INSTITUTE *for* ENERGY STUDIES
ANNA UNIVERSITY, CHENNAI - 25

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10/03/2023

To
The Chief Engineer
IC, R&D and Demand Side Management/TANGEDCO
4th Floor, Eastern Wing,144, Anna Salai, Chennai 600 002

Sir/Madam,

References is invited to

1 Communication vide Lr.No. CE / IC, R&D and DSM / SE / DVSM / EE / DSM / AEE2 / F SECF / D.251 / 22 dated 22/08/2022 and

2 Our personal discussion on 03/01/2023

As discussed, we carried out a detailed study towards identifying "techno-economically feasible" energy conservation measures in our campus. Avenues identified for energy conservation are summarised below:

(i) Replacement of conventional electric heaters with centralised heat pump based systems at our NRI Hostels (288 heaters of each 2kW/3kW rating)

(ii) Replacement of conventional electric heaters with solar water heaters at our EC Hostels (156 heaters of 2kW rating)

The connected load from electric water heaters alone accounts to about 1 MW!

(iii) Replacement of existing inefficient air conditioners with energy efficient ones (star rated)

Based on the collected questionnaire, 922 air conditioners had been installed in CEG, MIT and AC Tech campus of Anna University. About 80% of these installed air conditioners are non-star rated / rated with <3 star!

(iv) Replacement of conventional fans with energy efficient BLDC fans (in areas of higher operating hours) and

(v) Replacement of conventional tube lights with energy efficient LED luminaries (in areas of higher operating hours)

It is also appropriate to mention that we are in the process of establishing an "Energy Cell" exclusively for carrying out Energy Audit for all the campuses of Anna University, in a phased manner.

With the above background, it is requested to allocate ₹ 1.86 crore (Rupees one crore and eighty six lakhs only) for implementation of above identified energy conservation measures in Anna University under SECF.

10/3/23

DIRECTOR-IES

Copy to: (1) The Estate Officer, AU (2) PA to The Registrar, AU (3) PS to The VC, AU