

IDCOL Renewable Energy Overview



An Overview of IDCOL



- A fully government owned financial institution
- Started operation in 1997
- Catalyzes private sector participation in infrastructure and renewable energy projects/programs
- Largest financier in private sector infrastructure projects in Bangladesh
- Market leader in renewable energy financing



Infrastructure & PPP



Energy Efficiency



Renewable Energy



Green Climate Fund



Advisory Services

Fund Management

Financing Facility



Approved: USD 2.6 Billion

Utilized: 1.60 Billion

Available: 1.00 Billion

IDCOL's Infrastructure and Energy Efficiency Snapshot



IPP Projects

Port Projects

4,001 MW
(31% of private sector power generation)

22% of export container handling capacity



ICT & Telecom

Economic Zones

USD 116 million investment

Approved Financing of BDT 612 cr. in 4 EZs



Offshore LNG Terminal

Financed country's 1 of only 2 offshore LNG Terminals



PPP Project

Industrial Backward Linkage

Financed 1st PPP project in healthcare sector

BDT 1,520 cr. in 9 industrial backward linkage projects



IDCOL's Renewable Energy Snapshot



5.2 Million SHS
– 210 MWp



1,490 Solar Irrigation Pumps
– 40 MWp



26 Solar Mini grid Projects
– 5 MWp



6 Ground Mounted Solar
Projects – 363 MWp



72,000 Biogas Plants



3.9 million Improved Cook-
stoves



192 MWp Solar Roof top
Projects



300,000 Solar Street Lights
-15 MWp

Combined Capacity is 825 MWp



IDCOL's Experience in CDM



IDCOL's CDM Projects – SHS Program

- Program Started : 2003
- Target Area : Off-grid areas of Bangladesh
- Target Customers : Households, Communities, SMEs
- Registered at CDM : June 2012
- CER/SHS/year : 0.22 CER
- Lifetime of a SHS : 10 years

CER Issue Period	Amount (million CER)	Issue Date	Status
Jul'12 – Sep'14	0.41	7 Aug'15	Sold to CDCF
Oct'14 – Dec'15	0.44	28 Nov'16	
Jan'16 – Jun'19	1.22	19 Nov'21	Agreement signed with EKI
Jul'19 – Dec'24	1.50	Potential	
Total	3.57		

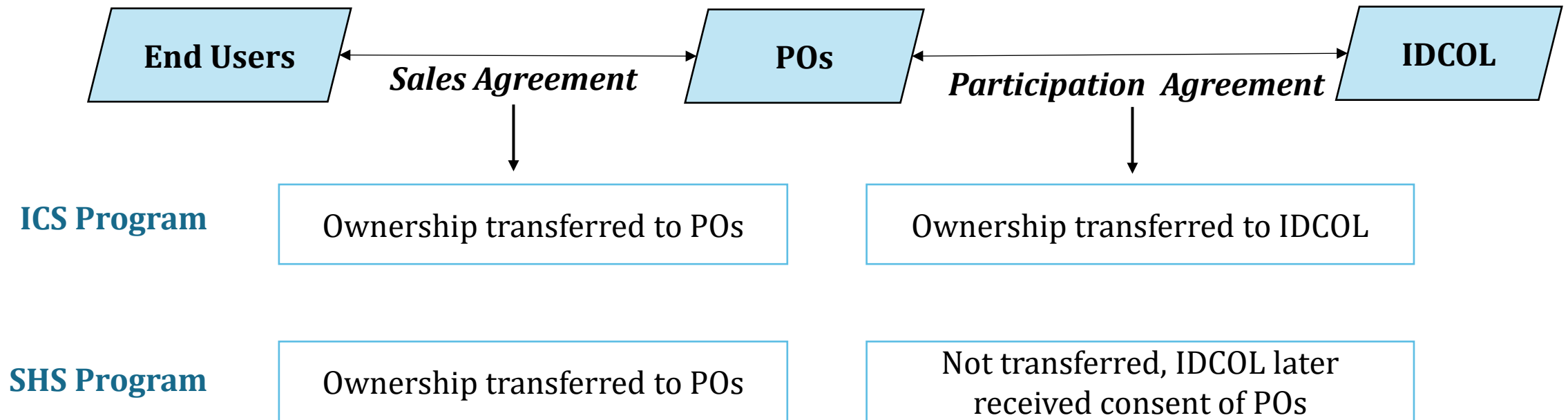
IDCOL's CDM Projects – ICS Program

- Program Started : 2013
- Target Area : All over Bangladesh
- Target Customers : Households using traditional stoves
- Registered at CDM : October 2019
- CER/ICS/year : 1.22 CER
- Lifetime of an ICS : 03 years

