ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
Bruhat Bengaluru Mahanagara Palike

Office of the Special Commissioner, Forests, Environment, Climate Change Management

Proceedings of meeting held on 19-06-2025 under the Chairpersonship of Special Commissioner (Forest, Environment, Climate Change Management) regarding the Implementation of Bengaluru Climate Action and Resilience Plan (BCAP)

Date: 19.06.2025 Time: 11:00 AM - 1:00 PM Venue: BBMP Head office

Participants:

1. Smt. Preeti Gehlot, IAS, Special Commissioner (Forest, Environment, Climate Change Management) BBMP
2. Ashok Kumar , Manager, BESCOM
3. Chikkegowda,DGM, BESCOM
4. Uma H M , GM, BESCOM
5. Ramesh Gudi,CGM, BESCOM
6. R H Kori,AGM, KREDL
7. Ashok, AGM, KREDL
8. V Ananda, Electrical, BBMP
9. Santhosh Kumar, ACF, BBMP
10. Sanjana, Anantha from C40
11. Saptak, Madiha, Gautham, Suhas from CSTEP
12. Anand, SE Electrical, BBMP
13. Benjamin and Sanjana, C40
14. Gautham and Suhas, CSTEP
15. Bhuvana, CAC Fellow, BBMP

Agenda:

1. Discuss on the key findings from the Rooftop solar project
2. To discuss on the next steps and identify the nodal agency for implementation of the project

Discussion on Rooftop Solar project progress

- All 8 zones drone flying is completed and the data is being analysed
- Wherever there we issues with drone flying, especially in Yelahanka, Satellite images are being considered for the analysis
- Data was collected for 742 BBMP buildings as part of a rooftop solar (RTS) feasibility study.
- Electricity consumption data from BESCOM is available for 553 buildings.
- 110 buildings were found unviable for RTS due to unsuitable roof structures, sanctioned loads below 0.5 kW or significant shading.
- 443 buildings were identified as viable for rooftop solar installation.

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- Priority buildings are defined as those with a sanctioned load of 10 kW or higher and 80 buildings qualify as priority buildings, representing approximately 90% of the total sanctioned load of all viable buildings.

➢ CAPEX Model (Sanctioned Load Limit Scenario):
  - Estimated RTS potential: 3.71 MW (43% of total load of 8.57 MW).
  - Required investment: INR 18.55 crores.
  - Projected lifetime savings: INR 136.58 crores.
  - Estimated annual CO_2 emission reduction: ~3,778 tonnes.

➢ RESCO Model (Roof Saturation Scenario):
  - Estimated RTS potential: 6.20 MW (72% of total load).
  - No upfront capital investment required.
  - Projected lifetime savings: INR 33.52 crores.
  - Estimated annual CO_2 emission reduction: ~6,428 tonnes

Discussion on next steps

- BESCOM mentioned that Expression of Interest can be raised from their end for the project implementation
- The offset model was discussed, wherein any excess electricity generated by the rooftop solar (RTS) system could be redirected for use in other BBMP buildings instead of being fed back into the BESCOM grid
- The pros and cons of CAPEX and RESCO model was discussed where RESCO model seemed to be relatively viable than CAPEX
- CSTEP will develop financial models to establish a mutually agreeable RESCO tariff for BBMP and BESCOM to ensure project viability and stakeholder alignment
- CSTEP presented the gaps and recommendations for the uptake of Rooftop Solar on Government/Municipal buildings
- CSTEP has requested the nodal agency to facilitate round table meetings with all the key stakeholders, namely BBMP, BESCOM, KREDL, KERC, RTS Developers/vendors, Banks and Financial institutions to discuss key findings and align on Implementation Roadmap

Discussion on Floating Solar Panel Project

- The feasibility of implementing the floating solar panel project was discussed.
- Concerns regarding potential opposition from local citizens were raised.
- It was proposed to organize a meeting with all relevant stakeholder departments to deliberate on the possible advantages and challenges of the project.
- KREDL informed that funding is available for implementation in one lake, which could be considered as a pilot project.
- It was also suggested that, if the floating solar panel project does not proceed, installing solar panels on the STPs could be considered as an alternative.

Discussion on Location for EV charging for Heavy trucks fleet

- A proposal regarding EV charging infrastructure for heavy truck fleets was put forward by C40.
- C40 has identified potential locations on the outskirts of Bengaluru city for setting up EV charging stations.
- It was discussed that the viability of the project is uncertain without clear demand or data on the number of trucks being deployed by the company

Special Commissioner
(Forest, Environment, Climate Change Management)
Bruhat Bengaluru Mahanagara palike

Copy submitted to:

1. Hon'ble Administrator, Bruhat Bengaluru Mahanagara Palike for kind information
2. Chief Commissioner, Bruhat Bengaluru Mahanagara Palike for kind information

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1. M/s Lakes dept.
2. M/s. ACF Forest
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