



Track 2: Innovative Low-Carbon Technologies

Session 2.1

Integrating Low-Carbon Technologies to Accelerate the Energy Transition

Energy Efficiency & Conservation Through Low-Cost Financing in Bangladesh

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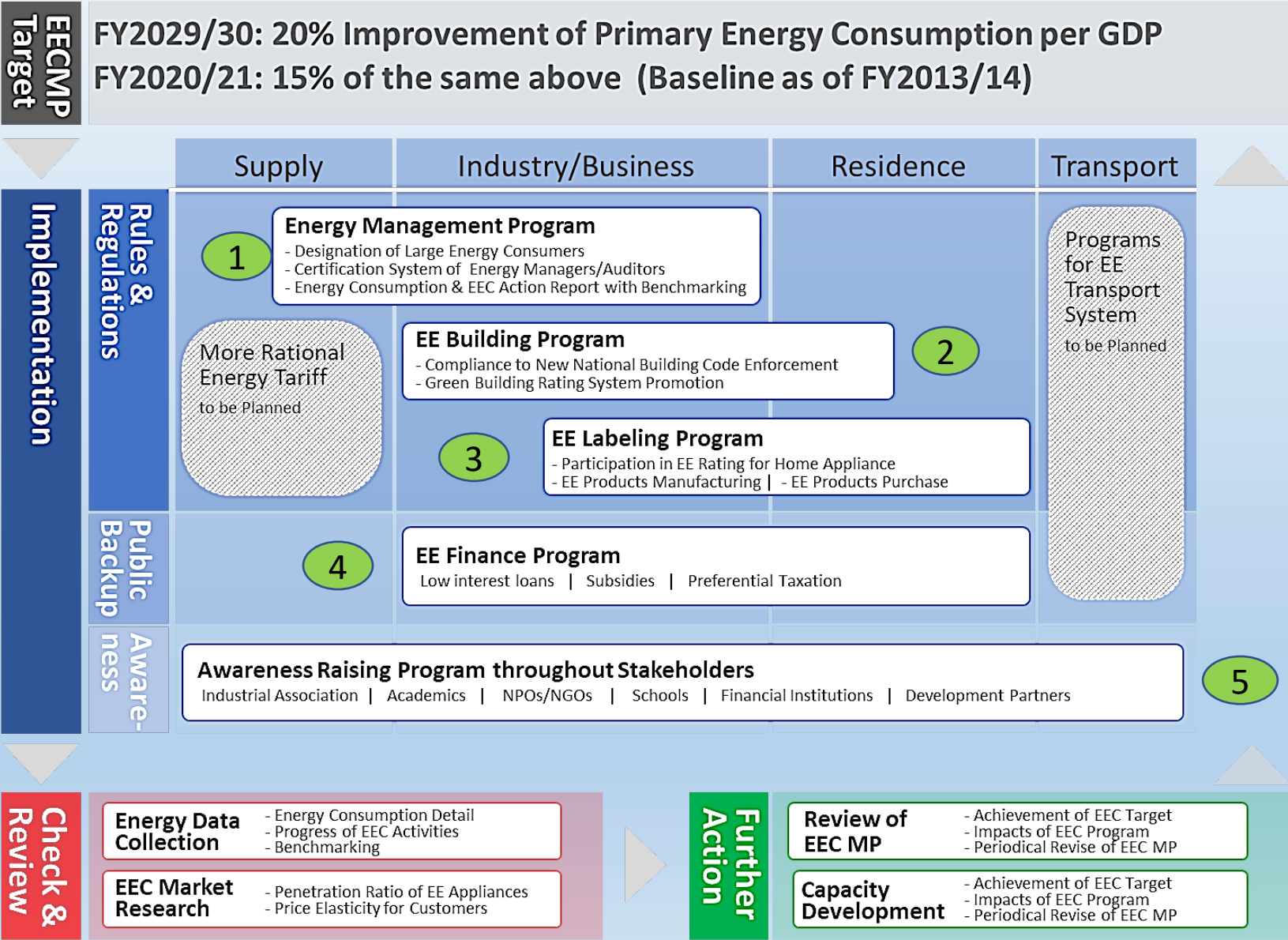
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Energy Efficiency & Conservation (EE&C) initiatives - Masterplan



