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## Essay Technique (Part-2)

# 21 Essays: At a Glance

### নির্দেশনা:

ইতোপূর্বে *Essay Technique (Part 1)*-এ আমরা যে টেকনিকটি রপ্ত করেছিলাম সেটির সাথে সমন্বয় করে *Part-2* ডেভেলপ করা হয়েছে। আমরা দীর্ঘদিন ধরে অনুবাদ কৌশলের মাধ্যমে ফ্রি হ্যান্ড রাইটিং প্র্যাকটিস করেছি। অতএব এই মুহূর্তে আমরা যদি গুরুত্বপূর্ণ রচনার পয়েন্টগুলো ভালোভাবে মনে রাখতে পারি, তাহলে ফ্রি হ্যান্ড রাইটিংয়ের মাধ্যমে একটি রচনা ডেভেলপ করতে খুব বেশি কঠিন হবে না। তাই এখন নিম্নোক্ত রচনার পয়েন্টগুলো খুব ভালোভাবে মুখস্থ করে নাও এবং প্রয়োজন মনে হলে এভাবে নিজের মত করে আরও দুয়েকটি রচনার পয়েন্ট ও কোটেশন সাজিয়ে নাও।

 Sharif Hossain Ahmad Chowdhury (+1 716-279-7507 Whatsapp)

1. Impact of Climate Change/ Global Climate Crisis/ Green House Effect
2. ICT Development in Bangladesh
3. Food Crisis: Reasons and its Impact
4. Delta Plan-2100
5. Communal Harmony
6. Woman Empowerment
7. The Need for Renewable Energy/Energy Crisis
8. Fourth Industrial Revolution
9. Mega Projects and the Way of Development/ Development Activities
10. Sustainable Development Goals and Bangladesh
11. E-Governance and Bangladesh
12. Liberation War
13. Green Economy/ Green Revolution and its impact
14. Blue Economy
15. Refugee Crisis: A Global Threat
16. RMG Sector and Economic Development of Bangladesh
17. Cultural Heritage of Bangladesh
18. Cyber Crime: Causes & Remedies
19. Rohingya Repatriation Crisis and Bangladesh
20. Global Economic Crisis: Perspective Bangladesh

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অনুমতি ছাড়া এই শিটটি কারো  
সাথে শেয়ার করা সম্পূর্ণ অনুচিত।

# 1. Impact of Climate Change/ Global Climate Crisis/ Green House Effect

“Climate change is a terrible problem and it absolutely needs to be solved.

It deserves a huge priority.” - *Bill Gates*

“Climate change is no longer some far-off problem; it is happening now.”

- *Barack Obama*

“We are here to learn from Bangladesh’s experiences and vision, when it comes to adaptation, our best teachers are opened doors who are on the front lines of climate change.” -*Former United Nations secretary general Ban-Ki-Moon*

Climate change does not respect border; It does not respect who you are-rich and poor, small and big. Therefore, this is what we call global challenges, which requires global solidarity. Ban-Ki-Moon (Ex general secretary of UN)

## (1) Introduction

**(2) What is climate change:** Climate change refers to long-term shifts in temperatures and weather patterns. These shifts may be natural, but since the 1800s, human activities have been the main driver of climate change, primarily due to the burning of fossil fuels (like coal, oil and gas), which produces heat-trapping gases.

## (3) Factors of climate change

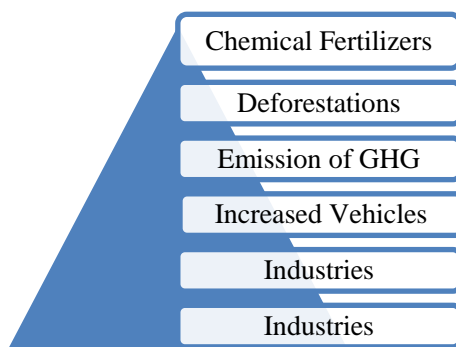
Latitude,	Location of forest
Arrangement and physical structure of soil	
Sea wave,	Air flow,
Sea level height,	

**(4) Differences between weather and climate**

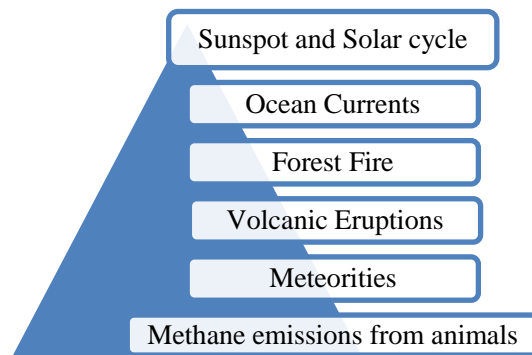
<b>Weather</b>	<b>Climate</b>
<b>1. It is the study of atmospheric conditions for a short period of time.</b>	<b>1. It is the study of the average weather condition observed over a long period of time.</b>
<b>2. It is short term phenomenon.</b>	<b>2. It is a long term phenomenon.</b>
<b>3. Weather changes frequently.</b>	<b>3. It does not change frequently.</b>
<b>4. It depends on a smaller areas like district or state.</b>	<b>4. It depends on a larger area like state or country.</b>

**(5) Causes of climate change**

Anthropogenic causes



Natural Causes



**(6) Natural impact of climate change**

Global warming & Sea-level Rise : 27million BD people at risk by 2050. - IPCC

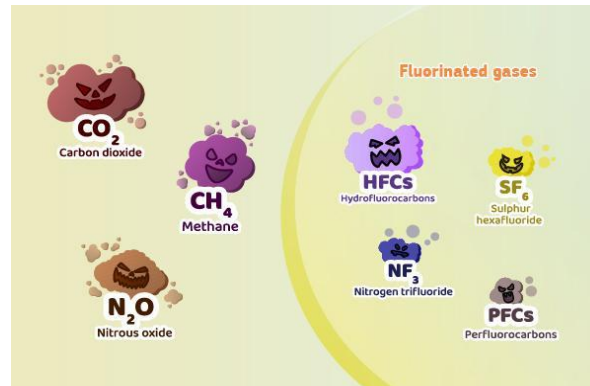
Flood : 40% productive land will lost in southern region BD by 2080. -IPCC

Cyclones : 1877-1995 BD hit by total 154 cyclones.

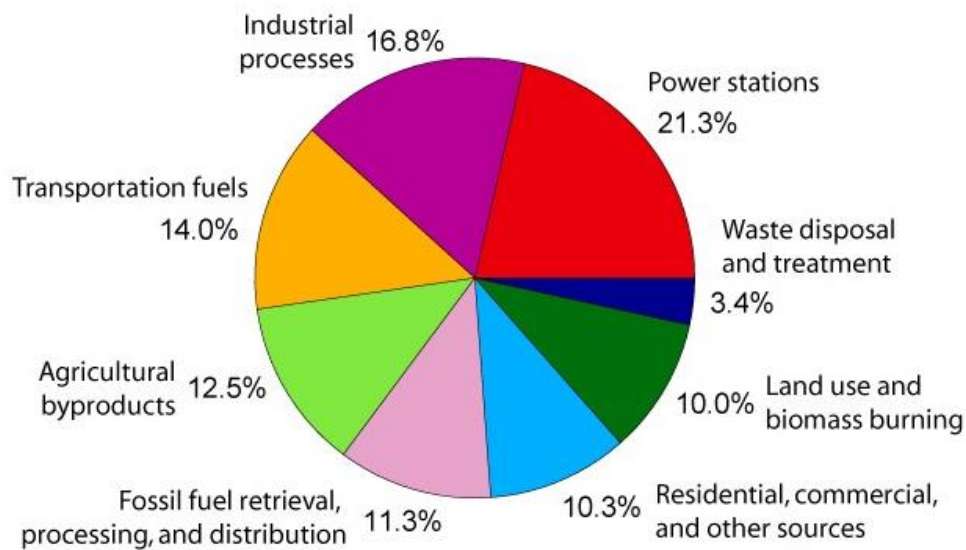
Draught

River Bank Erosion

**(7) Impacts of Green House effect on climate change:** by trapping heat.



Green House Gases



Source: ScienceDirect.com

**(8) Most carbon emitting countries**

Top CO<sub>2</sub> Emitting countries in 2023:

China

USA

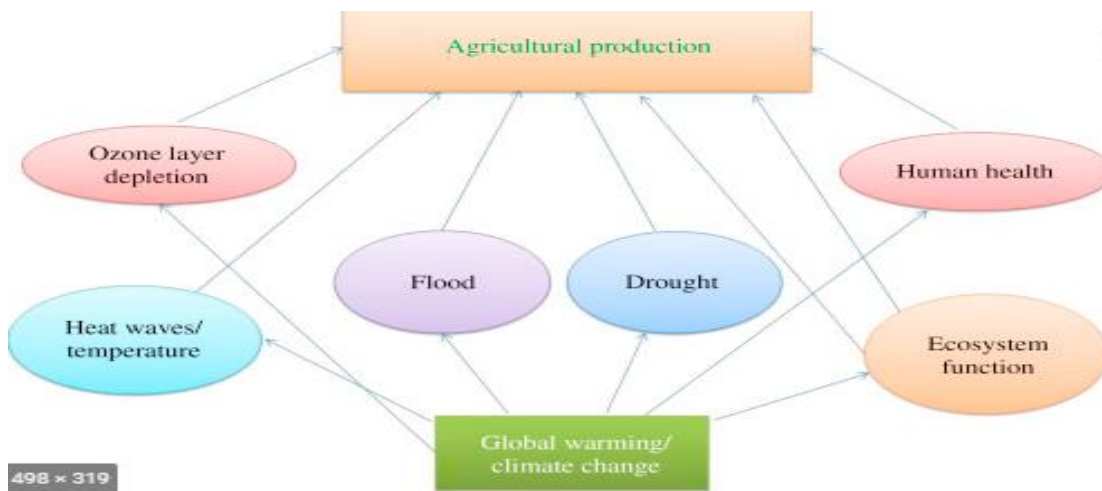
India

Top GHG emitting countries in 2023:

-China -USA -India

**(9) Adverse effects of change**

- Melting ice of polar region
- Sea level rise
- Increasing temperature
- Increasing no of natural disaster
- Expansion of climate Refugee
- Excessive rainfall or less rainfall
- Introduction of saline water
- Low agricultural production rate
- Introduction of new disease
- Rising pattern of thunderstorm & earthquake
- f. Infertility of agricultural land
- g. Emergences of some diseases
- h. Food insecurity
- I. Migration



Source: ScienceDirect.com

## **(10) Bangladesh`s Greenhouse gas Emissions profile**

Greenhouse effect: Global warming

Human influence on the greenhouse effect

Carbon Di Oxide emissions of various countries

## **(11) Future projection of climate change impact in Bangladesh**

Crop Production & food security : Decrease 30% in 2100.

Salinity : will increase in Bagerhat, Khulna, Satkhira. 13% to 16% in 2050; 18% in 2100.

Mangrove Forest : if sea level increase 45cm ,then 75% M.F will submerse.

Fisheries : >32°C shrimps fingerlins death

Climate refugee or Migration

Sea level Rise

Biodiversity

## **(12) Climate change and Bangladesh**

Climate Trust Fund: BCCTF, BCCRF

Coastal Green Belt

Delta Plan-2100

NPDM (National Plan for Disaster Manegement)

National Biodiversity & Action Plan 2017

SDG & BD: 13,14,16 no points

BCCSAP

NAPA

**(13) International initiatives on protection of climate change**

Earth Summit : 1992, Rio De Janeiro, Brazil

Montreal Protocol :1987-1989 , Montreal, Canada

Kyoto protocol : 1997, Kyoto, Japan.

