

**Tamil Nadu Electricity Board  
Technical Branch**

144, Anna Salai ,  
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**Memo.No.CE/Comml/EE/DSM/AEE/PMM/F.Power cut/D.508/09,dt.25.11.09**

Sub: Electricity – R&C-Direction issued by TNERC in the Suo-Motu Proceedings No.1 of 2009, dt. 28.10.2009 – Fixation of quota for all Captive users including the Wind Energy Captive users – Instruction issued -Reg.

Ref:1. Memo.No.CE/Comml/EE/DSM/AEE/PMM/F.Powercut/D.001/08,  
dt.1.11.08  
2.Memo.No.CE/Comml/EE/DSM/AEE/PMM/F.Powercut/D.28/08,  
dt.17.11.08  
3. TNERC Suo-Motu Proceedings No.1 of 2009, dt. 28.10.2009.

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Pursuant to the Suo-Motu Proceedings issued by TNERC , the following instructions are issued :-

Circular Memo.No.CE/Comml/EE/DSM/AEE/PMM/F.Power cut/D.28/08, dt.17.11.08 is approved by TNERC .

Circular memo.No.CE/Comml/EE/DSM/AEE/PMM/F.Power cut/D.87/08, dt.19.12.2008, memo.No.CE/Comml/EE/ DSM/AEE/PMM/F. Power cut/D.348/08, dt. 4.8.2009 and memo.No.CE/Comml/EE/DSM/AEE/PMM/F. Power cut/D.359/08, dt.21.8.2009 are stand cancelled .

Based on the above, the quota to be fixed to all captive users including the wind energy captive users based on the circular memo.dt.17.11.08 only in three parts. First Part for the period from 1.11.2008 to 30.4.2009, second part for the period from 1.5.09 to 31.10.09 and the Third Part for the period from 1.11.2009 onwards.

**First Part from 1.11.2008 to 30.4.2009**

(1) The base energy consumption and base demand shall be computed for all captive users including the wind energy captive users on the basis of the formula contained in the TNEB Memo No.CE/ Comm/EE/DSM/AEE/PMM/F. Power Cut/D.001/08 dated 1-11-2008.

(2) For any demand sanctioned after 1-10-2008, the additional energy quota and demand energy quota shall be as per the formula prescribed by the TNEB in Memo No.CE/Comml/EE/DSM/F.Powercut/D.001/2008 dated 1-11-2008.

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(3) The demand and energy quota for the wind energy supplied after 1-11-2008 shall be fixed in accordance with the memo dated 17-11-2008 of TNEB.

(4) Wind energy banked as on 1-11-2008 shall be adjusted in five equal monthly installments between 1-12-2008 and 30-4-2009 and equivalent additional demand and additional energy quota should be allotted to them.

(5) Demand quota and energy quota after being redrawn in accordance with the above directions shall be set off against the actual demand and energy consumed between 1-11-2008 and 30-4-2009.

(6) Excess demand charges and excess energy charges for the period from 1-11-2008 to 30-4-2009 shall be computed with reference to the redrawn demand and energy quota.

**Ia ) Fixing of quota from 1.11.2008 to 30.4.2009:-**

The demand and energy quota for the wind energy supplied from 1-11-2008 to 30.11.08 shall be fixed in accordance with the memo dated 17-11-2008 and accordingly billed and excess energy and demand charges shall be levied.

**Fixing of Energy quota from 1.12.2008 to 30.4.2009:-**

- |       |   |   |         |              |
|-------|---|---|---------|--------------|
| (i)   | Monthly base energy consumption as illustrated<br>in working instructions dated 1.11.2008.                              | } | -       | A            |
| (ii)  | The energy supplied for captive use   | } | -       | B            |
|       | ( B is actual energy wheeled inclusive of all captive power on the<br>month +1/5 of the banked energy as on 1.11.2008 ) |   |         |              |
| (iii) | The actual energy availed by consumer<br>from TNEB  | } | A – B = | C            |
| (iv)  | 60% energy on C (C x 60% /100)  | = |         | D            |
| (v)   | The quota fixed for energy  | = |         | <b>B + D</b> |

(B, D should be shown separately without adding)

The above **B** shall not exceed **A** and shall be divided into two part as normal & peak hours for both actual energy wheeled inclusive of all captive power on the month + 1/5 of the banked energy.