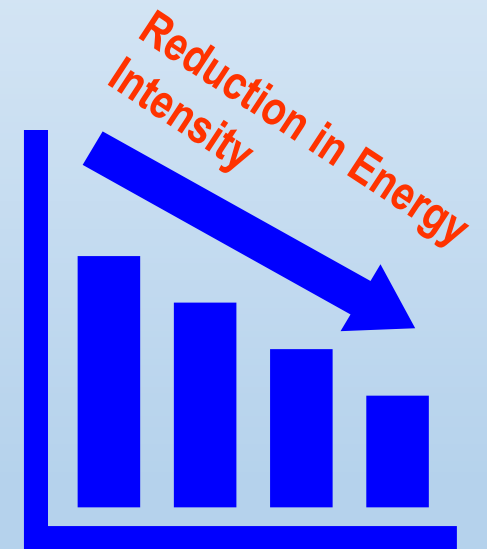
**Prepared with
JICA assistance**

Energy Efficiency & Conservation Target in Bangladesh

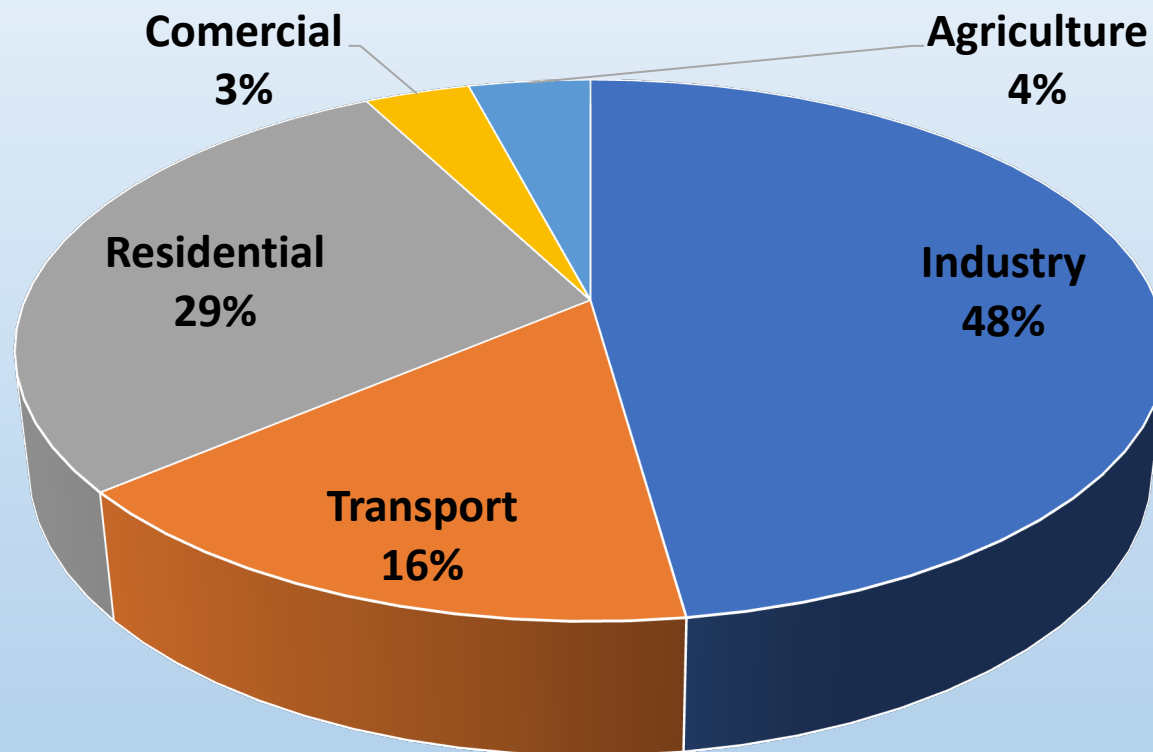


- 15% reduction* in Primary Energy Consumption per GDP by 2020-21
- 20% reduction* in Primary Energy Consumption per GDP by 2029-30
- Electricity demand save: 7400 MW by 29-30
- Emission reduction : 246.5 million ton in Project period