COP: COP-27 held on Sharm-El-Sheikh, Egypt

Paris Agreement: 4<sup>th</sup> November 2016

Carbon Trade

**Carbon TAX**

**Net Zero**

Climate Diplomacy

**(14) Bangladesh role in International Climate change Negotiation:**

Need Adaption program, plan for climate refugee, capacity building etc.

**(15) Conclusion:** “Climate change is destroying our path to attain sustainability.”

*-Ban Ki Mon*

## 02. ICT Development in Bangladesh

“We are on the brink of a new industrial revolution that will be shaped by the rapid expansion of information and communication technology.” -Chief Adviser Dr. Muhammed Yunus.

1. Digital center established ---- 52751
2. Optical Fiber cable Internet users --- 23500km
3. Tele—density---99%
4. Hi-Tech park –28
5. Satellite country – 57<sup>th</sup>

### 1. What is ICT:

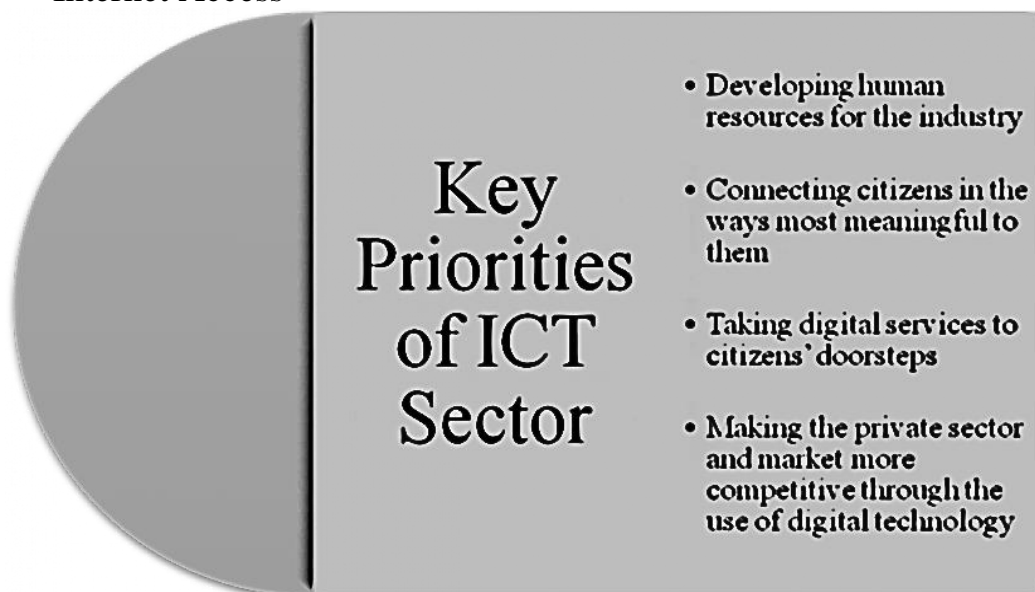
“Technology is just a tool. In terms of getting the Kids working together and motivating them, the teacher is the most important.” - Bill Gates.

ICT is a combination of different communication device. It is basically referred to as those Technologies which provide access to information by means of telecommunication.

### 1. Component of ICT:

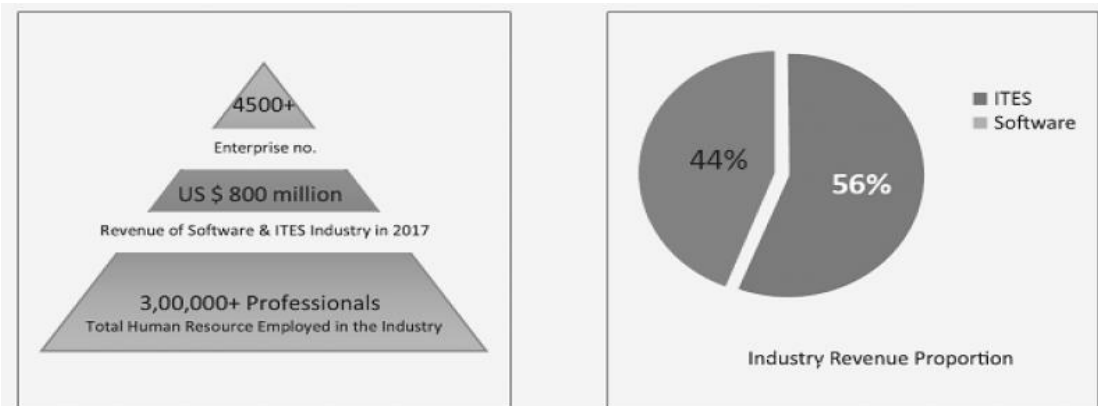
- Cloud computing
- Software
- Hardware
- Communication Technology
- Data
- Internet Access

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## 2. ICT Sector: A new driver of economic growth:

- ICT professional--- 1.3 million
- ICT entrepreneurs –10,000
- Earn -- \$300 million
- ICT out sourcing total size -- \$3.6 million in 2023
- Annually grown – 40% [UNCTAD,2023]



## 3. Export earnings from, ICT sector:

- Software export—1.1 billion in 2023
- Software export--- 800 million in 2017

“ICT export of Bangladesh is not just limited in software. Bangladesh is also advancing in hardware.” -Mostofa Jabbar (Ex Telecommunication & ICT Minister)

## 4. ICT for Inclusive Public Service:

- National Helpdesk :
- Digital Center:-
- Post e -center:
  - Digital postal service – 8, 500
  - post e-centers provided rural people with Opportunity to
    - browse the internet
    - transfer remittance
    - check academic results
    - fill in application forms.
- Bangladesh National portal:

## 5. ICT are creating new Jobs

## 6. Bangladesh Enters Space Era:

- Launching first satellite – 11<sup>th</sup> May, 2018  
Bangabandhu-1 satellite:
  - Satellite build by Thales Alania space

- Launched on 11<sup>th</sup> May (USA time)
- Kennedy space center Florida
- Orbit slot 119.1°
- South Asia Middle East Asia, Indonesia & Philippine

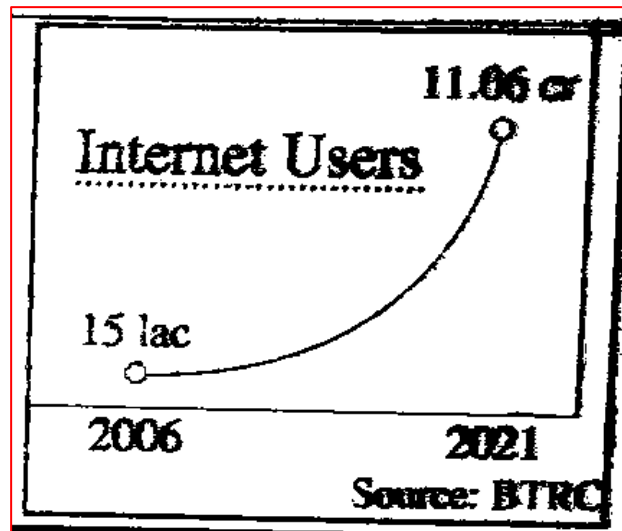
### 7. Effects of ICT on education

- ✓ Multimedia classroom 4500 primary schools and 3300 secondary, higher level
- ✓ 2 lakhs teachers are engaged with this system and 7.5 million students getting better classroom performance
- ✓ About 20,000 computers labs have been set up
- ✓ ICT Education
- ✓ ICT professionals 75,000 being trained by the Government

### 8. Digital connectivity

On 12 december 2021 5G network service

Internet Users: 2006, there were only 1.5 million, now almost 110.6 Million.



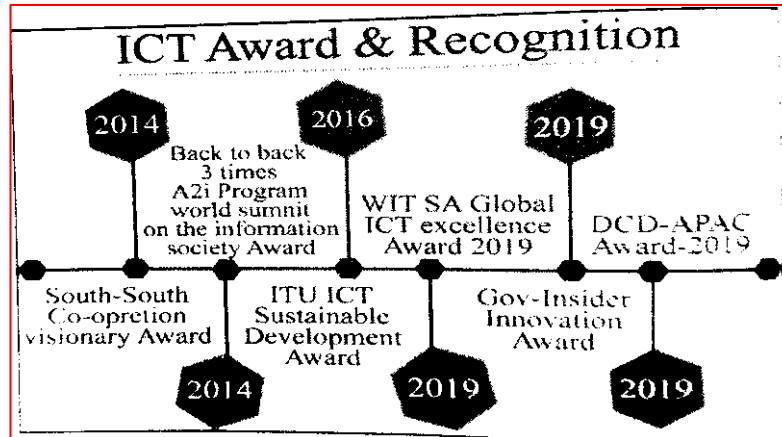
### Third Submarine Cable:

- \* Installing SEA-MEA WE 6
- \*Third submarine cable within 2025.
- \*Bangladesh's first submarine cable 2006 and the second 2017.

### 9. Use of ICT in good governance

\*24,907 tablet PCs have been distributed among government officials.

### 10. Awards for digital Bangladesh



### 11. Role of ICT in Economic Development in Bangladesh

- young population can be trained easily
- In addition to the talented workforce flexible in acquiring workforce companies flexible in scaling up
- Costs 40 percent lower than in India and Philippines.
- Cheaper than competing countries such as Sri Lanka and Philippines.

### 12. Weakness of Bangladesh ICT Sector

- \* lack of skills, don't know how and invest
- \* remains infrastructure and power shortages
- \* poor international visibility
- \* small ICT companies lack focus
- \* lack of Scalability.
- \* lack of the long term reliable service
- \* gap between the industry

### 13. Recommendations

### 14. Conclusion

Technological innovation important in poverty reduction and Bangladesh recognized that very early." Jim Yong Kim [Ex-president of World Bank]

### 3. Food Crisis: Reasons and its impact

"Innovations that are guided by farmers, adapted to local circumstances and sustainable for the economy & environment be necessary to ensure food security in the future" -*Bill Gates*

‘Overcoming poverty is not an act of charity; it is an act of justice.’ -*Nelson Mandela*  
 “Ensuring food security: leaving no one behind” - world food day 2022,FAO.

