



# Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)

Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

## Institute's Powerhouses for Energy Conservation

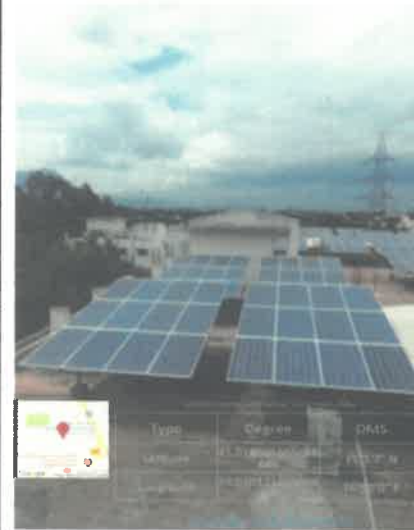
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# On Grid Solar power plants for green energy

On grid solar power panels installed in five different locales of the campuses have the capacity to generate 330 KWp power which can contribute considerably to reduce EB consumption bills.

| Phase              | Location    | Total capacity | On grid -Locale with PV modules   | String Inverters  |
|--------------------|-------------|----------------|---|-------------------|
| I                  | Main Campus | 100KWp         | Library -240 modules – 60KWp<br>Administration block- 160 modules – 40KWp     | Five - 20KWp each |
| II                 | Main Campus | 100KWp         | Home Science block- 336 modules-300Wp   | Four 25KW         |
|                    |             | 50KWp          | Administrative block- 76 modules<br>Research block – 78 modules (total 325Wp) | Two 25KW each     |
| III                | Campus 2    | 10KWp          | Library building  | ---               |
| IV                 | Campus 2    | 50KWp          | Education block- 154 modules – 325W   | One 50 KW         |
| SOLAR WATER HEATER |             |                |   |                   |
| V                  | Campus 2    | 500 LPD        | HOSTEL BUILDING   |                   |



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# Biogas plants for Solid waste recycling



- There are three bio-digesters, fed with food waste from hostel mess, one in main campus and two in Satellite campus.
- During peak use (before pandemic) biogas generated enabled reducing commercial gas consumption up to three commercial cylinders in toto.
- Not only are they energy savers, but also lend well to recycle degradable solid wastes from the mess



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# Sensor based Devices for energy conservation



The Video wall in the auditorium is a smart energy saving installation up to 85W with star rating 6.



Two Air conditioning units installed in Artificial Intelligence lab are energy efficient wherein sensors respond to occupancy and reduce load automatically

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# Switchover to LED bulbs - an energy saving measure

- To comply with Government stipulations the Institute has switched over to use of LED lighting as an ardent energy saving measure.
- This practice apart from being long lasting also helps to reduce wastes accumulating from used bulbs/tubes and their disposal issues.
- The institute has installed LED bulbs/tubes in both the campuses



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# LED LIGHTS – LOAD DETAILS

| BLOCK                     | CFL<br>20W | TUBE,<br>BULB<br>40W | LED<br>TUBE<br>20W | LED<br>BULB/<br>SQUARE<br>SMALL<br>10W | LED<br>SQUARE<br>MEDIU<br>M 20W | LED<br>SQUARE<br>LARGE<br>40W | LED<br>50W | LED<br>10W | LED<br>BULB<br>9W | SODIU<br>M<br>250W | CFL<br>LAMP<br>100W | TOTAL |
|---------------------------|------------|----------------------|--------------------|--|---------------------------------|-------------------------------|------------|------------|-------------------|--------------------|---------------------|-------|
| Admin<br>Block            | 40         | 0                    | 257                | 91                                     | 88                              | 12                            |            | 6          |                   |                    |                     |       |
| Home<br>Scienc<br>e Block | 0          | 3                    | 532                | 0                                      | 24                              | 0                             |            |            |                   | 4                  |                     |       |
| Library<br>Block          | 19         | 23                   | 266                | 10                                     | 0                               | 74                            |            |            |                   |                    |                     |       |
| Appan<br>Arul<br>Block    | 0          | 8                    | 313                | 0                                      | 7                               | 0                             |            |            |                   |                    |                     |       |
| Annai<br>Arul<br>Block    | 0          | 0                    | 237                | 1                                      | 0                               | 0                             |            |            |                   |                    |                     |       |
| Resear<br>ch<br>Block     | 0          | 8                    | 111                | 27                                     | 9                               | 2                             |            |            |                   |                    |                     |       |
| AUDIT<br>ORIUM            | 65         | 1                    | 160                | 12                                     | 59                              | 54                            |            |            |                   |                    |                     |       |
| FO<br>OFFICE              | 0          | 4                    | 18                 | 0                                      | 17                              | 18                            |            |            |                   |                    |                     |       |

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|                                  |       |       |         |       |       |        |       |       |       |       |       |       |
|----------------------------------|-------|-------|---------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| CNR RAO LAB                      | 0     | 0     | 0       | 8     | 48    | 1      |       |       |       |       |       |       |
| OTHER STREET LIGHT               |       | 5     |         |       | 64    | 22     | 31    | 16    | 38    | 10    | 10    |       |
| Total Light Nos                  | 124   | 52    | 1894    | 149   | 316   | 183    | 31    | 22    | 38    | 14    | 10    | 2868  |
| Total Lighting Load              | 2480  | 2080  | 37880   | 1490  | 6320  | 7320   | 1550  | 220   | 342   | 3500  | 1000  | 69882 |
|                                  | 3.55% | 2.98% | 54.21%  | 2.13% | 9.04% | 10.47% | 2.22% | 0.31% | 0.49% | 5.01% | 1.43% |       |
| Consumed units per hour          |       |       | 69.882  | Units |       |        |       |       |       |       |       |       |
| Consumed units per day (8 Hours) |       |       | 559.056 | Units |       |        |       |       |       |       |       |       |

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# Power saving equipments – Act of social responsibility



- Prudence in selection and purchase of power saving equipments is a social responsibility.
- All equipments like AC units, printers and refrigerators purchased for use in laboratories carry star rating and power saving tags.

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# OTHER ALTERNATE ENERGY SOURCES



The Wind turbine at the roof of Library Block in the main campus is a source of wind energy which generates 1 KW energy. This is one of the alternate energy source adopted by the institution.

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