing Commander Md Mahamudul Hassan, PSC, PhD, serves as the Chairman at the Department of Development Studies within the Faculty of Arts & Social Sciences (FASS) at Bangladesh University of Professionals. He completed his PhD in Management between 2018 and 2020 at Taylor's University, Malaysia, a prestigious institution renowned for its ranking within the top 100 QS World University Rankings for the subject area. During his doctoral studies, Dr. Hassan was deeply involved in the Centre for Higher Degree in Research (CHDR) at Taylor's University, where he facilitated significant research initiatives and assumed a part-time teaching role, focusing primarily on research methodology. This role not only allowed him to influence the university's standing positively but also to foster robust educational and research initiatives within the center.

Dr. Hassan's academic and research pursuits have covered a wide array of multidisciplinary fields, including leadership, management, human resources management, work-life balance, job satisfaction, employee retention, marketing, administration, social sciences, world peace, conflict, human rights, public health management, security studies, security management, development studies, strategic studies, communication, and military studies. His scholarly contributions include authoring over 18 accredited indexed journal articles across various multidisciplinary fields in Q1, Q2, and Q3 SCOPUS/IS Indexed International Reputed Journals, showcasing his extensive research experiences and his ability to address complex topics relevant to modern challenges in management and social sciences.

In addition to his academic roles, Dr. Hassan has played a significant part on the Board of Post-Graduate Studies and Research (BPGSR) at Bangabandhu Sheikh Mujibur Rahman Aviation and Aerospace University (BSMRAAU) from 2020 to 2023, where he contributed to strategic academic and research planning. His commitment to applying academic research to practical

challenges is further demonstrated by his roles in various United Nations missions, where he served as a training officer in regions such as Western Sahara and the Central African Republic. These positions enabled him to contribute actively towards the oversight and advancement of research endeavors in challenging settings, enhancing his understanding of global issues and the application of sustainable practices in diverse environments.

Dr. Hassan's professional and academic experiences make him an exemplary figure to moderate the seminar on "Green Industrialization for Sustainable Development: Prospects, Challenges, and Strategies in the Context of Bangladesh." His background in sustainable development practices, combined with his leadership in academic and field-based research, aligns closely with the seminar's aim to explore sustainable industrial growth. As the moderator, Dr. Hassan is uniquely positioned to guide discussions that delve into the integration of green practices within industrial sectors, advocating for policies that promote economic growth, environmental preservation, and social equity. His insights are expected to enrich the dialogue, drawing on his comprehensive research background and practical experiences to foster a nuanced understanding of how green industrialization can be realized in Bangladesh and similar contexts globally.

The seminar will benefit immensely from Dr. Hassan's leadership, as he facilitates discussions among experts, policymakers, academics, and students, bridging theoretical knowledge with practical applications to achieve sustainable development goals. His role as moderator underscores his commitment to educating and inspiring future leaders and practitioners in the field of green industrialization, setting a foundational tone for the transformative discussions that will shape the seminar's outcomes.



#### **Profile of Panellist I**



#### MD. ZAHIDUR RAHMAN

Assistant Professor Department of Development Studies Faculty of Arts & Social Science (FASS) Bangladesh University of Professionals

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Md. Zahidur Rahman serves as an Assistant Professor and the Graduate Coordinator of the Master of Development Studies (MDS-Professional) Program at the Department of Development Studies, Bangladesh University of Professionals (BUP). He completed his Bachelor of Social Sciences (BSS) and Master of Social Sciences (MSS) in Development Studies at the University of Dhaka, followed by a Master of Science (MS) in Applied Economics from Illinois State University, USA, as a Fulbright Scholar.

Prior to joining BUP, Md. Zahidur Rahman was engaged as a Staff Researcher in the Development Economics Research Unit of BRAC's Research and Evaluation Division and has worked with international organizations such as GIZ, OXFAM, UNDP Bangladesh, and the BRAC Institute of Governance and Development (BIGD) in various research capacities. Additionally, he is affiliated with Unnayan Onneshan—an independent research think tank in Dhaka—as an Adjunct Researcher.