My only wish in life is that the people of Bangladesh get food, shelter & the right to a better life. Bangabandhu

1. **Introduction** Ukraine ,Bread basket of the world

2. **What is food crisis**

3. **Present situation of food crisis**

“A man never can be wise with an empty stomach.” -George Eliot

**“As many as 828 million people go to bed hunger every night – WFP**

Food production will decline by 1.4% globally- FAO

**Global report on food crisis ( GRFC)**

2018	113 Million
2019	135
2020	155
2021	193
2023	

1 million = in a situation of famine

3 billion = cannot afford healthy food

The number of hunger people doubled in three years

-UN =Secretary General Antonio Gutierrez

#worldhunger.org report>>

- 1 in 9 = go to bed with hungry every night
- 1 in 3 = severely malnourished
- 45% died due to malnutrition
- 125 million = effected by humanitarian crisis

4. **Causes of food crisis**

“Lack of food security is a silent tsunami for the world.’ – Ban Ki Moon

- International War & Conflicts  
60% of the worlds hunger
- Covid-19 pandemic

In the first year of the two year corona pandemic, the number of hunger in the world has increased by 18% , which has not been seen in last few decades – UNO

After the end of 2020, 13 core 7 lac people worldwide suffering from acute food security, which is 82% higher than covid-19 pandemic – FAO

- Drought and desertification
- Energy crisis
- Supply chain disturbance due to Russia Ukraine war

**Export      %**

Wheat – 30% by Russia & Ukraine

Fertilizer - 25% by Russia

Soya oil – 80 by Russia & Ukraine

Crude oil

- Natural disasters
- Climate change/ shocks
- Poor public policy
- Political pressure
- Food waste
- Poverty
- Sanctions on Russia
  - War in Ukraine drives global food crisis-WFP
- Political pressure
- Rising import cost
- Rising production cost
- High transportation cost
- Breakage of global supply chain
- Impact of climate change
- Rising number of natural disasters
- Demand supply gap
- Poor monitoring system
- Lack of proper rules and policy
- Rising price of fuel and gas
- Money inflation and laundering
- Unfair policy of businessman

## **5. World food crisis scenario**

## **6. Bangladesh on the perspective of food crisis:**

Bangladesh is among the 45 countries that will face a food crisis.

- FAO

## WEF----

- **40% people remain food insecure**
- 11 million suffer from acute hunger
- Though Bangladesh witnessed progress & improve availability of food due to increased production but there is food insecurity & acute hunger

Bangladesh in world Hunger Index  
2022- 84th ( among 121 countries)  
2023- 81<sup>th</sup> ( among 125 countries )

### 7. Effects of food crisis:

- Effect on health
- Increase the price of standard living  
Family expense increased up to 50% due to disturbance in fuel supply for Russia Ukraine war- World Bank
- Leads to hunger
- Leads to famine
- Increase in food price
- Rising health related cost
- Rising health related cost
- Increase poverty rate
- Create unrest situation
- Increase money inflation

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### 8. Solution to food crisis:

- Stopping Russia-Ukraine war
- Recommendation from FAO,IMF,WB & WTO
  - ❖ Support to increase production & food
  - ❖ Promote transparency
  - ❖ Ensure innovation
  - ❖ Increase investment in food system & transformation
- **Prime Ministers Sheikh Hasina's 3 proposal on FAO**
  - 1. Increase co-operation**
  - 2. Sharing & transfer knowledge & technology**
  - 3. Creating special fund to finance**
    - Resolving international conflict
    - Provides subsidies to farmers
    - Improving trade policy
    - Enhancing world aid
    - Reducing food waste

- Increasing production capacity
- Taking adaptation & mitigation policy in agricultural sector for climate change impacts
- Cooperation of FAO and UN
- Removal of sanctions on Russia
- Planting high yield variety
- Awareness building
- Proper implementation of rule, policy & strategy paper
- Planting flood resistant & drought resistant variety
- Punishment to illegal business man

**9. International initiatives to ensure food crisis :**

- Creation of fund : \$170 billion by WB
- Creation of Global response group (GCRG ) on food – April,2022
- Stimulate package of world bank ---- \$ 30 billion , 18 may 2022
- Geneva package 13-16 june,2022

No country cannot deny if FAO & WEP want to buy food from any...

**10. Initiatives taken by the govt of Bangladesh to ensure food security**

- Increasing budget in agriculture
  - 2013-14 12275 core tk
  - 2022-23 33698 core tk

- Food production increase

Fiscal year	Core MT.
2016-2017	3.86
2020-2021	4.07
2021-2022	4.65

- Seed production increase
  - 2016-2017 1.41 lakh MT
  - 2018-2019 1.48 lakh MT
- Extention of Irrigation
  - Number of land under irrigation
  - 2000-2001 48.04 lakh acre
  - 2020-2021 66
- Subsidy in agriculture
  - 2022-23 food= 6745 cr tk
  - Agriculture 9500 cr tk
- Social safety net

Fiscal year	Core taka
2020-21	95000
2021-22	109000
2022-23	1,13000 ( 16.95% of total budget)

- Plan to import food grains  
This year 26.22 lakh ton rice & white ---- food ministry

### 11. Conclusion:

**“The earth is prosaic in the realm of hunger,  
The full moon seems a piece of fried bread.”** -Sukanta

## 4. Delta Plan-2100

“The Delta Plan 2100 is Bangladesh's vision for a sustainable and climate-resilient future, ensuring long-term prosperity by managing its water resources, adapting to climate change, and fostering economic growth for generations to come.”  
– World Bank

1. **What is Delta:** geo-morphological area, forms at the mouth of the river.

2. **Formation of delta in Bangladesh**

3. **Delta plan Initiatives:**

- ⇒ Initiatives taken by General Economic Division (GED) of Bangladesh Planning Commission (BPC).
- ⇒ Official name: “Bangladesh Delta Plan 2100 Implementation project”
- ⇒ Supported by: Government of the Kingdom of the Netherlands.
- ⇒ Technical assistance: Dutch-Bangladeshi BanDuDeltAS consortium and Bangladesh Policy Research Institute.
- ⇒ MOUs was done in 16 July,2015
- ⇒ Final approbation by National Economic Council was done on 04 September, 2018.
- ⇒ Main Goal: Adaptation with Climate Change
- ⇒ Through this plan, GDP growth will rise to 10%

4. **Motives of delta plan 2100:**

- ❖ Securing water resources and food security

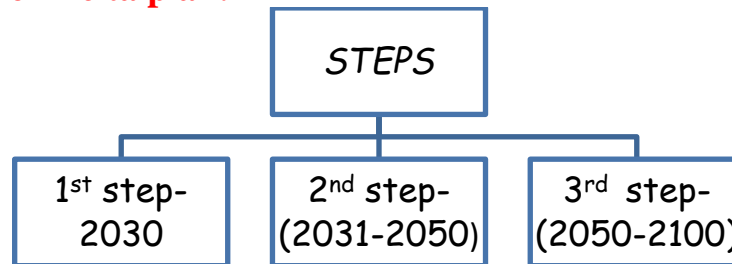
- ❖ Giving focus on climate change issues like flood, sea level rise, rising temperature.
- ❖ River Management, water logging banishment and land recovery.

5. **Reason to adopt Delta plan:** Our Father of the Nation who visited Russia in seventh decade told HPM :  
 “If you get time, visit Netherlands because it is a river land like ours.”

6. **Importance of Delta plan:**

- ❖ High Level Visions:
  - Reduction of extreme poverty by 2030
  - Achieving the status of middle-income country by 2030
  - Achieving the status of prosperous country by 2041
- ❖ Particular missions:

7. **Steps taken for Delta plan:**



8. **Cost of project implementation: ( 1<sup>st</sup> step)**

- Cost of 1<sup>st</sup> step: 2,98,827 crore tk.
- 2.5% of total expenditure will be formed to shape the plan. Here 80% from Govt fund. 20% non-govt. fund.

9. **Delta Funds:**

- Bangladesh Govt, ( 2.5% of GDP)
- World Bank, (\$1.8 billion)
- PPP,
- GCF (Green Climate Fund) (\$10.2 billion)
- Netherlands

10. **Structural components of Delta Plan:**

- First step (2020 2030)
- Second step (2031-2050)
- Third step (2050-2100)

11. **Project taken under delta plan 2100:**

- 80 Projects

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Among which 65 are infrastructural and 15 are related to institutional capacity building & development. (required around USD 38 billion)

**12. Hotspot of Delta plan:**

**six hotspots on the basis of 33 types of risks due to climate change and unplanned urbanization.**

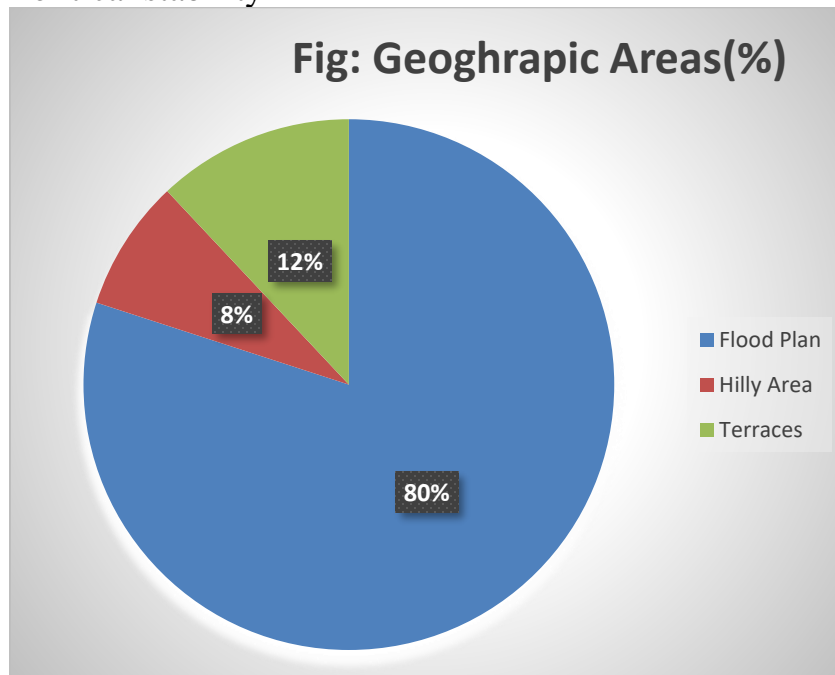
- Coastal Area
- Barand tract and drought prone area
- Haor & succetible sudden flood affected region
- Hilly areas River areas
- Urban areas
- Chittagong hill tracts

**13. Delta plan and climate change**

**14. Delta plan and blue Economy**

**15. Challenges:**

- ✓ Frequent natural disasters
- ✓ Development activities and dam establishment by India and other countries
- ✓ Water logging
- ✓ Impact of climate change
- ✓ Fair implementation of the project
- ✓ Funding
- ✓ Political stability



**16. Potentiality of Delta Plan in Bangladesh:**

- Export probability
- Employment opportunities in fishing sector
- Enhance river and waterway communications
- Increase fish production
- Enhance navigation channel
- Development of blue economy
- Increased earnings of tourism sector

### 17. Conclusion:

**বিশেষ দৃষ্টব্য:**  
আমরা **Thematic Question-1**  
প্র্যাকটিস শিটে **Delta Plan 2100**  
সম্পর্কে বিস্তারিত পড়েছিলাম। তোমরা চাইলে  
সেখানের উত্তরগুলো থেকে তথ্য নিতে পারো।

“In order to illustrate the role of BDP 2100 and its contribution to the long-term development of Bangladesh, two policy options are considered. One is called the Business As Usual (BAU) policy and another is Delta Plan-2100”

-Dr. Shamsul Alam (Ex Senior Secretary, General Economics Division, Planning Commission and coordinating lead Author of Bangladesh Delta Plan 2100)

## 5. Communal Harmony

“I have given you independence now go and preserve it.” –Bangabandhu

1. Introduction
2. What is communal harmony
3. Condition of Bangladesh in communal harmony
4. Elements of communal harmony
  - Peacefully coexistence
  - Co-operation.
  - Mutual understanding
  - Acceptance
  - Avoiding extremism
5. Constitutional Provision for maintaining harmony:
  - ✓ Article 2 (A)
  - ✓ Article 41
6. Present Scenario of communal harmony in BD:
7. Communal harmony and Islam
8. Challenges:
  - Hyper religiosity

- Using religion in politics
- Lack of patriotism
- Corruption in different sectors
- Terrorist group
- Lack of proper education
- Lack of humanity
- Absence of moral education
- Misinterpretation of religion
- Lack of awareness
- Illiteracy
- Lack of brotherhood
- Negative attitude
- Absence of woman empowerment

## 9. How to maintain communal harmony

## 10. Conclusion

### **6. Woman Empowerment**

“As a woman, I have no country  
As a woman, I want no country  
As a woman, my country is the whole world.”