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**Ib) Fixing of Demand quota from 1.12.2008 to 30.4.2009:-**

- |      |  |   |   |   |
|------|--|---|---|---|
| (i)  | The base demand consumption as illustrated<br>in working instructions dated 1.11.2008. | } | - | E |
| (ii) | The Demand supplied for captive use  | } | - | F |

Energy supplied by captive user in a month

$$F = \frac{\text{-----}}{\text{No. of days in the month} \times 24 \text{ hours} \times \text{P.F}}$$

( F is the actual demand wheeled inclusive of all captive power on the month +1/5 of the demand for banked energy as on 1.11.2008)

(iii) The actual demand supplied by TNEB }  $E - F = G$

(iv) 60% demand of G ( $G \times 60\% / 100$ )

(v) The demand quota fixed =  $H$   
=  $F + H$

(F, H should be shown separately without adding)

The above **F** shall not exceed **E** and shall be divided into two part as normal & peak hours for both actual demand wheeled inclusive of all captive power on the month and 1/5 of the demand for banked energy.

**Ic) Excess demand and energy charges should be levied for part one :-**

a. When normal hour recorded demand (minus) normal hour demand actually wheeled & demand for 1/5<sup>th</sup> of the banked energy (**F**) exceeds **H**, then excess demand charges shall be levied .

b. When peak hour recorded demand (minus) peak hour demand actually wheeled & 1/5<sup>th</sup> of the banked peak hour demand computed (**F**) exceeds peak hour **5% quota**, then excess demand charges shall be levied .

c. When normal hour recorded energy (minus) normal hour energy actually wheeled & 1/5<sup>th</sup> of the banked energy (**B**) exceeds **D**, then excess energy charges shall be levied.

d. When peak hour recorded energy (minus) peak hour energy actually wheeled & 1/5<sup>th</sup> of the banked peak hour energy (**B**) exceeds peak hour energy quota of **5% quota**, then excess energy charges shall be levied.

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(7) The High Court has directed that the banked energy to the credit of the wind energy generators as on 31-3-2009 shall not lapse. Accordingly, TNERC direct that any surplus banked energy remaining unadjusted on 30-4-2009 would be eligible for encashment.( **Instruction for this point will be issued separately by CE/NCES wing** ).

**Second Part from 1-5-2009 to 31-10-2009**

(8) For the period from 1-5-2009 to 31-10-2009, the formula for computation of energy quota and demand quota contained in the circular of TNEB dated 17-11-

2008 shall apply, that is, with effect from 1-5-2009 they are entitled to demand quota for current generation in accordance with the formula of 17-11-2008; if the energy quota and demand quota during this period has been exceeded by the captive user, he will be entitled to draw from the energy banked during this period to the extent of adjusting the excess demand and excess energy consumption.

(9) The excess demand charges and excess energy charges for the period from 1-5-2009 to 31-10-2009 shall be determined with reference to the demand and energy quota calculated in accordance with para (8) above.

**IIa )Fixing of Energy quota from 1-5-2009 to 31-10-2009:-**

- (i) Monthly base energy consumption as illustrated }  
in working instructions dated 1.11.2008. } - A
- (ii) The energy supplied for captive use } - B  
( B is actual energy wheeled inclusive of all captive  
power on the month)
- (iii) The actual energy availed by consumer from TNEB } A – B = C
- (iv) 60%, 70% & 80% energy on C (C x 60%, 70% & 80% /100) = D
- (v) The quota fixed for energy = **B + D**

(B, D should be shown separately without adding)

The above **B** shall not exceed **A** and shall be divided into two part as normal & peak hours for the energy already wheeled.