* *Baseline as of FY 2013/14*

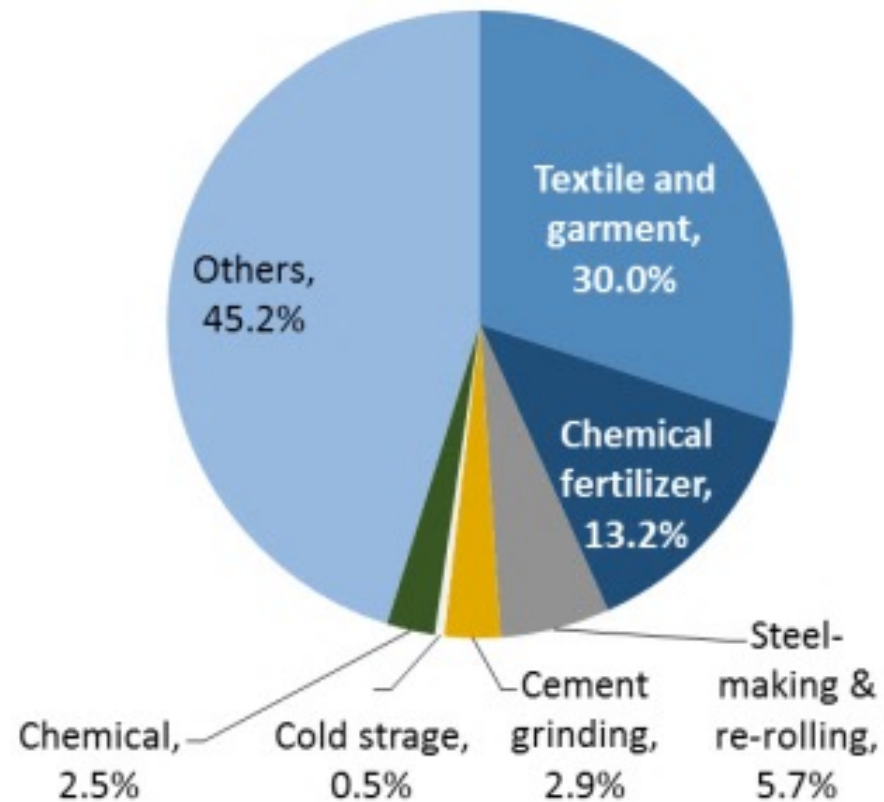


Final Energy Consumption by sector (Excluding Biomass)

