

Minutes of the meeting of the Expenditure Finance Committee (EFC) held on 21.12.2023 at 03.30 PM in 2nd Floor Conference Hall of Kharvel Bhawan, Energy Department for appraisal of CMPDP – Green Energy Evacuation Transmission Corridor and CMECP – Energy Conservation Program (Energy Clubs).

The meeting was chaired by Principal Secretary, Finance & Energy. It was attended by Chairman-cum-MD, OPTCL, and Officers from Finance Department, Energy Department, P&C Department, Women & Child Development Department, Health & Family Welfare Department, Forest, Env. & CC Department and TP-DISCOMs. The list of participants is at Annexure-I.

At the outset Principal Secretary, Finance & Energy welcomed all the officials to the meeting. The following two proposals of Energy Department were placed before the EFC for appraisal.

1. CMPDP – Green Energy Evacuation Transmission Corridor; and
2. CMECP – Energy Conservation Program (Energy Clubs).

Presentations on the above proposals were made by OPTCL & EIC (Elec)-cum-PCEI, respectively, to facilitate the discussion. After thorough deliberations, following decisions were taken:

1. CMPDP – Green Energy Evacuation Transmission Corridor.

Initiating the discussion, CMD OPTCL briefed the Principal Secretary, Finance about the proposed scheme. It was appraised that the Odisha Renewable Energy Policy, 2022 was released during FY 2022-23. The present scheme has been designed as a new scheme namely CMPDP-Green Energy Evacuation Transmission corridor for providing support to OPTCL for creation of necessary Transmission Corridor / Network for evacuation of the power generated from Renewable Energy (RE). The objectives of the scheme are –

- a. To create a conducive environment for RE development.
- b. To evacuate RE power from Southern & western belt of Odisha.
- c. To meet the RE obligation of the industries and to meet the demand of load centre at Coastal & Northern part of the state.
- d. To improve the System availability & reliability.
- e. To meet the net zero commitment of the state.
- f. To attract investment in the clean energy sector, create job opportunity & develop the state economy.

The scheme would be implemented in five years starting from 2023-24 to 2027-28 with a budgetary support of Rs.1345.00 crore. The scope of the work is as following:

(₹ in crore)								
Sl. No.	Name of the Project	Unit	2023-24	2024-25	2025-26	2026-27	2027-28	Estimated Cost
1	400kV Bay at Theruvali	2 No	0	0	4	5	1	10
2	400kV Theruvali to Indravati D/C Line	100 Km	0	48	100	100	82	330
3	400kV Pandiabil to Gopalpur D/C Line	185 Km	58	200	200	152	0	610
4	400/220/132kV Grid Substation at Gopalpur	1 No.	10	90	90	60	0	250
5	220kV D/C Line (LILO of Narendrapur – Atri at Gopalpur)	20 Km	0	17	17	10	0	44
6	132kV Line (LILO of Sonpur – Boudh line)	20 Km	2	9	9	6	0	26
7	132/33kV Grid Substation at Manmuda	1 no	7	25	25	18	0	75
Total			77	389	445	351	83	1345

Sl. No.	Name of the Project	Transmission Plan	Tentative Estimated Cost
1	Evacuation of 600 MW Pumped Storage at Indravati	i. 400kV D/C connectivity between Indravati to Theruvali with 2Nos bay at proposed 400kV GSS at Theruvali. ii. Further 400/220kV Theruvali GSS & 400kV Theruvali – Gopalpur and Theruvali – Jeypore D/c line will be taken up under TBCB.	₹ 340.00 Cr (330Cr for TL+10 Cr for Bay)
2	Infrastructure at Gopalpur for Green Hydrogen/ Ammonia sector	iii. 400/220kV GSS at Gopalpur with 400kV D/c connectivity to Pandiabili GSS. iv. LILo arrangement of 220kV Narendrapur – Atri D/c line at Gopalpur.	₹ 904.00 Cr (250Cr–GSS + 610Cr–400kV TL + 44Cr–220kV TL)
3	Evacuation of 50MW Solar plant at Manmunda	v. 132/33kV GSS at Manmunda with LILo arrangement from 132kV Sonapur to Boudh S/c Line	₹ 101.00 Cr (75Cr–GSS + 26Cr–132kV TL)
Total			₹ 1345.00 Cr

CMD, OPTCL also appraised the Committee on the proposal sent to MNRE for development of Green Energy Evacuation Transmission Corridor in the State for evacuation of RE power to achieve 500 GW of RE capacity by 2030.