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**IIb) Fixing of Demand quota from 1-5-2009 to 31-10-2009:-**

- (i) The base demand consumption as illustrated }  
in working instructions dated 1.11.2008. } - E
- (ii) The Demand supplied for captive use } - F

$$F = \frac{\text{Energy supplied by captive user in a month}}{\text{No. of days in the month} \times 24 \text{ hours} \times \text{P.F}}$$

( F is actual demand for the energy wheeled inclusive of all captive powers on the month)

(iii) The actual demand supplied by TNEB }  $E - F = G$

(iv) 60%, 70% & 80% demand of G ( $G \times 60\%, 70\% \& 80\% / 100$ ) = H

(v) The demand quota fixed = **F + H**

(F, H should be shown separately without adding)

The above **F** shall not exceed **E** and shall be divided into two part as normal & peak hours for the demand already wheeled

**IIc) Excess demand and energy charges should be levied for part 2 :-**

a. When normal hour recorded demand (minus) normal hour demand wheeled (**F**) exceeds **H**, then adjust the demand computed for normal hours banked energy to the extent of adjusting the excess demand if available. Even after adjustment, if there is balance, then excess demand charge shall be levied .

b. When peak hour recorded demand (minus) peak hour demand wheeled (**F**) exceeds peak hour **5% quota**, then adjust the demand computed for peak hour banked energy to the extent of adjusting the excess demand if available. Even after adjustment , if there is balance, then excess demand charges shall be levied .

c. When recorded energy for the normal hours (minus) energy wheeled for the normal hours (**B**) exceeds **D**, then adjust the normal hours banked energy to the extent of adjusting the excess energy if available , Even after adjustment , if there is balance, then excess energy charges shall be levied.

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d. When peak hour recorded energy (minus) peak hour energy wheeled (**B**) exceeds peak hour energy quota of **5% quota**, then adjust the peak hour banked energy to the extent of adjusting the excess energy if available , Even after adjustment , if there is balance, then excess energy charges shall be levied

**Third Part from 1.11.2009 onwards:-**

(10) For the future, from 1-11-2009 the base demand and base energy may continue to be fixed with reference to the formula laid down by TNEB in their memo dated 1-11-2008.

(11) Unutilised banked energy available as on 1-11-2009 may be utilized by the wind captive users in five equal monthly installments from 1- 11-2009 upto 31-3-2010 in addition to current generation of that month.

(12) The energy which remains in the bank of wind energy generators as on 1-11-2009 after adjustment in accordance with para (8) above, shall be available for consumption of the wind energy captive user between 1-11-2009 and 31-3-2010 in five equal monthly installments. In addition, current generation would also be

eligible for additional energy and additional demand quota; both current generation as well as the energy drawn from the bank would count for computation of equivalent demand.

***(13) From 1-11-2009, all captive users, whether thermal or wind, shall declare on the first day of every month, the energy proposed for captive use for the following month, which shall be considered as B and F for the purpose of energy quota and demand quota respectively in terms of the memo of TNEB dated 17-11-2008; the energy so declared shall roughly be the monthly average generation.***

***(14) From 1-11-2009, peak hour current generation as well as peak hour banked energy shall be eligible for peak hour utilization every month subject to the limit of one-twelfth of annual peak hour generation.***

(15) Energy which remains unutilized as on 31-3-2010 shall be eligible for encashment(**Instruction for this point will be issued separately by CE/NCES** ).

### **IIIa) Fixing of Energy quota from 1.11.2009 onwards:-**

- (i) Monthly base energy consumption as illustrated }  
in working instructions dated 1.11.2008. } - A

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- (ii) The energy proposed for captive use for the  
following month as per the direction of TNERC vide  
Para No.13 & 14 of Suo –motu proceedings  
dt.28.10.09 } - B

**B** is 1/5 of the banked energy available as on 1.11.09 shall be added for the period from 1.11.09 to 31.3.2010 + current generation to be wheeled inclusive of all captive powers (Roughly monthly average Generation as declared by the consumer at the 1<sup>st</sup> day of every month for the following month)

- (iii) The actual energy to be availed by consumer  
from TNEB } A – B = C
- (iv) 80% energy on C (C x 80/100) = D
- (v) The quota fixed for energy = **B + D**

(B, D should be shown separately without adding)

The above **B** shall not exceed **A** and shall be divided into two part as normal & peak hours for the energy to be wheeled.

( For peak hour , from 1-11-2009, peak hour current generation as well as peak hour banked energy shall be eligible for peak hour utilization every month subject to the limit of one-twelfth of annual peak hour generation).

