

DCR Mandate

*NDCR maybe used
for projects
commissioned
before
31st May 2026*

Non-DCR (NDCR) modules are prohibited for Grid-Tie and Open Access systems, including C&I projects from 1st June 2026

Project commissioning/metering must be finalized by May 31st; the application date is irrelevant.

Non-DCR modules are restricted solely to Off-Grid or BTM (Behind-the-Meter) setups after this deadline.

Government NM/ OA/ BTM projects where bidding is closed before 31/8/25 are exempt from ALMM list 2nd.

New ToD (Time of Day) Billing

Applies to: Non-Residential consumers above 10kW who applied after January 1st 2020

Day

9 AM – 5 PM

Can only offset consumption within the same 9 AM – 5 PM window.

Evening

5 PM – 12 AM

Can offset consumption at any time during the full 24-hour period.

Night

12 AM – 9 AM

Can offset consumption between 12:00 AM and 5:00 PM only. (except 5 PM to 12 AM)

Implemented from July 1st 2025 — with potential retrospective billing for the preceding 8 months.

Residential users must pay nearly ₹2 per unit to utilize solar energy during the night.

⚠️ Expected to cause financial strain for EMI-based solar owners due to concurrent EMI, bill and GSC costs.

Grid Support Charges (GSC)

Effective April 1st, 2026 | Applies to all consumers with sanctioned load exceeding 10kW

Replaces traditional banking charges with a fee on every unit of solar energy generated.

LT Consumers

₹1.96 ++

HT Consumers

₹1.48 ++

⚠️ Key Impact: Non-Residential consumers above 10kW lose the ability to use surplus daytime energy at night and must also pay the DISCOM nearly ₹2 per unit to export surplus energy to the grid which DISCOM get for free.

MYT ORDER - Changes in TOD & New GSC

- ***Possible Solutions for existing customers***
- ***How to quote to new customers?***
 - ***For all 10 kW + Non Residential Customers***

A Comprehensive Analysis of Solar Energy Management Strategies

*12 Solutions based on usage pattern / GSC Comparison /
Benefits & Drawbacks*

1 Shift Load

GSC: YES

⚙️ METHODOLOGY

- Night load shifted to day time

✓ BENEFITS – Eg. /Application

- 15% to 25% discounted tariff in first half & second half of the financial year respectively.
- Pumping storage water
- EV Charging
- Scheduling of heavy load during day time.
- Inverter Battery Charging
- Use full generation

✗ DRAWBACKS

- Additional infrastructure investment (Space, Electrical, Machinery etc.)
- Additional demand charges
- Not suitable for evening loads eg. Banquet Halls, Restaurants etc.

2 Inverter + Battery

GSC: YES

⚙️ METHODOLOGY

- Charge inverter battery during 09:00 AM to 05:00 PM
- Use battery power using change over for selected loads via normal inverters (Non Solar)

✓ BENEFITS – Eg. /Application

- Part of load can be shifted on inverters.
- Very heavy loads which operates for less periods can be entirely shifted in the day time OR run on grid at night time.

✗ DRAWBACKS

- Additional investment
- Maintenance
- Additional Demand Charges may apply.

3 Down Size

GSC: Reduced

⚙️ METHODOLOGY

- Reduce panels – Reduced generation
- Reduce Sanction load at some places.

✓ BENEFITS – Eg. /Application

- No additional investment in infrastructure, demand charge, battery etc.
- Reduction in GSC

✗ DRAWBACKS

- Reduced benefits from solar

4 Hybrid

GSC: YES

⚙️ METHODOLOGY

- Use in day + consume any time + export in Peak hours (if possible)

✓ BENEFITS – Eg. /Application

- 100% Utilization of PV installation
- Backup
- Can be used for peak shaving at some places.

✗ DRAWBACKS

- High Initial + Battery cost

5 Behind the meter

GSC: Zero

⚙️ METHODOLOGY

- Put zero export device and consume in day only.
- Additional electricity can be drawn from grid.

✓ BENEFITS – Eg. /Application

- Reduced paper work, No GSC.

✗ DRAWBACKS

- Surplus is wasted
- Phase balancing very necessary.