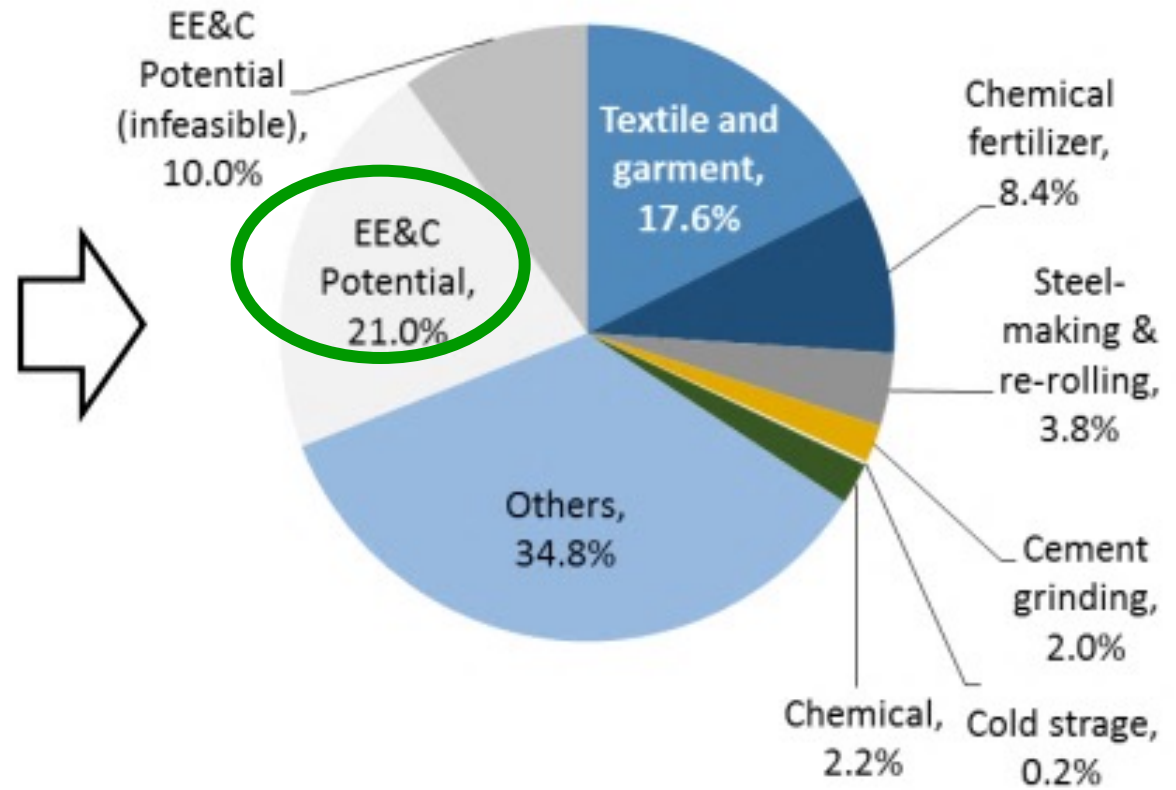


■ Industry ■ Transport ■ Residential ■ Comercial ■ Agriculture

EE&C potential in Industrial Sector

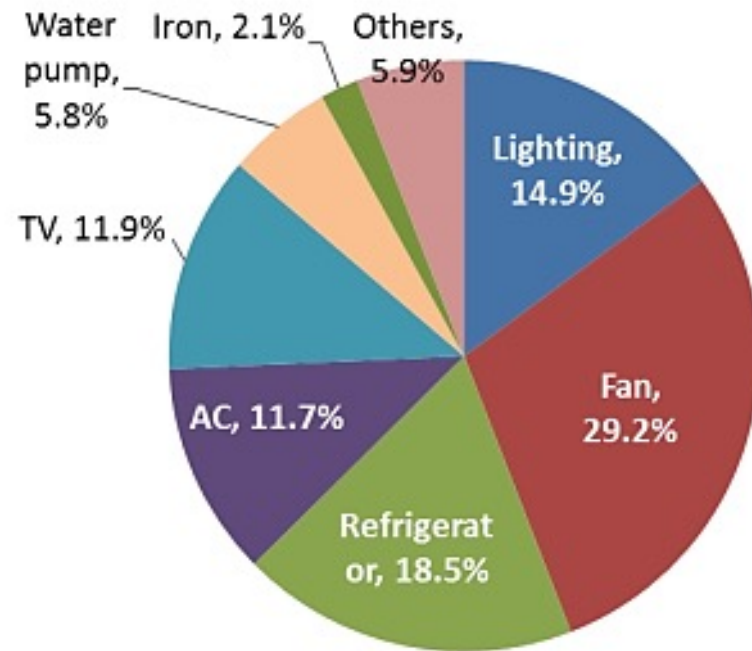


A: Present Energy Consumption

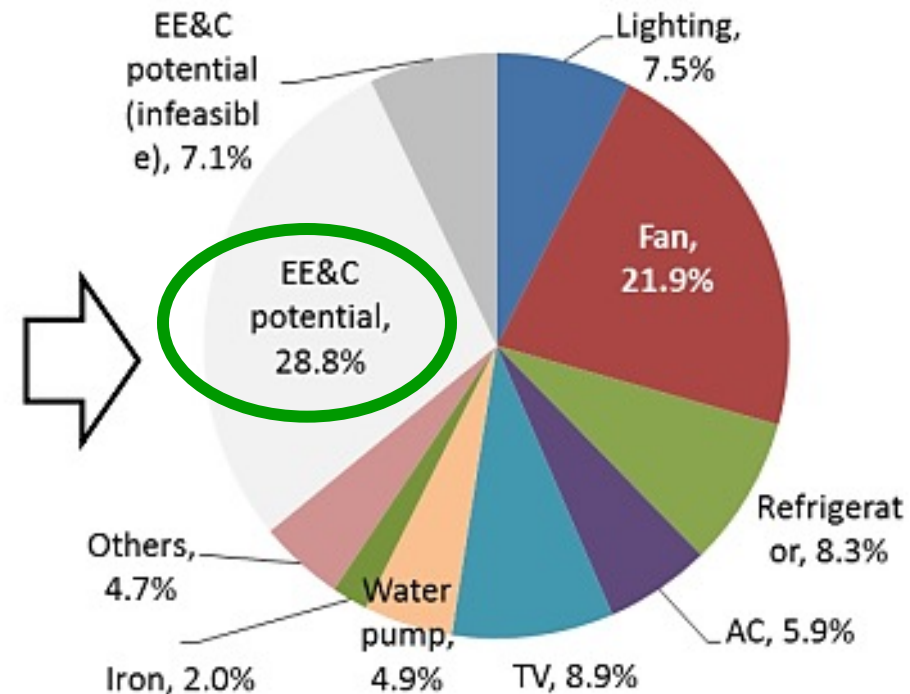


B: EE&C Case Energy Consumption

EE&C potential in Residential Sector



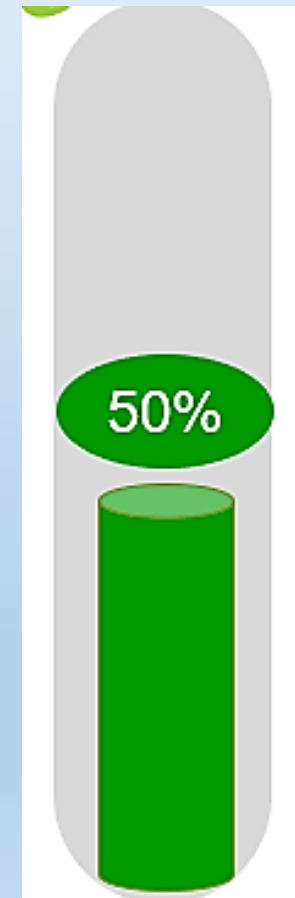