His extensive research portfolio includes work on economic development, poverty and inequality, international trade, labor markets, and the informal economy, making him a valuable panelist for discussions on green industrialization and sustainable development strategies in the context of Bangladesh for the seminar.

#### **Profile of Panellist II**



#### Shashish Shami Kamal

Assistant Professor Department of Development Studies Faculty of Arts & Social Science (FASS) Bangladesh University of Professionals

VERSITY OF PROFESSIONAL:

Shashish Shami Kamal is an Assistant Professor in the Department of Development Studies at Bangladesh University of Professionals (BUP). He commenced his educational journey at Udayan Higher Secondary School and College, followed by Notredame College in Dhaka. Shashish pursued his higher studies in Development Studies, earning both his Bachelor of Social Sciences (BSS) and Master of Social Sciences (MSS) from the University of Dhaka. His academic achievements were acknowledged with a Commonwealth Scholarship that supported his pursuit of an MSc in the Political Economy of Development at the School of Oriental and African Studies (SOAS), University of London.

Prior to joining BUP, he worked as a Research Associate (RA) at the Centre for Policy Dialogue (CPD). He also worked on the research projects of Johns Hopkins Bloomberg School of Public Health (JHSPH), UNDP Bangladesh, CMMS, GIZ, Centre on Budget and Policy (CBP), and BRAC Institute of Governance and Development (BIGD).

His research interests include the political economy of development, institutional economics, and industrial policy. Shashish's understanding of local political settlements and policy challenges makes him a valuable contributor to dialogues on sustainable development and industrialization strategies, particularly in the context of Bangladesh.

## **Session by the Students**



Syeda Maliha Tasnim (Batch DS 2021) Mursalin Fardin (Batch DS 2023)

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Students from the Department of Development Studies at Bangladesh University of Professionals (BUP) will present their in-depth exploration titled "Nurturing the Green Industrialization in Bangladesh—Strategies Based on Country-Specific Cases." This presentation will delve into the dynamic interplay between economic development and environmental sustainability, focusing on the strategic implementation of green industrialization within Bangladesh.

The student-led discussion will open with a detailed definition of green industrialization, emphasizing its role in fostering sustainable economic growth while ensuring environmental preservation. They will illustrate how this approach not only supports economic dynamism and resource optimization but also significantly enhances public health and improves the global reputation of businesses committed to sustainable practices.

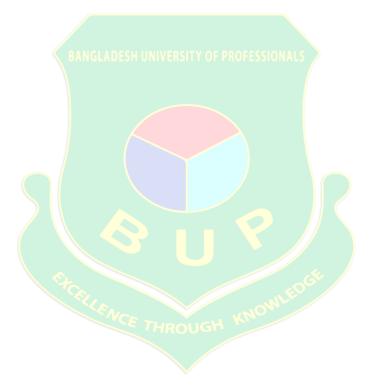
Attendees can look forward to a well-rounded analysis that highlights the current achievements within Bangladesh, such as the impressive number of LEED Certified factories and their global rankings. The presentation will not shy away from the critical challenges that face green industrialization efforts, including high upfront investment costs, technological hurdles, and gaps in workforce skills which are crucial for advancing this agenda.

Students will propose forward-looking strategies to overcome these barriers, drawing inspiration from successful global examples like the integration of CSP and PV technologies observed in Morocco's Noor Complex. This case study will serve as a benchmark for discussing potential technological integrations that could drive renewable energy solutions and industrial growth in Bangladesh.

The presentation will also feature a local case study on the Green Field Factory of Karupannya Rangpur Limited, showcasing how thoughtful, sustainable industrial design can lead to substantial energy savings and a cooler working environment, which is crucial in Bangladesh's climate.

Moreover, the students will address innovative international practices, such as the development of "vertical forest" towers in Nanjing, China, demonstrating how urban green initiatives can effectively contribute to carbon absorption and oxygen production.

This segment of the seminar promises to be a rich source of discussion, offering attendees a glimpse into the potential paths for implementing green industrialization strategies that are not only viable but essential for Bangladesh's sustainable development. The students' presentation aims to inspire, inform, and invoke dialogue about transforming industrial practices through sustainable development lenses, paving the way for a greener and more prosperous future.