-Virginia Woolf

“All the novel creation and perpetual welfare of the earth,  
Half contribution of men and half of women.” -Kazi Nazrul Islam

#### 1. Introduction

#### 2. Definition of women empowerment

#### 3. Dimension of empowerment/ concepts of empowerment:

- Health
- Economy
- Political power
- Education

#### 4. Goals of empowerment

#### 5. Global Gender Gap Index:

World economic forum published the report in 2023

- Regional ranking – 1<sup>st</sup> ( south asia )
- World ranking - 71th out of 146
- Score .71
- Bd Women empowerment in--State power 1<sup>st</sup>

#### 6. Women empowerment and gender budget

- 4191 core tk in 2021-22

## 7. **Economic empowerment of women:**

No change is possible without inclusion of women – PM

### 7.1 Economy:

- labor market 38%
- GDP is 20%,

### 7.2 Education

- **Education rate 75.2%**
- Woman = 72.9%
- Male = 77.4% (BER-22)
- Primary 51%,
- secondary 58%

### 7.3 Health sector

- Community clinic
  - about 14,000 community
- Infrastructural development
- Reduced child mortality  
Child died rate upto 1 year – 21 among 1 thousand (bbs- 2022)
- Reduced maternal mortality  
Maternity died rate- 1.63  
(BD population & demographics index 2020)

## 8. **Improved health care for women:**

## 9. **Three heroes of development:**

- Agriculture 71.5%
- RMG 54%
- Remittance 12.5%

## 10. **Creating equal rights:**

Convention of the elimination of all forms of discrimination against women.  
(CEDAW)

- Activated 3 sep , 1981
- Article 30
- Approved by 186 country

## 11. **Women Participation:**

Women are the real architect of the society - Malala yousafzai

- Political empowerment

- State power 1<sup>st</sup> (GENDER GAP Report of WEF)
- Political power – 7<sup>th</sup>
- Overall empowerment – 48<sup>th</sup>

- *Sector wise contribution at a glance*

Total **35%**

Sector	%
Agriculture	71.5
Tea industry	70
RMG	54 (25 lac) ACD ( Asian centre for development)
Remittance	12.5
Service	12.5

===

- Contribution in GDP
  - Overall 20%
- Administrative sector
  - 26% Admin cadre
- Participation in sports
  - 2022 SAFF Women's Championship Against Nepal
- Science & technology sectors
- Involvement in Political power
  - a. Prime minister
  - b. Opposition party leader
  - c. Speaker
  - d. 5 full minister including PM

### Importance of women empowerment

- Garments sector
  - 54% , 25 lac out of 42 lac ( source ACD)
- Remittance earning
  - 12.5%
- Agricultural sector
  - 71.5%
- Tea industry
  - 70%
- Service sector
  - 12.5%
- GDP

- 20% On overall GDP
- Health sector
  - 90% nurse
- Industry
  - 21 lac women
  - 20 lac male \*(bbs 2018)

**13. World contribution in empowering women:**

- Voting rights ....
- Formulation of convention
- Organization

**14. Challenge of women empowerment**

- Poverty
- Lack of strong civil society
- Lack of awareness
- Lack of proper education system
- Unemployment problem
- Negative attitude
- Misuse of loan & aids
- Lack of appropriate law,
- Lack of proper implementation of policy, plan and action
- Social prejudices

**15. Measures to prevent violence against women:**

**16. Constitutional rights for women in bd**

- Article 19 (3) – equal participation & opportunity
- Article 27- equal in the eye of law & order
- Article 28 – equal rights
- Article 28(4)- special quota for woman & children
- Article 29- equity in govt job
- Article 65(3)- Reserved member- 50

**17. Conclusion:**

“You are a woman  
You are the fire!  
You are all conquering  
You are all powerful!  
You are supreme!

You were not born to be a mere beauty queen!!- Avijeet Das

“There is no tool for development more effective than the empowerment of women.”  
– Kofi Anan

## 7. The Need for Renewable Energy /Energy Crisis

“The future is green energy, sustainability and renewable energy.”

-Arnold Schwarzenegger

“Renewable is the no longer a niche fuel.” -Fatih Birol

“It’s time to stop burning our planet and start investing in the abundant Renewable Energy all around us.”

- Antonio Gueteres (UN Secretary)

### 1. Introduction

### 2. What is renewable energy

According to UN, Renewable Energy is energy derived from natural sources that are replenished at a higher rate than they are consumed. For example Sunlight and Wind are such sources that are constantly being replenished. Renewable energy are plentiful and all around us.

### 3. Characteristics of renewable energy

- Renewable
- Non-polluting
- Non- toxic
- Clean
- Cost efficient

### 4. Types of renewable energy

- Solar energy
- Wind energy
- Biogas
- Tide

### 5. Electricity and Nuclear power energy:

Nuclear energy is a form of energy released from nuclear, the core of an atom, made up of protons and neutrons. Nuclear energy can be produced in two ways: -

- Fission = when nuclei is split into several parts
- Fusion = when nuclei fuse together.

In today’s world, the nuclear energy is harnessed around the world to produce electricity. Developed countries use nuclear fission technology to produce electricity. Currently, the first very nuclear power plant of BD is under-construction and expected to be operational **by 2024**. The Rooppur Nuclear Power Plant is situated in Pabna. It comprises of two 1200 MW power generating unit each and have a total generation capacity of  $(2 \times 1200) = 2400 \text{ MW}$ . It is being built under the supervision of

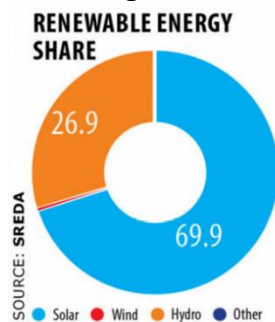
- Rosatom, Russian state nuclear cooperation
- BAEC (Bangladesh Atomic Energy Commission), the leading body of atomic energy researcher of the country

## 6. Importance of renewable energy

- Boosting economy
- Eco-friendly
- Creating green job opportunities
- Uninterrupted supply
- Assist to gain sustainable development
- Better environment for future generation
- Reducing dependency on gas, coal, petroleum
- Reduces environmental impact
- Benefits to the economy
- Supports job growth
- Improve public health
- Renewable

## 7. The growth of Renewable energy in Bangladesh:

In Bangladesh, renewable energy source like solar take up a large share of the energy mix. The total installed capacity of renewable energy is **579 MW**, this includes off-grid and on-grid installation



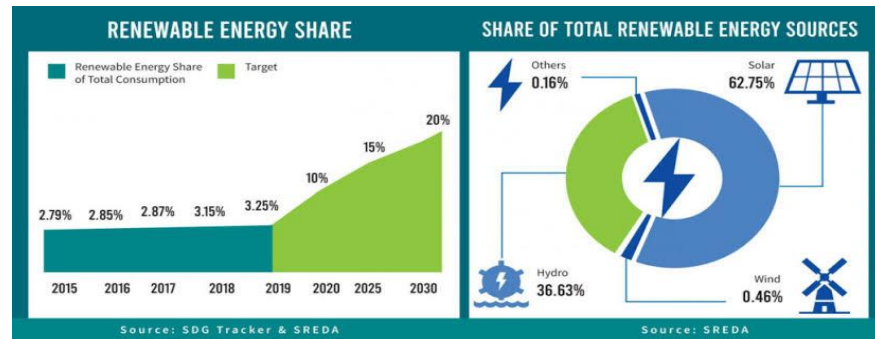
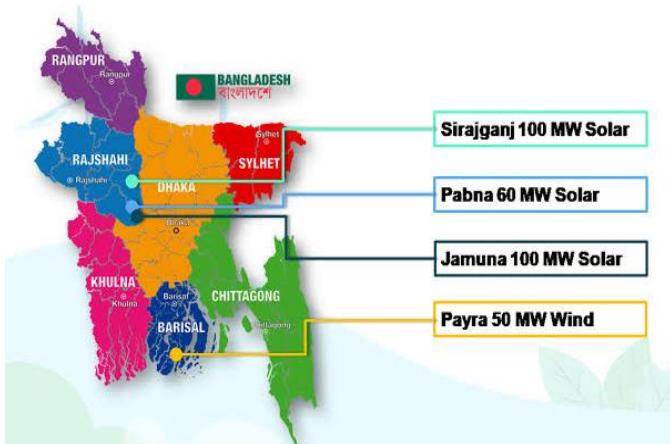
- Solar PV (photovoltaic) accounts for 69.9%
- Small scale hydropower for 36.9%
- and Biogas-biomass for 0.8%

According to the chairman of SREDA, more than **1000 MW** of utility scale solar park and **500 MW** of commercial / industrial rooftop solar PV projects under the net metering scheme are on the horizon.

Bangladesh does not have geothermal potential and its hydro-potential, based on elevation is also small. Tidal is a new form of energy that is yet to achieve commercialization.

With regards to Bio-mass the main problem lies in the high demand for agricultural and animal wastes in rural areas for other household usage.

### 8. Current situation of renewable energy:



### 9. Challenges for using RE:

- Poverty
- Weak infrastructure
- Lack of skilled manpower
- Lack of technology
- Lack of technical education
- Lack of capital
- Dependency on foreign technology and assistance
- Shortage of capital
- Lack of incentives for private investors
- Missing coordination among ministries
- Procedure difficulties
- Slow technological adoption

### 10. Incentives by government for private investment in power sector:

- The government announced to install rooftop solar system on all educational institutions
- In 2021, the govt. accepted electric vehicle registration and operational guidelines

- The construction of solar charging stations for EVs with an average capacity of 20 KW is being planned
- Solar Home System Programs by IDCOL provides funding and technical knowledge to private companies and consumers.
- A 50 MW solar-fisheries project (Floatovoltaics) has been approved and the project implementation is underway.
- Agrovoltaics has also been introduced where crops can grow beneath solar systems.

### 11. Renewable energy & environment

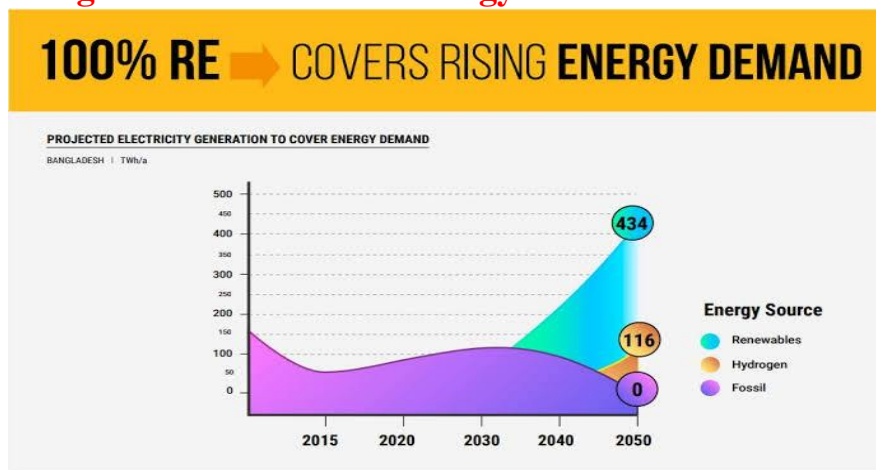
Renewable energy is the key solution to combat climate change. Unlike coal, oil or gas, renewable sources such as Nuclear Power Plants particularly do not produce CO<sub>2</sub> during their operation. A large chunk of greenhouse gases that blanket the Earth and trap the Sun’s heat are generated through energy production by burning fossil fuels.