A: Present Electricity Consumption



B: EE Case Electricity Consumption

EE&C Potential in Commercial Sector (Buildings)

- Replacement of ACs with Energy Efficient ACs
- Lighting systems with high energy efficiency
- Saving : 50% of total in the building sector



Source: EE&CMP up to 2030

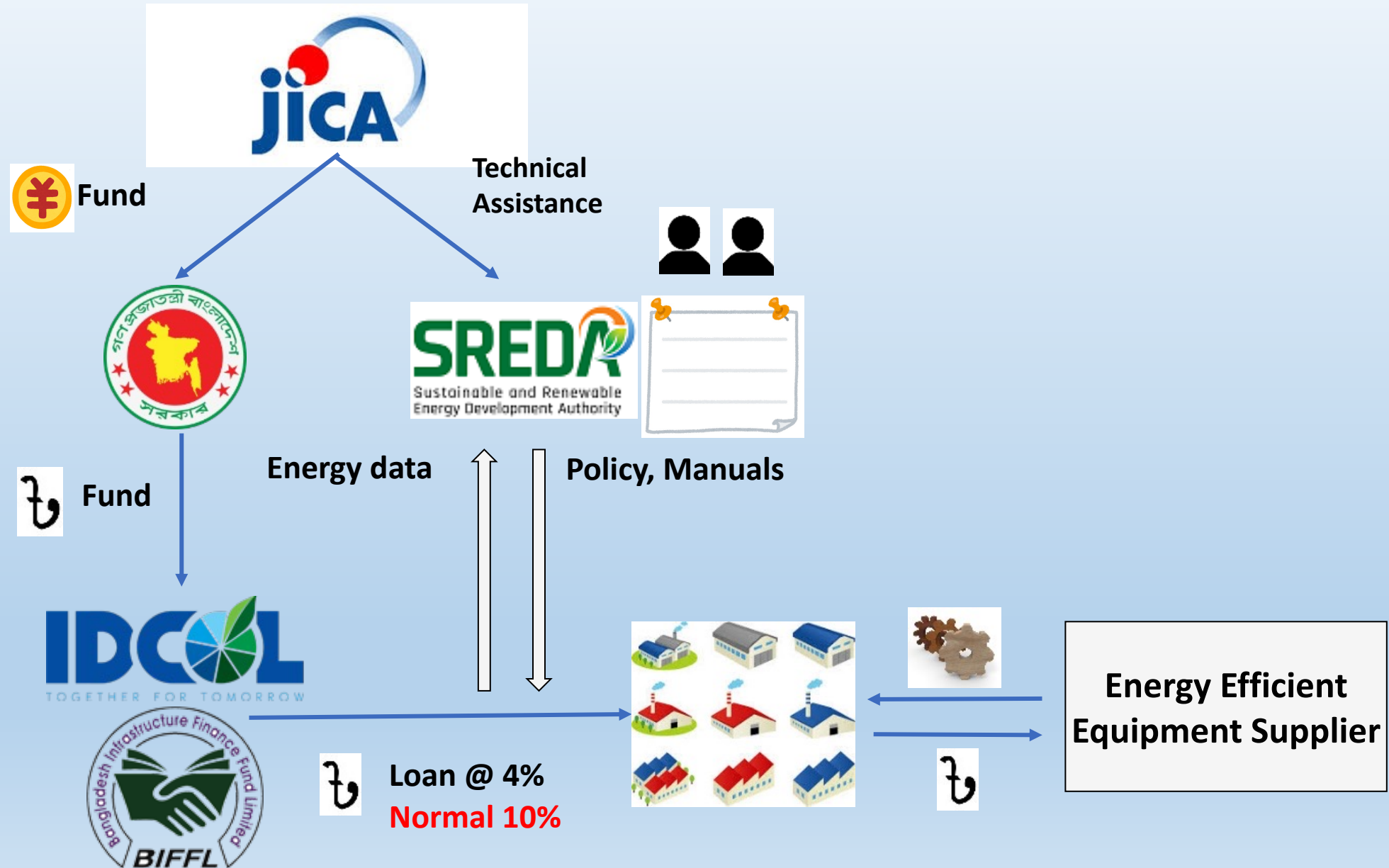
Why Energy Efficiency?

