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भारत सरकार/ Government of India

नवीन और नवीकरणीय ऊर्जा मंत्रालय / Ministry of New &amp; Renewable Energy

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Block No.14, CGO Complex, Lodi Road,  
New Delhi-03, Dated 03 June, 2019

To,

- (1) Principal Secretaries/Secretaries of states (All SNAs),
- (2) Solar Associations of all states.

**Subject: Effective usage of water in Solar Power Projects-reg.**

Sir/Madam,

As you are aware that the problem of acute water shortage in many States is reported from time to time. The Ministry has felt that excess water usage for cleaning of solar panels in Solar Power Projects exist in various States. Since, most of the Solar Power Projects are undertaken by private developers, who take into account the availability of different resources including water availability and transmission issues etc. and also seek various permissions including ground/ canal water usage from Authorities concerned so as to make their projects financially viable. The excess usage of water, sometimes, leads to wastage of precious resource and it can be avoided through judicious usage. It is therefore felt that minimal usage of water is done in Solar Panel Cleanings. There are different technologies available for cleaning of solar panels through robotic cleaning, foam cleaning (dry cleaning) etc.

2. The use of robotic cleaning and anti-soiling coating technology on panels is among other emerging technologies e.g. hydrophobic, nano-technology-based self cleaning modules etc. in this regard.

3. In view of above, you are requested to initiate steps for optimal utilization of water for cleaning of Solar Panel and its judicious usage and to preferably use Robotic Technology for cleaning of modules so that water may be used as less as possible for cleaning of solar panels.

Yours faithfully



(Dilip Nigam)

Scientist "G", MNRE

Copy for information:

1. Sr. PPS to Secretary, MNRE
2. Sr. PPS to JS (Solar)
3. PS to Sh. Dilip Nigam , Scientist G
4. PA to KSK(DS)