#### **Discussion Themes**

## **Keynote Speaker**



Dr. Fahmida Khatun

Executive Director

Centre for Policy Dialogue (CPD)

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The keynote address by Dr. Fahmida Khatun, Executive Director of the Centre for Policy Dialogue (CPD), promises to be a cornerstone of the seminar titled "Green Industrialization for Sustainable Development: Prospects, Challenges, and Strategies in the Context of Bangladesh." Her presentation will draw upon various issues, including, the findings of the comprehensive report on securing the green transition of the textile and Ready-Made Garments (RMG) sector in Bangladesh, providing a nuanced discussion on how these insights can be applied to broader industrial contexts within the country.

Dr. Fahmida will begin by emphasizing the critical importance of green industrialization as a pathway to achieving sustainable development in Bangladesh. With the nation's textile and RMG sectors contributing significantly to its economy, there is a pressing need to align industrial growth with environmental sustainability. Green industrialization integrates eco-friendly practices in industrial operations, aiming to reduce environmental impacts while fostering economic resilience and growth. This approach is essential for meeting international sustainability standards and ensuring the long-term viability of Bangladesh's industrial sectors.

The keynote will highlight the potential benefits of green industrialization in Bangladesh. Dr. Fahmida will discuss how adopting green practices can lead to cost reductions through improved

efficiency and waste management, enhance public health by reducing pollution, and bolster the global competitiveness of Bangladeshi products by meeting the stringent environmental standards of international markets. She will underscore the role of innovative technologies and renewable energy solutions in driving this transformation, using successful case studies from the textile and RMG sector to illustrate these prospects.

Dr. Fahmida will address the numerous challenges facing the green transition in Bangladesh. These include high initial investment costs, technological barriers, and a lack of skilled workforce capable of implementing and maintaining green technologies. She will discuss the regulatory and policy obstacles, such as fragmented policies and weak enforcement mechanisms, that hinder the adoption of sustainable practices. The challenges of financing green initiatives, particularly for small and medium-sized enterprises (SMEs), will also be explored, highlighting the need for accessible green financing solutions.

To navigate these challenges, Dr. Fahmida will outline strategic initiatives necessary for fostering green industrialization. She will advocate for the development of a cohesive national strategy that includes clear goals, timelines, and responsibilities. This strategy should be supported by robust policy frameworks and coordinated efforts among government agencies, industry bodies, and international partners. Dr. Fahmida will emphasize the importance of creating economic incentives, such as tax breaks and subsidies, to encourage industries to adopt green practices. She will also highlight the role of green financing mechanisms, including credit guarantees and green bonds, in making sustainable investments more accessible to businesses.

A significant focus of the keynote will be on the importance of skill development and capacity building. Dr. Fahmida will discuss the need for targeted training programs to equip the workforce with the necessary skills for green industrial practices. She will propose the establishment of a green skills development fund to support these training initiatives, particularly for SMEs. The role of educational institutions and industry associations in providing ongoing technical support and knowledge sharing will be highlighted as crucial elements in building a competent and sustainable industrial workforce.

Dr. Fahmida will delve into the market and institutional barriers that impede the green transition. She will propose solutions to overcome these barriers, such as enhancing market-driven incentives and creating platforms for knowledge exchange. Addressing institutional weaknesses, such as the need for stronger regulatory enforcement and better coordination among stakeholders, will be a key part of her strategy recommendations. She will also discuss the importance of public-private partnerships in driving innovation and scaling up successful green initiatives.

Dr. Fahmida will present detailed case studies that illustrate the successful implementation of green industrial practices. These examples will include both local and international instances where sustainable industrial strategies have led to significant economic and environmental benefits. The Noor Solar Power Complex in Morocco and the Green Field Factory of Karupannya Rangpur Limited in Bangladesh will serve as primary case studies, demonstrating

the feasibility and benefits of integrating renewable energy and sustainable design in industrial operations.