- Fossil fuels such as Coal, Oil and Gas are the largest contributor to greenhouse effect and climate change.
- Renewable Energy sources which are available in abundance all around us provided by the Sun, wind, water, bio-waste and heat from the Earth and are replenished by nature and emit little to no greenhouse gases or pollutant of air.

To avoid the worst impacts of climate change, we need to control and reduce the emission of CO<sub>2</sub> and greenhouse gases almost half by 2030 and net zero by 2050.

### 12. Renewable energy in SDGs goal

### 13. The advantages of the renewable energy transition:



### 14. Recommendations

### 15. Conclusion

## 8. Fourth Industrial Revolution

“We must develop a comprehensive & globally shared view of how technology is affecting our lives & reshaping our economic, social, cultural and human conditions.

[Klaus Schwab]

“The fourth industrial revolution will affect very essence of our human existence.”

-Klaus Schwab

The fourth industrial revolution is not about new apps or new technologies; it is about a new era, new ways of thinking and new ways of doing business. -Nicky Verd

### 1. Introduction

### 2. Four Industrial Revolutions

- 1784 -----the invention of the steam engine
- 1870 -----the invention of electricity
- 1969 ----- the invention of internet
- 2015----- monitoring & controlling internet based work process

### 3. History of the fourth Industrial revolution :

In 2015 Klaus Schwab first used the term ‘Fourth Industrial revolution’ in his ‘foreign Affairs’ article and “The Fourth Industrial Revolution’ book.

### 4. Related technology of the fourth Industrial Revolution:

- Artificial Intelligence

Characteristics of AI:

- ❖ Deep learning
- ❖ Facial recognition
- ❖ Automate tasks
- ❖ Data ingestion
- ❖ Cloud computing
- ❖ Quantum computing
- ❖ Chatbots

- Machine Learning Automation

- Block Chain:

- 3D Printing
- Cloud Computing

#### Types:

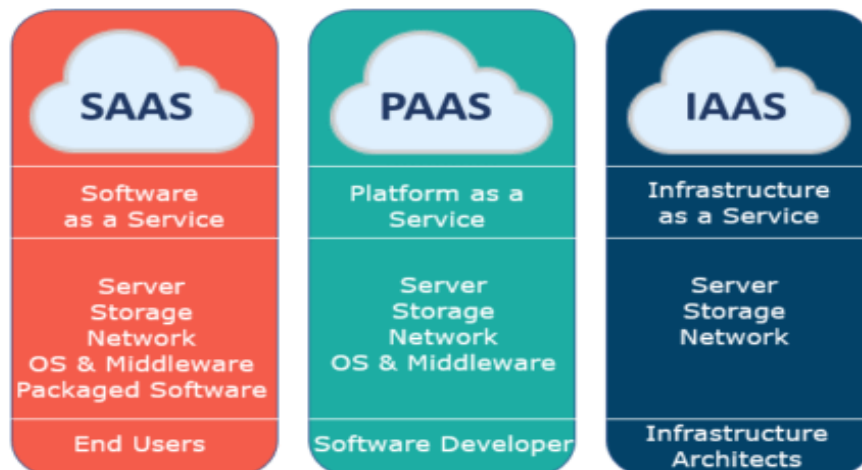
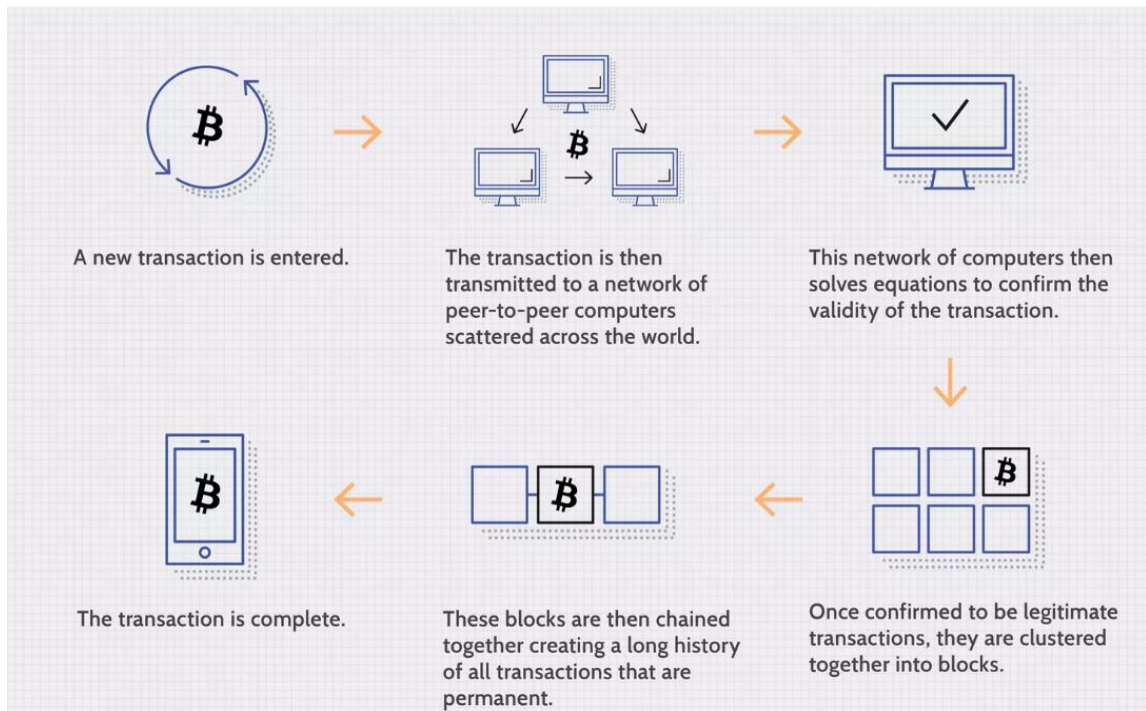
- Robotic & automation
- Genetic Engineering
- Internet of Things (IoT)

**BCS Odit**  
**Online Class**  
**(01904-433500)**

# Internet of Things Uses By Industry



Big Nerd Ranch Can Build Your IoT Application: [www.bignerdranch.com/contact](http://www.bignerdranch.com/contact)



## **5. Positive impacts of fourth Industrial Revolution**

**The 4IR will create more jobs than it destroys.**

**-Joko Widodo(president of Indonesia)**

**For people with disability the 4IR will give them super powers.**

**-Salim Kashafi(gold medalist athelete,Norway)**

- ❖ Education section:
- ❖ Skill development
- ❖ Boost of social media: Facebook, Twitter, YouTube , Internet users have increased.
- ❖ Easy and fast communication
- ❖ Globalization
- ❖ Medical Science sector
- ❖ Agricultural
- ❖ Industry sector

## **6. Negative impacts of 4<sup>th</sup> Industrial Revolution:**

- ❖ Reduction of mental & physical strength of people
- ❖ Hacking of personal information
- ❖ Cyber crime
- ❖ Cyber bullying

## **7. Prospect of 4IR**

## **8. 4<sup>th</sup> Industrial Revolution in BD**

## **9. Challenge of BD**

## **10. Recommendations**

## **11. Conclusion:**

“The fourth industrial revolution is still in its nascent state and the time to join in is now.” - Gary Coleman

Bangladesh missed three industrial revolutions before it could even notice them,but the country will lead the fourth.

**-Mustafa Jabbar (Ministry of Post & Telecommunication)**

## 9. Mega Projects and the Way of Development

(Development A "The Delta Plan 2100 is Bangladesh's vision for a sustainable and climate-resilient future, ensuring long-term prosperity by managing its water resources, adapting to climate change, and fostering economic growth for generations to come." activities)

“To build a Golden Bengal, we need golden people.”

-Bangabandhu

1. **Introduction**
2. **What is mega projects** 2009 BY BD AWAMI LEAGUE
3. **10 mega projects of Bangladesh**

### A. Padma Bridge

- Total length: 6.15 km
- Construction start: 26 November 2014
- Cost: \$3.6 billion
- Inaugurated Date: 25 June, 2022

### B. Padma Bridge Rail Link

- Total length: 169 km
- Construction start: July 2018
- Cost: Tk 39,246 crore
- End Date: 2024 estimated

### C. Dhaka Elevated Expressway

- Start- January 1, 2020
- End date- June 2023
- Cost: 8,940 Crore
- Length- 19.73 km

### D. Chittagong Cox's Bazar Rail Link

- **Cost-** estimated Tk 18,054 crore.
- length 128
- 62% completed<sup>L</sup>
- End -early 2023

### E. Rooppur Nuclear Power Plant

- Start- November 2017 Rooppur 1
- Open Date: Rooppur 1- 2024. Rooppur 2- 2025
- Cost- 1,13,000 Crore BDT



Target 2031-9.7%  
 Padma bridge Nationally 1.9%  
 Locally 2%

- Industrialization
- Connectivity Padma Bridge 44000 sq km  
 Around 29% area  
 Around 3 core people

ROUTE	PREVIOUS TIME (Appox)	PRESENT TIME(APPOX)
Dhaka to Khulna	7-8h	4h
Dhaka to Pirojpur	12h	6
Dhaka to faridpur	3.5h	1.5h
Dhaka to mongla	6	3.5

Amar gram, amar shohor project implementation

Metrorail will be launched on the 14km-long Uttara Agargaon route by the end of this year - pm

- Development in agriculture
- New income generation

Consequent (BER)

FICAL YEAR	GROSS NATIONAL INCOME
2021-22	2824
2020-21	2591

Target \$12500 by vision 2041

- Expansion of tourism sector
- Boosting export system
- 100pc population now under electricity coverage 15 May 2022
- Infrastructural development 2022-23 Budget 2,46,066 core  
 SDG goal 9= industry, innovation & infrastructure
- Ensuring electricity facility  
 SDG goal 7
  - Increase Production rate
  - Increase FDI

Roppur -2400Mw	✓ Payra-1320 Mw
Matarbari-1200Mw	✓ Rampal-1320 Mw

- Ensures safe & easy communication
- Ensuring LIQUID NATURAL GAS (LNG) demand  
 - 3000 million cubic ft LNG by 2025  
 ( LNG Gas Terminal , Moheshkhali, Coxsbazar)

- Reduce inequalities within & among countries  
SDG 10

## 5. Challenges to implement mega projects

- Lack of capital

2021-22 fiscal year ADP allotment by BER 2022

1.18,426 core = Ruppur project (1<sup>st</sup> highest)  
2.4800 core = Metro rail project (2<sup>nd</sup> highest)  
3,. 3500= Padma bridge

- Regular installment of foreign loan  
Ruppur loan 91 thousand 40 core taka at 1.75% interest
- Reserve crisis:

Monetary reserve being used for public welfare: PM

- Poverty
- Import of raw materials
- High maintenance cost
- Lack of technical knowledge
- High dependency on foreign technologies & assistance
- Dependency on foreign loan
- Continuous climatic hazards