**IIIb) Fixing of Demand quota from 1.11.2009 onwards:-**

- (i) The base demand consumption as illustrated}  
in working instructions dated 1.11.2008. } - E
- (ii) The demand proposed for captive user for the  
following month as per the direction of TNERC vide  
Para No.13 & 14 of Suo –motu proceedings  
dt.28.10.09 } - F

$$F = \frac{\text{Energy supplied by captive user in a month}}{\text{No. of days in the month} \times 24 \text{ hours} \times P.F}$$

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**F** is 1/5 of the banked energy demand available as on 1.11.09 shall be added for the period from 1.11.09 to 31.3.2010 + demand for the current generation to be wheeled inclusive of all captive powers as given by the consumer at the 1<sup>st</sup> day every month for the following month

- (iii) The actual demand to be supplied by TNEB }  $E - F = G$
- (iv) 80% demand of G ( $G \times 80/100$ ) = H
- (v) The demand quota fixed = **F + H**

(F, H should be shown separately without adding)

The above **F** shall not exceed **E** and shall be divided into two part as normal & peak hours for the demand to be wheeled.

For peak hours, from 1-11-2009, peak hour demand current generation as well as peak hour banked energy demand shall be eligible for peak hour utilization every month subject to the limit of one-twelfth of annual peak hour generation .

**IIIC) Excess demand and energy charges should be levied for part 3 :-**

a. When normal hour recorded demand (minus) normal hour demand actually supplied and demand for 1/5 of the banked energy (for the period from 1.11.09 to 31.3.2010) exceeds **H**, then excess demand charges shall be levied.(Demand actually supplied means the consumer actually supplied demand in the already declared quantum in **F**). F is 1/5<sup>th</sup> of banked energy and energy already declared by the consumers for the month which shall not exceed **E**.

b. When peak hour recorded demand (minus) peak hour demand actually supplied and demand for 1/5 of the peak hour banked energy (for the period from 1.11.09 to 31.3.2010) exceeds peak hour quota of **5%**, then excess demand charges shall be levied. (Demand actually supplied means the consumer actually supplied demand in the peak hour already declared quantum in **F**) **F** is 1/5<sup>th</sup> of banked energy and energy already declared by the consumers for the month which shall not exceed **E**( peak hour)

c. When normal hour recorded energy (minus) normal hour energy actually supplied within the proposed quantum and 1/5 of the banked energy (for the period from 1.11.09 to 31.3.2010) exceeds **D**, then excess energy charges shall be levied.(Energy actually supplied means the consumer actually supplied energy for the month in the already declared quantum in **B**) **B** is 1/5<sup>th</sup> of banked energy and energy already declared by the consumers for the month which shall not exceed **A**)

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d. When peak hour recorded energy (minus) peak hour energy actually supplied within the proposed quantum and 1/5 of the peak hour banked energy (for the period from 1.11.09 to 31.3.2010) exceeds peak hour energy quota of **5%**, then excess energy charges shall be levied. (Energy actually supplied means the consumer actually supplied energy in the peak hour as already proposed and declared in **B**) **B** is 1/5<sup>th</sup> of banked energy and energy already declared by the consumers for the month which shall not exceed **A** ( peak hour )

(16) If a consumer opts out of wheeling agreement and becomes an ordinary consumer, **A** and **E** referred in the memo dated 17-11-2008 shall be deemed to be the base energy and base demand. In that case, the consumer is eligible only for 5% of the demand and energy quota during peak hours.

For the above case consumers, **B and F** are zero, the quota shall be fixed on **A & E**

Based on the above procedure, quota may be fixed for the past /future periods to the consumers as per the eligible percentage of quota of 60%, 70% & 80% prevailed for the respective periods of past and future in super-session to earlier memos. dt.19.12.08, dt.4.8.09 & dt.21.8.09.

The consumer shall not exceed demand/energy quota fixed for the TNEB power for any reasons, either due to outage of generator of their supplier or short supply from their supplier, etc., it is their responsibility to monitor this with their generator. The excess demand and energy charges shall be collected as prescribed by TNERC for the quota violated.

For the above procedure, the detailed billing and working procedure will be evolved and communicated by the CFC/Revenue for calculation



For Para No. 7 & 15, regarding payment for banked energy of Suo – Motu proceedings No.1, dt.28.10.2009 of TNERC, separate instruction from CE/NCES will be issued .

**(By order of Chairman )**

( V.NALENDRAN)  
CHIEF ENGINEER/ COMMERCIAL