Taking note of the above, the EFC recommended the proposed CMPDP-Green Energy Evacuation Transmission Corridor to be implemented from FY 2023-24 to FY 2027-28 with a total project outlay of Rs.1345.00 crore in the following manner:

- Rs.340.00 crore for Evacuation of 600 MW Pumped Storage at Indravati project is to be met through 100% Equity support of the State Government.**
- Rs.904.00 crore for Infrastructure at Gopalpur for Green Hydrogen/ Ammonia sector is to be taken up with 30% equity support from State Government and the balance 70% is to be arranged by OPTCL.**
- Rs.101.00 crore for Evacuation of 50MW Solar plant at Manmunda is to be taken up with 30% equity support from State Government and the balance 70% is to be arranged by OPTCL.**

2. CMECP – Energy Conservation Program (Energy Clubs)

EIC(Elec)-cum-PCEI appraised the Committee that proposal is for **expansion** of the Energy Club programme by creating energy clubs in **additional 7679** new schools identified by Mo School Abhiyan Parichalana Sangathan and to revise the cost of the programme, accordingly. As it is an ongoing scheme and appraisal for creation of 1000 energy clubs has already been taken in the SFC meeting dated 19.03.2021, the present proposal is for creation of energy clubs in 8679 Schools.

The scheme is executed and monitored by the Centre for Environment Studies of Forest, Environment & Climate Change Department and EIC (Elec)-cum-PCEI, Odisha. The objective of the scheme is to educate and train school students and teachers about energy conservation, use of renewable energy, ways to reduce energy consumption, promotion of Energy Star Labeling through padayatras, street plays, poster exhibition, leaflet distribution and door to door visits. Training on various energy sources, energy conservation, efficient use of energy, benefits of renewable energy sources, electrical safety measures, water conservation is also imparted to the students.

The scheme is to be implemented in five years at an estimated cost of **Rs.54.60 crore**. The detail of fund requirements is as follows:

Particulars	Amount (₹ in crore)
1000 Energy Clubs @Rs.10,000/- to each	1.00
Programme and administrative expenditure of Nodal Agency	0.20
Annual requirement	1.20

The Proposed Budget for the additional 7679 energy clubs is as following:

Head of expenditure	Amount (₹ in crore)
Grant to 7679 energy clubs @Rs.10,000/-	7.68
Capacity building of Energy Club teachers	0.49
Development of knowledge products	0.20
Monitoring in field awareness activities & compilation of report	0.18
Organising online competitions, awards and portal development & maintenance	0.13
organising function and exhibition	0.40
Manpower to be engaged	0.16
Administrative expenses of CES	0.46
Total (rounded) requirement per annum	9.72

Year wise cost breakup for Energy Club Programme
(₹ in crore)

Sl. No.	FY	No of Schools	Amount	Total Amount
1	2021-22	1000	1.20	1.20
2	2022-23	1000	1.20	1.20
3	2023-24	1000	1.20	10.92
4		7679	9.72	
5	2024-25	1000	1.20	10.92
6		7679	9.72	
7	2025-26	1000	1.20	10.92
8		7679	9.72	
9	2026-27	7679	9.72	9.72
10	2027-28	7679	9.72	9.72
Total			54.60	54.60

Total Cost of the Programme

(₹ in crore)		
No. of Schools	Cost per annum	Cost for 5 years
1000 (existing Energy club Schools)	1.20	6.00
7679 (additional schools to be added in Energy Club)	9.72	48.60
Total Schools= 8679	10.92	54.60

- The Scheme will be audited through an Independent Agency to identify the effectiveness of the scheme.

- An award will be instituted, to be given to three best performing schools in adoption of energy conservation measures and to gauge the efficacy of the said scheme.

Taking note of the above, the EFC recommended the proposal of Energy Conservation Program (Energy Clubs) with a total cost of Rs. 54.60 Crores with 100% budgetary support from the State Govt. to be implemented over a period of 5 years.



Principal Secretary to Government

Finance Department

Annexure-I**List of Participants:**

1	Principal Secretary to Government, Finance Department
2	Chairman-cum-Managing Director, OPTCL
3	Director, ICDS & Social Welfare, W&CD Department
4	Director, Budget, Finance Department
5	EIC(Elecy)-cum-PCEI, Odisha
6	Director, Health Services
7	CEO, OREDA
8	Director (Operation), OPTCL
9	FA-cum-Additional Secretary, Energy Department
10	Additional Director, P&C Department
11	Joint Secretary, Finance Department
12	Under Secretary, Finance Department
13	Head Customer Services & Key Customer Group, TPCODL
14	Consultant, RE TPCODL
15	Program Officer, CES, FE&CC Department
16	Information Officer, CES, FE&CC Department