## 6. Recommendations

No possibility of adverse impact on implementing mega projects: says PM

## 7. Conclusion:

## 10. Sustainable Development Goals and Bangladesh

“I am delighted that Bangladesh has fulfilled the criteria for graduation from the world LDCs. Strong vision, national leadership, sound policies will be crucial as BD strives to implement the 2030 agenda for Sustainable Development.” -Antonio Guterres

### 1. Introduction

**Official name** transforming our world : the 2030 agenda for sustainable development

### 2. What is sustainable development? 2015-2030

- Goal 17
- Target 169

### 3. History of adopting SDGs

### 4. Purpose of each goal

#### 17 SDG goals at a glance

SUSTAINABLE DEVELOPMENT GOAL NO	Key OBJECTIVES
Goal 1	No poverty
Goal 2	Zero hunger
Goal 3	Good health
Goal 4	Quality education
Goal 5	Gender Equity
Goal 6	Clean water & Sanitation
Goal 7	Affordable energy
Goal 8	Decent work & economic growth
Goal 9	Industry, innovation , infrastructure
Goal 10	Reduced inequalities
Goal 11	Sustainable cities & communities
Goal 12	Responsible consumption & production
Goal 13	Climate change
Goal 14	Life below water
Goal 15	Life on land
Goal 16	Peace justice & strong institutions
Goal 17	Partnership for the goal

## 5. Condition of Bangladesh in the way of fulfilling the goals

<p><b>1. No poverty</b></p> <ul style="list-style-type: none"> <li>• Extreme poverty rate 2015 -17.60% <b>2022- 10.5%</b></li> <li>• Poverty rate 2015- 31.50% <b>2022- 20.5%</b></li> <li>• Target 9.7% by 2030</li> <li>• Ensure social security             <ul style="list-style-type: none"> <li>• 2022-23 budget allotment 1,13000 core</li> <li>• 16.75% of budget</li> <li>• 2.55 of GDP</li> </ul> </li> </ul> <p>8<sup>th</sup> fifth year plan 2020-2025, Delta plan- 2100</p>
<p><b>2. Zero hunger</b> <b>Global hunger index 2021</b></p> <ul style="list-style-type: none"> <li>• 76<sup>th</sup> out of 116 countries</li> <li>• 19.1 score out of 100 in index</li> <li>• 40% people faces malnutrition &amp; hungry</li> </ul>
<p><b>3. Good health</b></p> <ul style="list-style-type: none"> <li>• Child died rate upto 1 year – 21 among 1 thousand (bbs- 2022)</li> <li>• Maternity died rate- 1.63 ( BD population &amp; demographics index 2020)</li> <li>• EPI Vaccine for 10 diseases – 99.3% children ( bd EPI CES )</li> </ul>
<p><b>4. Quality education</b></p> <ul style="list-style-type: none"> <li>• <b>Education rate 75.2%</b></li> <li>• Woman = 72.9%</li> <li>• Male = 77.4% ( BER-22)             <ul style="list-style-type: none"> <li>• Women participation in education</li> </ul> </li> <li>• Primary 51%</li> <li>• Higher secondary – 52%</li> </ul>
<p><b>5. Gender Equity</b></p> <ul style="list-style-type: none"> <li>• <b>Women empowerment in--</b></li> <li>• <b>State power 1<sup>st</sup> ( GENDER GAP Report of WEF)</b></li> <li>• <b>Political power – 7<sup>th</sup></b></li> <li>• <b>Overall empowerment – 48<sup>th</sup></b></li> <li>• <b>Women in national parliament</b> <ul style="list-style-type: none"> <li>• <b>Elected member – 22</b></li> <li>• <b>Reserved member- 50 * article 65(3)</b></li> </ul> </li> </ul>

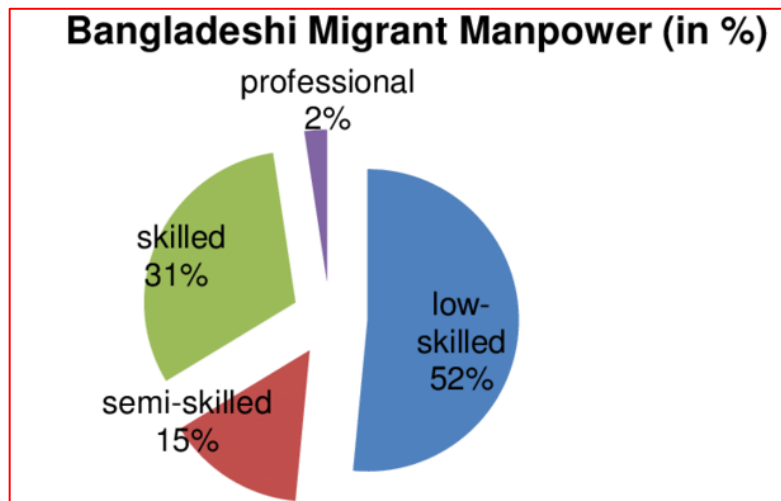
		<ul style="list-style-type: none"> <li>• <b>Women in government</b> <ul style="list-style-type: none"> <li>• <b>Prime minister</b></li> <li>• <b>Opposition party leader</b></li> <li>• <b>Speaker</b></li> <li>• <b>5 full minister along with PM</b></li> </ul> </li> <li>• <b>Women in constitution</b> <ul style="list-style-type: none"> <li>• <b>Article 19 (3) – equal participation &amp; opportunity</b></li> <li>• <b>Article 27- equal in the eye of law &amp; order</b></li> <li>• <b>Article 28 – equal rights</b></li> <li>• <b>Article 28(4)- quota for woman &amp; children</b></li> <li>• <b>Article 29- equity in govt. job</b></li> <li>• <b>Article 65(3)- Reserved member- 50</b></li> </ul> </li> <li>• <b>Women in work place – 38%</b></li> </ul>								
<b>6.</b>	<b>Clean water &amp; Sanitation</b> ( BER-22)	<ul style="list-style-type: none"> <li>• <b>Safety water</b> <ul style="list-style-type: none"> <li>• <b>98.3% in 2020</b></li> <li>• <b>Target 100% by 2021</b></li> </ul> </li> <li>• <b>Sanitation</b> <ul style="list-style-type: none"> <li>• <b>81.5% in 2020</b></li> </ul> </li> </ul>								
<b>7.</b>	<b>Affordable energy</b>	<ul style="list-style-type: none"> <li>• <b>100% electrification on 20 march 2022</b></li> <li>• <b>Capacity - 25514 MW ( target 2030 – 40k , 2040- 60K)</b></li> <li>• <b>Number of power plan – 152</b></li> <li>• <b>ADP allotment 25084 crore ( 2021-22)</b></li> <li>• <b>Mega project</b></li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Roppur -2400Mw</td> <td style="width: 70%;">• Payra-1320 Mw</td> </tr> <tr> <td>Matarbari-1200Mw</td> <td>• Rampal-1320 Mw</td> </tr> </table>	Roppur -2400Mw	• Payra-1320 Mw	Matarbari-1200Mw	• Rampal-1320 Mw				
Roppur -2400Mw	• Payra-1320 Mw									
Matarbari-1200Mw	• Rampal-1320 Mw									
<b>8.</b>	<b>Decent work &amp; economic growth</b>	<ul style="list-style-type: none"> <li>• <b>Average GDP growth 2015-19 = 7%</b></li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Fiscal year</th> <th style="width: 70%;">Growth %</th> </tr> </thead> <tbody> <tr> <td><b>2021-22</b></td> <td><b>7.25</b></td> </tr> <tr> <td><b>2020-21</b></td> <td><b>6.94</b></td> </tr> <tr> <td><b>2019-20</b></td> <td><b>3.45 *(covid pandemic)</b></td> </tr> </tbody> </table>	Fiscal year	Growth %	<b>2021-22</b>	<b>7.25</b>	<b>2020-21</b>	<b>6.94</b>	<b>2019-20</b>	<b>3.45 *(covid pandemic)</b>
Fiscal year	Growth %									
<b>2021-22</b>	<b>7.25</b>									
<b>2020-21</b>	<b>6.94</b>									
<b>2019-20</b>	<b>3.45 *(covid pandemic)</b>									

<b>2018-19</b>	<b>7.88</b>	
<b>2017-18</b>	<b>7.32</b>	
<ul style="list-style-type: none"> <li>• <b>Target 2022-23 =7.5%</b></li> </ul>		<b>(BBS+Budget speech)</b>
<b>9. Industry, innovation , infrastructure</b>		
NB: Include information from mega project		
<b>10. Reduced inequalities</b>		
implementing ( SDG 1,2,5 )		
<ul style="list-style-type: none"> <li>• Rate of Incentive on Remittance 2.5% from 1 janu,22</li> <li>• 2020-21 \$ 24.77 billion</li> <li>• 2021-22 \$ 21.03% ( bd bank )</li> </ul>		
<b>11. Sustainable cities &amp; communities</b>		
<ul style="list-style-type: none"> <li>• Amar gram amr shohor projct</li> <li>• Asrayon project - 66189 family get house</li> <li>• Amar bari, amar khamar – beneficiaries 57 lac</li> </ul>		
<b>12. Responsible consumption &amp; production</b>		
By implementing SDG 4,5,8,9		
<b>13. Climate change</b>		
<ul style="list-style-type: none"> <li>• <b>Bangladesh climate change strategy &amp; action plan (BCCSAP)</b> <ul style="list-style-type: none"> <li>• 1<sup>st</sup> combined stragetical action plan</li> <li>• 6 thematic area</li> <li>• 44 project</li> </ul> </li> <li>• <b>Bangladesh climate change trust fund ( BCCTF)</b> <ul style="list-style-type: none"> <li>• 32000 Core allotment in 2009-2022</li> </ul> </li> <li>• <b>Climate change trust law 2010</b></li> <li>• <b>Mujib climate prosperity plan</b> <ul style="list-style-type: none"> <li>• \$ 44.30 core from BCCTF</li> <li>• 789 project</li> </ul> </li> <li>• <b>National adaptation plan : guidance by UNFCCC</b></li> <li>• <b>Intended nationally determined contributions ( INDC)</b> <ul style="list-style-type: none"> <li>• <b>Target 10% carbon reduction by international aid &amp; 5% by own ability</b></li> </ul> </li> <li>• <b>Delta plan 2100</b></li> </ul>		
<b>14. Live below water</b>		
SDGs Bangladesh progress report 2018 preserved area in sea – 2.05%		

<ul style="list-style-type: none"><li>• Target -2.50% by 2030</li></ul>
<b>15. Life on land</b> <b>Preserved forest 17.5%</b>
<b>16. Peace justice &amp; strong institutions</b>
<b>17. Partnership for the goal</b> <ul style="list-style-type: none"><li>• Bd needs \$5-11 trillion to fulfill SDG target</li><li>• Gets less than 1%</li></ul>

### 6. Challenges of Bangladesh to implement the SDGs

- Poverty
- Weak infrastructure
- Limited natural resources
- Natural calamities
- Over population
- Wide range of corruption
- Backwardness in export system
- Misuse of loans and aids
- Barrier to women Empowerment
- Unskilled manpower
- Unemployment problem
- Lack of technical knowledge
- Rohingya problem
- Poor marketing system



## 7. Recommendations

- Women empowerment
- Enhancing educational program
- Providing training
- Creating income opportunities
- Ensuring health facility
- Adaptation & mitigation to climate change
- Adopting new technology
- Ensuring sound environmental activity
- Utilizing Blue economy
- Implementing PRPS
- Rule of Law
- Equal distribution of natural resources

## 8. Conclusion

# 11. E-Governance and Bangladesh

“E-governance is easy governance, effective governance and also economic governance that paves the way for good governance.” - By Narendra Modi

### 1) Introduction

2) **What is e-governance?** Electronic Governance

### 3) Types of E-Governance:

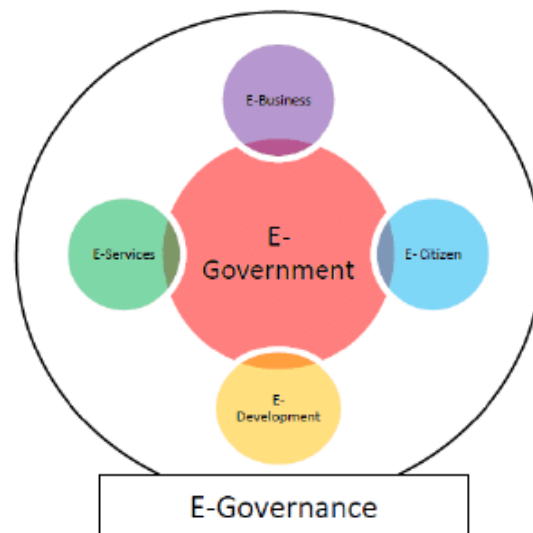
- G2G: Government to Government: ex. City corporation yearly budget depends on central Govt.
- G2C: Government to Citizen : ex. Payment of utility bills
- G2B : Government to Business: ex. Corporate tax paying system
- G2E : Government to Employee: ex. Applying for leave, reviewing salary, payment record.