- Energy is too cheap to be made efficient
- Funding?
- High lending rates
- Lack of awareness about Lifecycle cost

Energy Efficiency Financing Program

- ❖ **Low interest loans under Energy Efficiency and Conservation Promotion Financing Project (EECPFP) by Japan (JICA)**
- ❖ **Extended to industries to remove cost barriers in buying energy efficient equipment**
- ❖ **Total Loan amount (Phase 1& 2) : 240 Million USD**
- ❖ **A data analysis and statistics handling system has been developed to monitor the progress of such activities**

Energy Efficiency & Conservation Promoting Financing Project



EE&C Awareness Raising Program

- ❖ Massive awareness
- ❖ Government Officials/
Business men/Politicians
- ❖ Schooling Program
- ❖ Education to elderly
- ❖ Poster Design Competition
- ❖ Energy & Power Week
- ❖ Broadcasting audio-visual
through TVC, RDC & Social
Media (LinkedIn, Facebook)
- ❖ Webinars/Training/
Workshops on EE&C topics



EE&C Awareness Through LinkedIn & Facebook

The screenshot shows a LinkedIn group page for 'Energy Saving & Efficiency Campaign'. The group is owned by Shah Zulfikar Haider PEng, CEA MBA, and has 596 members. The page includes a search bar, navigation tabs (Home, My Network, Jobs, Messaging, Notifications, Me, Work), and a sidebar with recent posts and groups. The main content area features a post by Shah Zulfikar Haider PEng, CEA MBA, titled 'Utility Service Quality will also Improve Energy Efficiency', which includes a video of a man speaking. The post also mentions a survey on service quality in the power sector and provides a link to the survey results.

The screenshot shows a Facebook group page for 'Energy Efficiency Campaign Bangladesh'. The group is administered by Shah Zulfikar Haider and has 596 members. The page includes a search bar, navigation tabs (Home, Find), and a sidebar with about, discussion, members, events, photos, files, group insights, watch party, moderate group, group quality, and shortcuts. The main content area features a post by Shah Zulfikar Haider, Admin, titled 'Training on Water & Energy Conservation and Medical Waste Management in Dhaka, Bangladesh'. The post describes the training as part of the 'Urban Primary Health Care Services Delivery Project' and mentions technical support by IPTM. Below the text is a photo of a man standing in front of a banner for the training, which also lists the dates as 06-08 October 2020.

Achievements so Far



117

**GWH
SAVED/YEAR**



32

**MW
POWER RELIEVED**



70k

**TON-CO₂
REDUCTION**



2100

**MAN-DAYS
TRAINING**

Impact of the Project

- Industries cost of production decreased
- More competitive
- Other Industries also acquiring Energy Efficiency through own fund
- Export Price more competitive – Economic boom
- Overall electricity demand decreased
- Emission reduction
- New employment avenues



“ ... and there is no shame in turning off the switch while leaving the room. This is something I do myself too, though I am a Prime Minister. Therefore, I encourage everyone to use electricity as if it is your own and bring out an embedding conviction to save or conserve it.”

- Sheikh Hasina, Hon'ble Prime Minister, Government of the People's Republic of Bangladesh

(Collected from the speech of the Hon'ble Prime Minister at the inaugural ceremony of the Power and Energy Week 2018)



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Thank You

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