

PAT Cycle VI DCs; Monitoring and Verification Audit

A team of energy experts, led by Mr. Johnson Daniel, Head-NMEEE, EMC, Mr. Subhash Babu B. V., Registrar, EMC accompanied by Mr. Aswin Mohan, Energy Manager, PAT cell inspected Monitoring and Verification Audit at M/s Bharat Petroleum Corporation Ltd. (BPCL) Kochi Refinery on 7th July 2023. The M & V audit was conducted by M/s Nin Energy India Pvt. Ltd. Mr. Johnson Daniel, and Mr. Subhash Babu B. V. are the inspecting officers of EMC-Kerala.

During the visit PAT cell team of EMC met with EmAEA engaged in PAT M&V of the DC, higher management, Energy Manager and Chief Engineer of the organisation and also had discussion on PAT scheme and Energy Conservation Act 2001 requirements.

From July 24th to July 31st, the PAT Cell team members Mr. Aswin Mohan and Mrs. Divine Angel visited M/s Kochi Marriott, M/s Holiday Inn, M/s Crowne Plaza, and M/s Grant Hyatt Kochi, all falling under PAT Cycle-VI, to assess the Monitoring and Verification (M&V) Audits. The M&V Audits in these DCs were conducted by the audit team from M/s MCJ Energy Engineers Pvt. Ltd.

PAT Cycle VI Completed DCs in Kerala (2020-2021 to 2022-2023)

- Bharat Petroleum Corporation Ltd. (BPCL) Kochi Refinery
- Kochi Marriott Hotel
- Holiday Inn Cochin Indroyal Hotels Pvt. Ltd.
- Crowne Plaza Kochi
- Grand Hyatt Kochi Bolgatty



M & V Audit at BPCL Kochi Refinery on 6th-8th July 2023



M & V Audit at Kochi Marriott on 24th & 25th July 2023



M & V Audit at Holiday Inn on 26th & 27th July 2023



M&V Audit at Crowne Plaza on 28th & 29th July 2023



M & V Audit at Grant Hyatt on 30th & 31st July 2023

Webinar on “Live Demonstration of BEE online facilitation centre for DCs”

The Energy Management Centre, in coordination with the PAT Cell as per the directions of the Bureau of Energy Efficiency (BEE), organized a webinar on “Live Demonstration of BEE Online Facilitation Centre for DCs” under the Perform Achieve and Trade (PAT) scheme for DCs in the state of Kerala on 30th June 2023. Mr. Sarath Krishnan S., Energy Technologist at EMC, provided a brief overview of the PAT cell’s activities and BEE’s support for energy efficiency



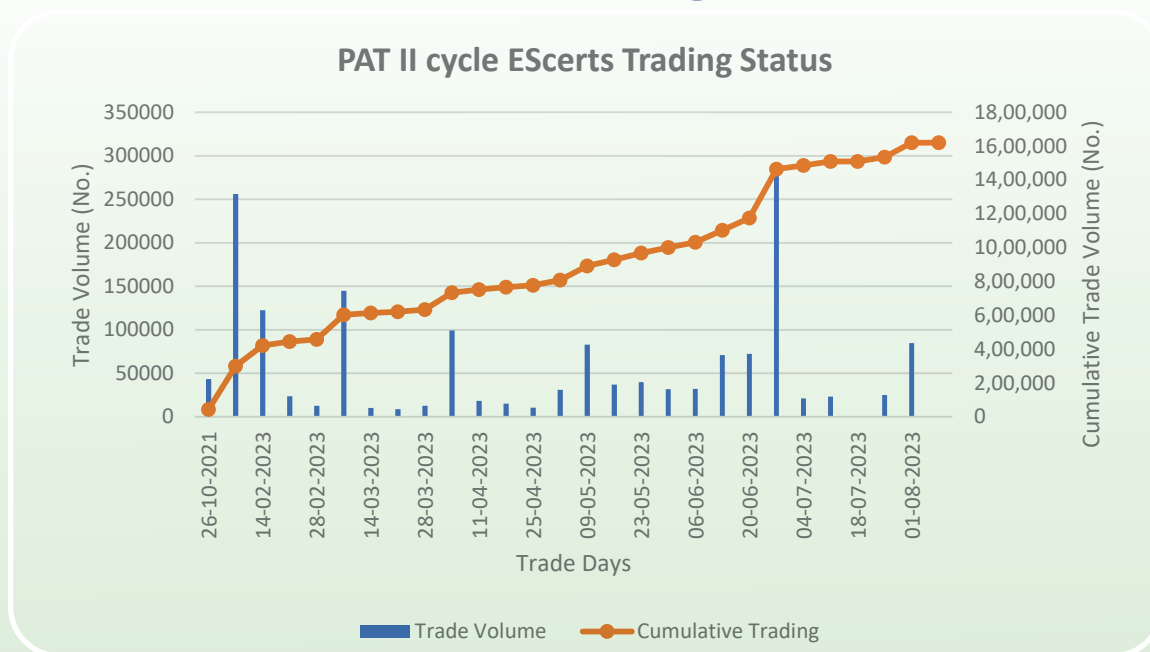
financing. He then welcomed the speakers for the session and the program participants. The sessions were handled by Ms Richa (Project Economist, BEE), Mr Sunil Sharma (Vice president, Energy and Environment, Darashaw & Co), and Ms Pallavi (IT Project Manager, Darashaw & Co). A total of 32 people attended the sessions. BEE’s Financial initiatives, Importance and functioning of PATNET portal, Demonstration of BEE Facilitation Centre, etc were the major topics covered.