### 4) Characteristic of E-Governance:

- Cost effective
- Better security
- Better service
- Easy maintenance
- Instant Access
- Simple

### 5) Benefits of E- Governance:

- Reduced corruption



- b. High transparency
- c. Increased convenience
- d. Growth of GDP
- e. Reduced cost
- f. Expansion of government reach
- g. Continuous development activities
- h. Saving working hour

**6. Condition of E-Governance of Bangladesh :**

Digital Bangladesh, 120 million mobile subscribers + 43 million internet subscribers:

- a. e-Mutation
- b. Union Digital Centre
- c. e-TDS (Electronic Tax Deduction at Source)
- d. e-Passport
- e. e-Procurement
- f. e-Tender
- g. Social safety net service under G2P

\*\*\*Bangladesh moves up on UN E-Government Development Index (EGDI)

Year	Rank	Score
2012	150	0.2991
2016	124	0.3800
2020	119	0.5189
2023		

Source: EGDI status of BD.

**7) Obstacles of introducing e-governance in BD:**

- a. Lack of proper education
- b. Poverty
- c. Lack of political commitment
- d. Lack of strong monitoring authority
- e. Shortage of skilled manpower
- f. Poor infrastructure
- g. Low internet coverage
- h. Low penetration of ICT
- i. Low financing
- j. Recommendations
- k. Creating ICT skilled human resources
- l. Providing training

- m. Giving technological knowledge
- n. Raising awareness
- o. Ensuring cyber security
- p. Enhancing ICT facilities
- p) Development of infrastructure
- q) Expansion of internet coverage
- r) Strong evil society

#### 8) Recommendations:

#### 9) Conclusion:

“E-governance ensures fastest services and participation which ultimately results in good governance.”-Ban Ki-moon (Ex-Un Secretary General)

## 12. Liberation War

“If blood is the price of independence, Bangladesh has paid the highest price in the history.”- London Times (1971)

### 1. Introduction

### 2. Language movement of 1952

### 3. Combating united front election of 1954

### 4. Constitutional movement 1956

### 5. Education movement 1962

### 6. Six point movement 1966

“Six point demand was the survival of the Bengals.” -*Sheikh Mujibur Rahman*

### 7. Mass uprising in East Pakistan

### 8. General election:

“Remember, having mastered the lesson of Sacrifice, we shall give more blood. God willing, we shall free the people of this land. The struggle this time is a struggle for emancipation, The struggle this time is a struggle for independence. *Joi Bangla!*”

-*7 March Speech*

This may be my last message, from today Bangladesh is independent. I call upon the people of Bangladesh wherever you might be and with whatever you have, to resist the army of occupation to the last.”

-*Bangabandhu Sheikh Mujibur Rahman (26 March, 1971)*

### 9. Great Liberation War

10. Conclusion: ‘The great revolution in the history of man, past, present and future is the revolution of those determined to be free.’

-*John F. Kennedy*



## **13. Green Economy/ Green Revolution and its impact on BD**

“The future is green energy, sustainability and renewable energy”

*Arnold Schwarzenegger*

### **1. Introduction**

### **2. What is green revolution**

### **3. History of green Revolution**

- ✓ Mexico 1950s,1960s
- ✓ USA 1968

### **4. Importance of Green Revolution:**

- ✓ Ensure food security
- ✓ Save the world from famine & starvation
- ✓ Enhance nutrient availability
- ✓ Increase crop yield

### **5. Elements of Green Revolution**

- Improved variety
- Pesticides
- Chemical fertilizer
- Insecticides
- Modernized method of farming
- Irrigation
- Modern technology

### **6. Green Revolution and Bangladesh**

### **7. Impacts of Green Revolution on Bangladesh**

- Proper use of land
- Increasing production
- Market oriented agriculture
- Ensuring food security
- Ensuring self sufficiency in food production
- Agricultural innovation
- Rural Prosperity

### **8. Conclusion :**

"Renewable energy is a winner when it comes to boosting the economy and creating jobs" -Tom Steyer

## 14. Blue Economy

“The blue economy model aims for improvement of human wellbeing and social equity, while significantly reducing environment risks and ecological scarcities.”

- Patricia Scotland ( secretary general of commonwealth of Nation)

### 1. Introduction

### 2. What is Blue Economy:

#### According to World Bank

The blue economy is the sustainable use of ocean resources for economic growth, improved livelihoods, and jobs while preserving the health of ocean ecosystem.

**3. History of Blue Economy:** Gunter Pauli, presenter of blue economy concept , published a book named “ The Blue Economy : 10 years-100 innovations-100 million jobs” in 2010. Later this concept was explained in a summit, Rio+20, held in 2012 in Rio de Janeiro ( Brazil)

### 4. Laws of sea:

According to ITLOS

Political Self : 12 NM

Exclusive Economic Zone: 200NM

Continental self: 254 NM

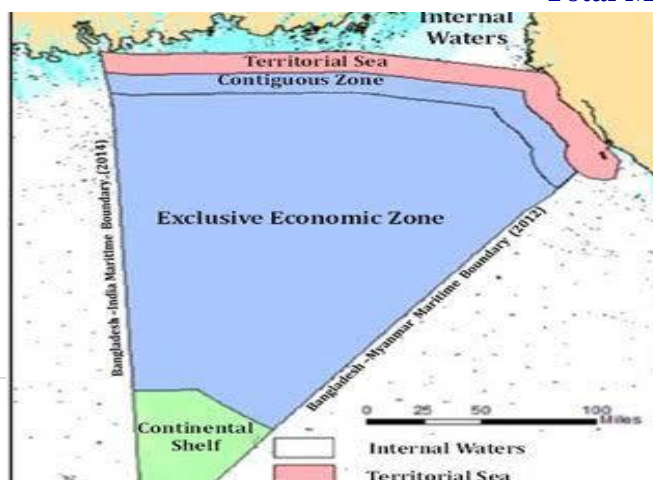
### 5. International importance of Blue economy

“The Coastal state exercise sovereign rights over the continental shelf for exploiting the minerals and other non-living resources of the seabed and subsoil, together with living organisms.” - Article 77 of UNCLOS

### 6. Maritime settlement with India and Myanmar

	Myanmar	India
Cases	2009	2009
Court	ITLOS	PCA
Judgement	14 <sup>th</sup> March, 2012	7 <sup>th</sup> July, 2014
Bangladesh gained	1,11,631 Km <sup>2</sup>	19,467 km <sup>2</sup>

**Total Maritime area: 1,18,813 Km<sup>2</sup>**



## 7. Blue economy and Bangladesh

“Focus needs to be placed to build a wide sustainable blue economy belt in his subcontinent with the help of untapped resources of the sea” – *Chief Adviser Dr. Muhammad Yunus.*

## 8. Prospects in different sectors:



- ✓ **Exploration of oil and gas:** 40 trillion gas available, 5 out of 23 blocks of gas exploration located in the Bay of Bengal.
- ✓ **Fisheries Sector:** 800 million tons of fishes are caught in the Bay of Bengal. Bangladeshi fisherman can fish only 0.7 million metric tons and rest are taken by Thailand, India and others.
- ✓ **Port Tax or Levy:** 26 billion dollar export-import is done through Chittagong and Mongla port every year.

### Income and Expenditure of CPA (In crore TK)

Fiscal Year	Rev. Income	Rev. Expenditure	Rev. Surplus (Before Tax)
2008-2009	1133.72	457.51	676.21
2016-2017	2386.22	1303.75	1082.47

2022-2023			
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- ✓ **Salt collection:** will be extend upto 1.5 million tons.
- ✓ **Heavy Metals:** 13 types of heavy metals available in our sea
- ✓ **Energy Production:** wind power generation center at Sona Gazi, Feni.

9. **Challenges ahead of Bangladesh**

10. **Government steps to establish blue economy**

- **Payra Deep Sea Port**
- **Bangladesh Demographic Research Institute Act-2015**
- **National Ocean Research Institute in Ramu, Cox's Bazar**
- **Oceanographic Data centre established**
- **Merine Drive Road**
- **Department started in DU & CU for higher education on oceanographic**

11. **Conclusion:**

“Bangladesh has 120 trillion dollar ocean resources which will make Bangladesh Asian super power.” -Charles Brown Blumberg(Ocean related researcher)

## 15. Refugee Crisis: A Global Threat

“Refugees are not terrorists. They are often the first victims of terrorism.”

-Antonio Guterres

1. **Introduction**

2. **Who really the Refugees are**

- **International Organization for Migration's perspective**
- **UN 1951 Refugee Convention**
- **UNHCR (United Nations High Commissioner for Refugees)**
- **UNRWA (United Nations Relief & Works Agency)**
- **Cartagena Declaration on Refugees**

3. **What is Refugee Crisis**

- **History**
- **During the rise of Nazism (1933 to 1944)**
- **Post World War-II**

4. **How many refugees and where**

5. **Rohingya refugees in Bangladesh**

6. **Recent crisis of the Rohingyas:**
7. **Major causes behind refugee crisis**
8. **Challenges of the world community**
9. **How to tackle refugee crisis**

- **Refugee resettlement**
- **Refugee relocation**
- **Refugee integration**
- **Refugee workforce integration**

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সাথে শেয়ার করা সম্পূর্ণ অবৈধ।

## 10. **Conclusion**

“The world will not be destroyed by those who do evil, but by those who watch them without doing anything.”

— Albert Einstein

## **16. RMG Sector and Economic Development of Bangladesh**

### 1. **Introduction**

### 2. **RMG**

**Journey started since 1980s**

**Pioneer:** Noorol Quader Khan

**First factory:** Desh Garments

**Contemporary some other Factories:** Bond garments, Riaz garments, Paris garments, Azim group, Sumon group etc.

### 3. **BGMEA (Bangladesh Garments Manufacturers and Exports Association)**

**Established:** 1977

**Board of director:** 27 members

**Office Location:** Karwan Bazar

**According to BGMEA:** Apparel Manufacturers- 3090

Fabric Suppliers- 112

Accessories Suppliers-364

There are more than 4200 garments factories employing 50 lakh workers in it.