Dr. Fahmida will emphasize the collective responsibility of the government, industry, academia, and civil society to drive the green industrialization agenda. Highlighting the urgent need to act, she will outline immediate steps that can be taken to kickstart the transition, such as policy reforms, investment in green technologies, and collaborative efforts to enhance regulatory frameworks.

Connecting her discussion to the broader theme of sustainable development, Dr. Fahmida will underscore the integral role of green industrialization in achieving the Sustainable Development Goals (SDGs). She will illustrate how sustainable industrial practices can contribute to multiple SDGs, including decent work and economic growth (SDG 8), industry, innovation, and infrastructure (SDG 9), and climate action (SDG 13). By aligning industrial policies with these goals, Bangladesh can ensure a holistic approach to sustainable development that benefits the economy, society, and environment.

This keynote address by Dr. Fahmida Khatun promises to be a pivotal session at the seminar, offering deep insights into the strategies needed to achieve green industrialization in Bangladesh. It will provide attendees with a comprehensive understanding of the challenges and opportunities in this area, inspiring them to engage in meaningful discussions and take actionable steps towards a sustainable future.



## **Discussion Theme**

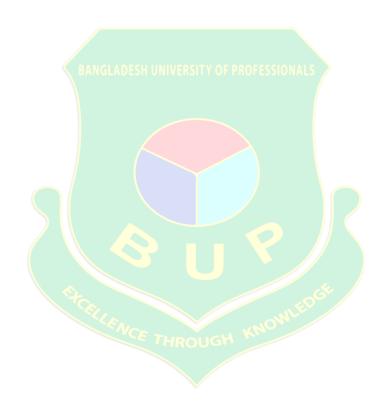
## Panellist I



### MD. ZAHIDUR RAHMAN

Assistant Professor Department of Development Studies Faculty of Arts & Social Science (FASS) Bangladesh University of Professionals

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#### **Discussion Theme**

#### Panellist II



#### Shashish Shami Kamal

Assistant Professor Department of Development Studies Faculty of Arts & Social Science (FASS) Bangladesh University of Professionals

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Shashish Shami Kamal, Assistant Professor at the Department of Development Studies, Bangladesh University of Professionals (BUP), will provide a conceptual discussion on the viable pathways for developing countries towards sustainable development.

Shashish will begin by presenting a brief overview of the current state of industrial pollution in Bangladesh. He will highlight some key statistics and evidence that illustrate the severe environmental degradation caused by pollutant industries. This segment will focus on the alarming levels of air, water, and soil pollution, particularly in industrial zones, and the detrimental effects these pollutants have on public health and the environment. The discussion will underscore the urgency of addressing these issues to ensure sustainable development.

Moving forward, Shashish will discuss the concept of negative externalities within the Bangladeshi economy. He will explain how industrial activities often lead to external costs that are not accounted for by the firms, such as environmental damage and health issues. However, unlike developed countries, Bangladesh's industrial firms are typically low-capability and financially vulnerable. Traditional policy measures for addressing negative externalities, such as heavy taxation and stringent regulations, are often unfeasible in this context. Shashish will argue that these measures could hinder economic development goals by exacerbating financial strains on these firms, leading to reduced production and potential job losses.

To address these challenges, Shashish will discuss the strategic shift towards greener technology-based industrialization. While taxation and regulation can play roles, they must be balanced with the need to support economic growth. The key solution lies in promoting the adoption of green

technologies that can reduce pollution without significantly hampering industrial productivity. Shashish will discuss the potential benefits of green technologies, including improved efficiency, reduced emissions, and enhanced competitiveness in international markets.

However, the next discussion will acknowledge the significant barriers to adopting green technologies. These include high upfront costs, limited access to advanced technologies, and a lack of technical expertise among the workforces. To overcome these obstacles, he will emphasize the need for robust support from the government, financial institutions, and global corporate governance.

Shashish Shami Kamal's presentation will offer a conceptual discussion on the balanced approach to mitigating these issues through the adoption of green technologies. By highlighting the importance of government support, capacity building, and collaborative efforts, his discussion aims to inspire actionable steps towards achieving sustainable industrial development in Bangladesh. Attendees will gain insights into the conceptual ideas that are needed to understand the solutions that can drive positive change in the country's industrial landscape.



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