6 BTM + Inverter/Battery

GSC: Zero

⚙️ METHODOLOGY

- Configure inverter + battery smartly to consume.
- Surplus Generation can be utilised in both solar & Non solar hours.

✓ BENEFITS – Eg. /Application

- 100% utilization on investment + backup
- No need for grid. charging for battery, No GSC.
- Peak shaving

✗ DRAWBACKS

- Monitoring
- Maintenance

7 Off Grid System

GSC: Zero

⚙️ METHODOLOGY

- Stand alone – No Grid – install solar + Battery

✓ BENEFITS – Eg. /Application

- Full usage of installed capacity , No GSC.

✗ DRAWBACKS

- High initial cost
- Low Efficiency
- Maintenance
- Breakdown

8 Partial Grid + Off Grid

GSC: Zero

⚙️ METHODOLOGY

- Big off grid system coupled/ not coupled with smaller sanction grid.

✓ BENEFITS – Eg. /Application

- Grid is used as Back up especially for sensitive continuous loads.

✗ DRAWBACKS

- High initial cost
- Low Efficiency
- Maintenance

9 Off Grid + Generator

GSC: Zero

⚙️ METHODOLOGY

- Stand alone – No Grid – install solar + Battery
- And add generator as backup

✓ BENEFITS – Eg. /Application

- Full usage of installed capacity , No GSC
 - Redundancy due to generator

✗ DRAWBACKS

- High Initial Cost
- Low efficiency
- Maintenance

10 Only Inverter + Battery

GSC: Zero

⚙️ METHODOLOGY

- No Solar – Charge battery from grid during solar hours & consume after 05:00 PM using normal inverter.

✓ BENEFITS – Eg. /Application

- Less Investment, suitable for locations with almost no roof space.
- Use roof space for other purpose.
- Power backup in same investment.

✗ DRAWBACKS

- High Cost
- High Payback
- Maintenance

⚙️ METHODOLOGY

- For 100 kW Contract Demand Only
- Group captive for day time use

✓ BENEFITS – Eg./Application

- Less Investment, suitable for locations with almost no roof space.
- Ownership for solar panels
- Maybe beneficial for 10 kW + customers if new policy is implemented.

✗ DRAWBACKS

- Regulatory control
- Transmission charges + losses

12 Net Billing

GSC: YES

⚙️ METHODOLOGY

- Standard installation under Net Billing option

✓ BENEFITS – Eg./Application

- Minimum consumption during day & mostly in Non solar hours – get ₹2.82 per unit to offset your bill.
- Spare terrace, spare sanctioned solar.

✗ DRAWBACKS

- Very very long payback period due to GSC.
- Very limited scope.

SUMMARY

Sr.	Option	GSC	Methodology	Key Benefit
1	Shift Load	YES	Night Load shifted to day	15 to 25% discounted tariff
2	Inverter + Battery	YES	a. Charge inverter battery during of peak hours b. Use battery power using change over for selected loads	Shift loads to solar hours
3	Downsize DC	Reduced	Reduce panels - reduce generation	No extra infrastructure
4	Hybrid	YES	Use in day + consume & export in Peak hours	100% PV utilization + export
5	Behind The Meter	Zero	Put zero export and consume in day only	No GSC, simple setup
6	BTM + Off Grid	Zero	a. Configure inverter + battery smartly to consume b. Surplus generation	100% utilization, no GSC
7	Off Grid System	Zero	Stand alone - No Grid - install solar + Battery	Full capacity usage, no GSC
8	Patrial Grid + Off Grid	Zero	Big off grid system coupled/ not coupled with smaller sanction grid.	High initial cost , Low Efficiency, Maintenance
9	Off Grid + Generator	Zero	a. Stand alone - No Grid - install solar + Battery b. And add generator as backup	Redundancy + full usage
10	Only Inverter + Battery	Zero	No solar DC - Chage battery from grid during solar hours and consume in peak hours.	Less investment, no roof needed
11	GOA	Zero But other charges	a. For 100 Kw Contract Demand Only b. Group captive for day time use	Group ownership, low investment
12	Net Billing	YES	Standard installation under Net Billing option	Hardly any