### 4. **RMG industry: lifeline to BD economy**

2<sup>nd</sup> largest garments exporter next to china.

Contributes 81% of total export earning.

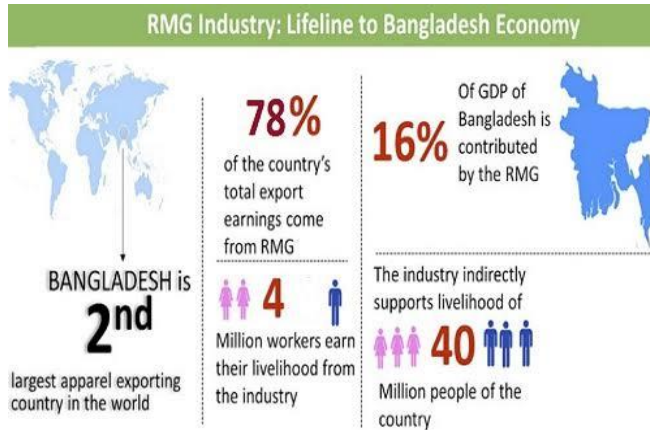
4 million people working in around 6000 garments factories, approximately 80% of them are female.

### 5. **Contribution of RMG sector in Bangladesh Economy**

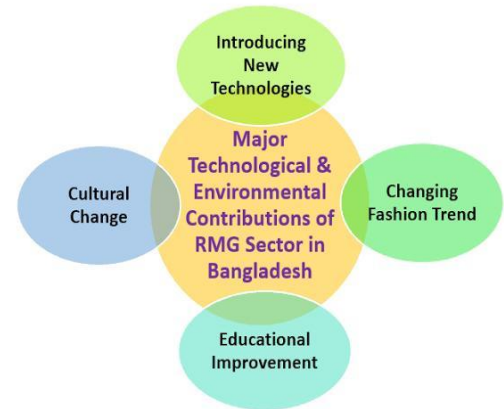
- **Economic contribution:** In 2020-2021 FY , export value 43.34 billion USD which is 81% of total export value 52.08 billion USD.

Bangladesh's market share is 5% of total global RMG market of 450 billion USD.

- Technological and environmental contribution
- Social contribution



Major Technological & Environmental Contributions of RMG Sector in Bangladesh



## 6. Garments sector and economic development

## 7. The challenges for the RMG sector

- Political uncertainties
- Smooth supply
- Supportive policy
- Labor entrepreneurs
- Lack of infrastructure facility
- Quantity of the product
- Terrorist attack in USA
- War against terrorism
- Russia Ukraine war
- Suspension of GSP by the USA government

## 8. Recent government interventions

## 9. Recommendations for development

- Explore for new market
- Take new approach to law and order
  - Financial support
  - Child labor
  - Make the port free
  - Infrastructure

## 10. Conclusion:



## **17. Cultural Heritage of Bangladesh**

“We should feel empowered by where we came from and who we are, not hide it. It is important to acknowledge that everything we do affects our ancestors as much as they have affected us.” -Lorin Morgan-Richards

- **Introduction**
- **Arena of culture**
- **Music, Dance and Dream**
- **Media and Cinema**
- **Festives and Celebrations**
- **Eid-ul-fitr**
- **Eid-ul-Adha**
- **Pohela Boishakh**
- **Language Day**
- **Durga Puja**
- **Architecture and Heritage**
- **World Heritage Sites**
- **Memory of the world Register**
- **Geographical Indicative products**
- **Sports**
- **Religion**
- **Cuisine**
- **Cloths**
- **Positive Impact of Globalization on our Culture**
- **Negative Impact of Globalization on our Culture**
- **Conclusion**

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## **18. Cyber Crime : Causes & Remedies**

**“For every lock, there is someone out there trying to pick it or break in.”**

**-David Bernstein, *president at the Bernstein agency***

### **Introduction**

**What is Cyber Crime:** cyber crime generally refers to the use of a computer as an instrument to further illegal ends, such as committing fraud, trafficking in child pornography and intellectual property, stealing identities, or violating privacy etc.

### **The History & evolution of Cyber Crime**

#### **Types of Cyber Crime:**

**Hacking :** Hacking is a type of cybercrime act where an intruder gets access to a few or complete functions within a system without your permission.

**Phishing :** A phishing attack involves attackers sending several spam mails having malicious attachments or links. Once a receiver clicks on a link, he/she may be redirected to a malicious site asking the receiver to respond with confidential details, such as login credentials, billing information, etc. This type of attack may also take place through text messages, websites, or even social media platforms.

**Virus attack:** A computer virus is one of the most destructive types of attacks where cybercriminals gain unauthorized access to the system and steal personal information and other important data.

**Ransomware:** Ransomware is one of the most popular types of malware-based attacks. It enters through a computer network on a local machine and encrypts files using public-key encryption. That means you cannot access encrypted files and the information stored in them. The cybercriminal will then ask for ransom (money) to unlock the files and give your data back.

**Denial of service attack:** The DDoS (Distributed Denial of Service) attack is a blatant attempt by cybercriminals to take down a system or network temporarily or completely.

**Identity Theft:** Identity theft is a specific type of cybercrime in which attackers gain access to the victim's personal information, including passwords, financial accounts, credit cards, and other confidential information.

**Spamming:** This cybercrime involves criminals using electronic messaging systems to send messages to users. These messages usually consist of malware, fake links of websites, and other malicious software. Email spamming is one of the common spamming methods in which bulk messages are sent to large numbers of users.



### Common Examples of Cyber Crime:

### Effects of Cyber Crime on Businesses:

### Effects of Cyber Crime on National Defense:

### Impacts of Cyber Crime:

**Cyber Crime in BD:** billion dollar money heist in Bangladesh Bank 4 February, 2016, Communal riots 2022, ATM card, Debit card forgery 2016 etc.

### Legislative action taken by BD Govt.:

### How to protect oneself against Cyber Crime:

### Challenges ahead of upcoming Era:

### How to tackle the menace of Cyber Crime:

### Conclusion:

"Passwords are like underwear: don't let people see it, change it very often, and you shouldn't share it with strangers."

..... Chris Pirillo (Founder and ex- CEO of Locker Gnome)

## **19. Rohingya repatriation crisis and Bangladesh**

**"The Rohingya are the world's largest landless and oppressed ethnic group"**

**---Ban ki Moon, Ex UN secretary**

**Introduction:** Nearly 1.2 million Rohingya live in Bangladesh, the majority of whom fled a brutal military crackdown in the Rakhine of Myanmar in Aug. 2017. Most of them are housed in overcrowded camps in Cox's Bazar district, but around 30,000 have been relocated to Bhasan Char islet since late 2020.....

**Reparation contract:** 23 November 2017...first repatriation date was 15 November 2018...

**Geopolitical challenges hamper Rohingya repatriation from Bangladesh:**

**Problem and risk of Bangladesh rohyinga refugee crisis:**

- Deterioration of law and order situation
- Internal security crisis
- financial crisis
- Deforestation
- Increase in criminal activity
- Increase in drug smuggling

**Threats to the displaced Rohingya population**

1. lack of human security
2. human trafficking
3. lack of sufficient finding

## **Rohingya influx strains Bangladesh's social cohesion:**

1. intensified competition in the labor market
2. ....

## **The Rohingya crisis as a geopolitical flashpoint:**

### **Bangladesh's approach to solving the Rohingya refugee crisis:**

#### **1. Ex PM Sheikh Hasina's five proposals**

- Myanmar must unconditionally stop the violence and the practice of ethnic cleansing in the Rakhine State immediately and forever.
- Secretary General of the United Nations should immediately send a Fact-Finding Mission to Myanmar.
- All civilians irrespective of religion and ethnicity must be protected in Myanmar. "Safe zones" could be created inside Myanmar, under UN supervision, for this purpose.
- Ensure the sustainable return of all forcibly displaced Rohingyas in Bangladesh to their homes in Myanmar.
- The recommendations of the report by the Kofi Annan Commission must be immediately implemented unconditionally and, in its entirety,

#### **2. Asryan Project III and Bhasanchar**

#### **3. Complaints to the International Criminal Court**

#### **4. International efforts**

#### **5. Provision of education and food for Rohingyas**

#### **6. Medical facilities**

#### **7. Diplomatic efforts**

### **Criteria for sustainable repatriation:**

- Demand for socio-economic, civil rights, and community services
- Safety, security and justice for the genocide
- Stopping all kinds of violence and oppression
- Ensuring social and civil rights that come from citizenship
- Availability of community services and facilities
- The geopolitical race

## **Challenges of Rohingya Refugee Repatriation from Bangladesh**

### **Geopolitical Challenges:**

1. **China's Interest:** In Rakhine State, China invested 15 Billion USD in oil-gas and mineral sector within 1988-2014
2. **Indian Interest:** India Run many projects in Rakhine State such as Kaladan Multimodal project, two water electric Center, Four Lane High way projects among India-Myanmar and Thailand etc.
3. **Russian Interest:** Russia is one of the powerful states in the world. Myanmar have a relation to buying Helicopters, Gunship and mig-29 airships from Russia. In 2015, bilateral trade reached \$130.5 million. This was small compared to trade with China, which reached \$10 billion. In 2017, Myanmar-Russia trade is expected to increase to \$500 million.<sup>106</sup>In recently, 20 January 2018, Russia and Myanmar implement a large-scale plan for the bilateral military cooperation that was discussed before 2016.

### **Negative Global Response to the Repatriation Process:**

1. China
2. India
3. Thailand
4. Sri Lanka
5. Japan
6. Russia
7. United Nations (UN)

### **Conclusion:**

## **20. Global Economic Crisis: Perspective Bangladesh**

### **Introduction:**

The global economic crisis has far-reaching implications for nations across the world, including Bangladesh.

#### **1. Trade and Exports:**

- Bangladesh experienced robust economic growth, with GDP growth averaging around 6-7% before the global economic crisis.
- According to Global Financial Integrity (GFI), a Washington-based research institute, Bangladesh lost approximately \$8.27 billion annually on an average between 2009 and 2018 because of traders misinvoicing the values of import-export goods to avoid taxes and/or to move money out of the country.

#### **2. Remittances:**

#### **3. Agriculture and Food Security:**

#### **4. Foreign Direct Investment (FDI):**

#### **5. Government Response and Policy Measures:**

#### **6. Digital Transformation and Innovation:**

#### **7. Global Cooperation and Partnerships:**

#### **8. Social Impacts and Inequality:**

#### **9. Healthcare Infrastructure and Pandemic Response:**

#### **10. Climate Change and Environmental Resilience:**

#### **11. Education Sector Challenges:**

#### **12. Currency Fluctuations and Inflation:**

#### **13. SMEs and Microfinance:**

#### **14. Global Supply Chain Diversification:**

#### **15. Labor Market Dynamics:**

#### **16. Tourism Sector Challenges:**

#### **17. Debt Management and International Financial Support:**

- Bangladesh's foreign debt more than tripled in just 10 years, rising to \$91.43 billion in 2021 from \$27.05 billion in 2011, according to a World Bank report.

#### **18. Political Stability and Governance:**

### **Conclusion:**

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