CER Issue Period	Amount (million CER)	Issue Date	Status
Jan'20 – Aug'20	0.46	8 Apr'21	Sold to EKI
Sep'20 – Dec'20	0.28	13 Apr'23	
Jan'21 – Nov'21	1.04	2023 (provisional)	
Dec'21 – Dec'24	3.50		

Ownership of CERs

- The ownership of CERs is dictated by agreements signed among IDCOL, POs, and End Users.



Sale of CERs

Sales to Community Development Carbon Fund (CDCF)

- IDCOL signed ERPA with CDCF under SHS Program with World Bank support in 2007
 - **0.72 million CERs**
 - **0.13 million CERs**

Sales to Enking International (EKI)

- IDCOL signed ERPA with EKI for sale of **1.68 million CERs** in 2022
 - **ICS Program:** 0.46 million CERs from sold
 - **SHS Program:** 1.22 million CERs from will be sold

Use of the CER Sales Proceeds

- IDCOL shares a portion of sales proceeds to POs:
 - To provide services to the customers
 - To extend support in monitoring
- Rest is used in different renewable energy initiatives of IDCOL:
 - Solar Irrigation
 - Domestic Biogas etc.

Ci-Dev and Transition from CDM to Article 6

Ci-Dev

Carbon Initiative Development (CI-Dev), a World Bank trust fund

- In 2021, Ci-Dev expressed interest to purchase Emission Reductions (ER) generated during 2021-2024 under IDCOL SHS Program.
- The indicative price offered was **higher than** market price
- **The reason for higher price:** The World Bank expected IDCOL to utilize major portion in its RE initiatives.
- The Ci-Dev donor countries required the Program to be registered under Standardized Crediting Framework (SCF) of the GOB.

CDM

- CDM discontinued after **2020**.
- Replaced by **Article 6 of the Paris Agreement**.
- CER is termed as **ER** under Article 6.

Article - 6

- In July 2024, the Bangladesh A6 Designated National Authority (DNA) was established under MoEFCC.
- DNA will register projects and issue ERs.
- In Nov'24, DNA adopted SCF and registered IDCOL SHS Program.

Fund Requirement for RE & Availability

In USD Million

Project	Additional Target	Total Cost	Equity	Comm. Bank Loan	WB Loan	Other DFI Loan	IDCOL Own Fund	Grant from DFIs	Carbon Credit
Rooftop Solar Project	900 MWp	300	50	-	100	100	50	-	-
Utility-scale Solar Project	1250 MW (1750 MWp)	1,400	350	420	130	400	100	-	-
Merchant Power Plant	1000 MWp	800	240	240	100	170	50	-	-
Domestic Rooftop Solar	1850 MWp	500	200	-	100	200	-	-	-
Solar Irrigation Pump	169 MWp (8500 Pumps)	300	60	-	50	70	-	120	-
Clean Cooking	10 million Stoves	200	30	-	50	-	-	25	95
Commercial Biogas	35 MW	100	30	-	20	50	-	-	-
Domestic Biogas	50,000 plants	15	3	-	-	-	-	12	-
Total	4550 MWAC (5704 MWp)	3,615	963	660	550	990	200	157	95

Carbon Emission Reduction Plan

Project	Additional Target	Yearly Emission Reduction (tCO ₂)	Lifetime	Emission Reduction in Lifetime (tCO ₂)
Rooftop Solar Project	900 MWp	0.57 million	20 Years	11.4 million
Utility-scale Solar Project	1,750 MWp	1.31 million	20 Years	26.2 million
Merchant Power Plant	1,000 MWp	0.75 million	20 Years	15.0 million
Domestic Rooftop Solar	1,850 MWp	1.22 million	20 Years	24.4 million
Solar Irrigation Pump	169 MWp (8,500 pumps)	0.08 million	20 Years	1.66 million
Clean Cooking	10 million Stoves (5 m Electric, 5 m ICS)	7.5 million	5 years	37.5 million
Commercial Biogas	35 MW	0.06 million	20 Years	1.22 million
Domestic Biogas	50,000 plants	0.05 million	20 Years	1.0 million
Total	5,704 MWp	11.5 million		118.4 million

Thank You!