Webinar on Heat Pipe Heat Exchanger and Its Applications

As part of a knowledge-sharing and capacity-building program, a webinar was conducted on ‘Heat Pipe Heat Exchanger and Its Applications’ on 25th May 2023.

Mr. Ganesh Bhat, Technical Director, and Mr. S. R. Bhat, Advisor (Mentor) of Comfit Enersav Pvt. Ltd. were the speakers

PAT 2 - Overview of ESCerts Trading in India



- In this cycle, a total of 28 trading sessions have occurred until 8th August 2023, with approximately 44% of ESCerts having been purchased by DCs.
- The ESCerts have been traded at the floor price of ₹1840 so far.

Updates in PAT (Perform, Achieve and Trade)

BEE published the latest list of Auditing Firms Empanelled to undertake M&V activity under PAT Cycle - VI as on 13th June 2023. (<https://beeindia.gov.in/en/programmesperform-achieve-trade/pat-recent-developments>).

13 New Sectors Added to PAT Scheme

The Central Government, in consultation with the Bureau of Energy Efficiency, vide S.O. 2523(E) dated 6th June 2023 hereby makes the following further changes in the threshold limit and included following energy intensive industries and other establishments, as designated consumers:

Sl. No.	Notified Sector	Threshold Energy Consumption in MTOE per year
1	Aluminium	7,500
2	Cement	
	(a) Integrated Cement Unit	30,000
	(b) Cement Grinding Unit	10,000
3	Commercial Buildings or Establishments	
	(a) Hotels	500
	(b) Airports	500
4	Chlor-Alkali	12,000
5	Electricity Distribution Companies (DISCOMs)	All licensed distribution companies by SERC/JERC
6	Fertilizer	30,000
7	Iron & Steel	20,000
8	Paper & Pulp	7,500
9	Petroleum Refinery	90,000
10	Petrochemical Units having Gas Crackers or Naphtha Crackers or both	1,00,000
11	Railways	
	(a) All zonal Railways (Traction)	70,000
	(b) Workshops	750
	(c) 8 Production factories of railways namely ICF, RCF, CLW, DLW, DCW, REF, MCF & RWP	-
12	Textile	3,000
13	Thermal Power Plant	30,000

Sl. No.	Notified Sector	Threshold Energy Consumption in MTOE per year
14	Petrochemical Manufacturing (As per MOP SO 4165 (E), 7th Sep 22)	
	Fiber Intermediates	50000
	Polymers	10000
	Detergent Intermediates	9000
	Performance Plastics	3000
	Other Petrochemical products	6000
	Synthetic Rubbers	15000
	Aromatics	20000
(MOP Notification S.O. 2523 (E), 6th June, 2023)		
15	Sugar	10000
16	Chemical	3000
	i) Alkali Chemical	3000
	ii) Inorganic Chemical	3000
	iii) Organic Chemical	3000
	iv) Pesticides (Technical)	3000
	v) Dyes and Pigments	3000
	vi) Pharmaceuticals (Active Pharmaceutical Ingredient)	3000
17	Ceramic	5000
18	Glass	10000
19	Zinc	20000
20	Copper	10000
21	Port Trust	500
22	Dairy	2500
23	Auto Mobile Assembly Unit	3000
24	Tyre Manufacturer	7000
25	Forging	1500
26	Foundry	5000
27	Refractories	3000

*MTOE - Metric Tonne of Oil Equivalent

* S. No. 15-27 is the newly added 13 sectors. | * Updated list on 6th June, 2023 | <https://beeindia.gov.in/sites/default/files/11b.pdf>

Threshold value of Pulp and Paper sector has been revised from 20,000 MTOE to 7500 MTOE by MoP, vide S.O. 2523(E) dated 6.6.2023



Final Extension of ESCerts Trading

**PAT 2 cycle ESCerts trading is extended
till 26th September 2023**

<https://escerts.gov.in/PortalUser/ViewFile?notelId=5f47b3db-f230-ee11-b879-001dd8b71f95>

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Government of India notifies Carbon Credit Trading Scheme 2023

The Ministry of Power (MoP), Government of India has notified the Carbon Credit Trading Scheme 2023, vide S.O. 2825(E). dated 28th June 2023, to develop the domestic carbon market as the country aims at decarbonising the economy and has committed to cut emissions by 45% from the 2005 levels by 2030. According to the scheme, the Central Government shall constitute the National Steering Committee for Indian carbon market which will monitor the functions of Indian carbon market and recommend to Bureau of Energy Efficiency (BEE) to issue carbon credit certificate, among other functions. The Grid Controller of India Limited shall be the registry, while the Central Electricity

Regulatory Commission shall be the regulator for the trading activities under the Indian carbon market. The commission shall register the power exchanges and approve the carbon credit certificate trading in the Indian carbon market, from time to time. Further, the power shall perform functions regarding trading of carbon credit certificates, in accordance with the regulations notified by the commission.



<https://beeindia.gov.in/sites/default/files/CCTS.pdf>

PAT BULLETIN

PAT CELL - EMC KERALA

JULY-AUGUST 2023

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