

Energy Efficient Ceiling Fans FAQ

A. Performance and Technical Queries

Q1. How much energy can I save by switching to an energy-efficient (EE) ceiling fan?

Most BLDC or 5-star EE fans consume 28–35 W, compared with 60–75 W for conventional models. That translates into approximately 50–60% electricity savings and a payback period of under two years, assuming an average daily use of 6–8 hours.

Q2. Will an EE fan deliver the same airflow as my existing fan?

Yes, provided you specify the required CFM (cubic feet per minute) in your procurement documents. BLDC fans can match or exceed the airflow of induction fans when the correct sweep size and blade design are selected.

Q3. Are EE fans reliable in dusty or high-moisture environments?

Look for sealed-motor designs and reinforced housings with appropriate Ingress Protection (IP) ratings. Five-year warranties with performance-linked penalty clauses help ensure long-term reliability.

B. Availability and Models

Q4. Which types of EE fans are available?

- BLDC Fans: Offer 50–65% savings; consume 28–35 W.
- Energy Efficient AC Induction Fans: Offer 30% savings; consume ~50 W.

Q5. Can I choose between remote-controlled and regulator-only models?

Yes. Both options are available – remote controls are standard on many BLDC fans, and regulator-only variants can be ordered by specifying this requirement.

Q6. How do I ensure genuine, certified products?

- Procure through verified marketplaces or authorised dealers.
- Verify BIS certification and batch test reports.
- Request factory test certificates for each batch.
- Use the [BEE Website](#) to search and evaluate fan performance across a wide range of models.

C. Specifications and Procurement

Q7. What key specifications should I include in my tender?

Specifications depend on your specific use case (e.g., residential, institutional, or industrial settings). Typical parameters to consider:

- Wattage (target ≤ 50 W for EE AC Induction fans, ≤ 28 W for BLDC)
- Airflow (CFM) tailored to room size and occupancy
- Sweep Size appropriate for ceiling height and area

- Ingress Protection (IP) Rating for harsh environments
- Warranty Period (recommend minimum 3–5 years with performance-linked clauses)

Q9. Can I include the disposal or buyback of old fans?

Yes, engage providers that offer end-to-end buyback and compliant disposal under one contract. Include ‘trade-in and scrappage’ terms in your tender documents.

D. Business & Financing Models

Q10. What financing options exist for EE fans?

- ESCO Shared-Savings: No upfront capex; repayments sourced from guaranteed energy savings.
- Fixed EMI: Fixed monthly payments aligned to budget cycles.
- Buy-Back Programs: Trade in obsolete fans at pre-agreed valuations (applicable to both options listed above).

Q11. How do ESCO models work?

An ESCO installs and maintains EE fans with zero upfront costs. You repay over a defined contract term from a share of the verified energy savings.

Q12. Who are typical ESCO or financing providers?

Multiple ESCO firms and financial institutions offer bundled solutions for fan replacement, disposal, and financing. You can select providers based on their experience and service offerings. Please contact AEEE and CLASP to help you connect with suitable providers.

E. After-Sales Support & Follow-Ups

Q13. What after-sales support should I demand?

- Service-Level Agreements (SLAs): Define response times and repair rates.
- Spare Parts Availability: Ensure PCBs, regulators, and blades are stocked post-warranty.
- Digital Tracking: Consider IoT-enabled portals for complaints, installation tracking, and maintenance scheduling.

Next Steps

Reach out to AEEE and CLASP to help you draft specifications tailored to your specific use case and ensure optimal performance, procurement clarity, and financing arrangements.

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