



POLICY ON GREEN CAMPUS



SMU SIKKIM
MANIPAL
UNIVERSITY

Sikkim Manipal University

5th Mile, Tadong, East Sikkim

Sikkim 737136



SIKKIM MANIPAL UNIVERSITY

POLICY ON GREEN CAMPUS

A green campus is a place where environment friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solution to environment, social and economic needs of the mankind

Sikkim Manipal University always had sustainable initiatives at the core of all activities. Sikkim Manipal University has two campuses, Engineering college (SMIT) campus and Medical college (SMIMS) campus. SMIT campus is spread over 34.34 acres where as SMIMS campus has 21.48 acres. Both the campuses have significant greenery covering all parts of campus, something that is appreciated by all visitors on campus

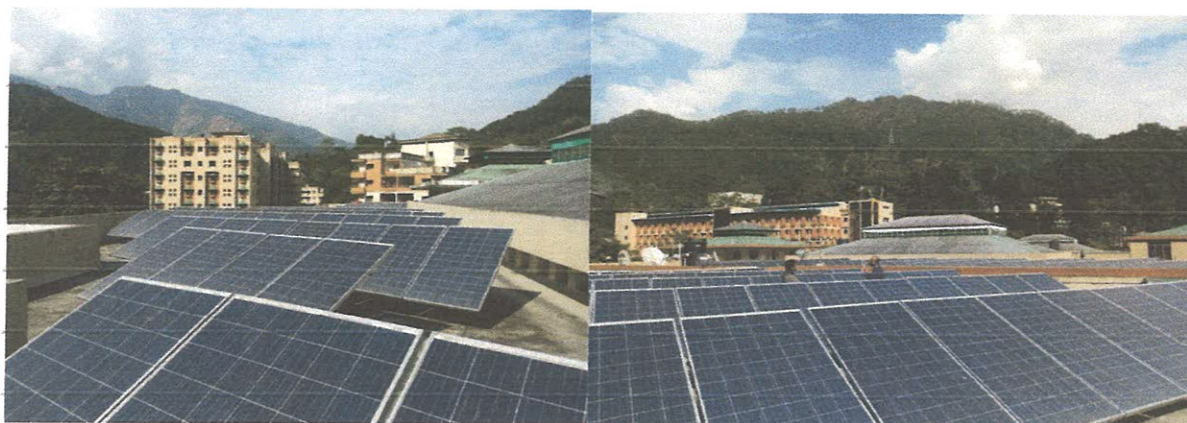
Policies:

- **To increase use of renewable energy (Solar Energy)**
- **To proper waste water management and recycling of waste water for re use**
- **To replace all conventional/normal lights with LED lights in phased manner.**
- **To use energy saving electrical and electronic alliances and energy saving tips in all our activities.**
- **To educate all employees on energy saving and water saving through lecture, dramas and painting competitions.**
- **To undertake tree plantation drive**
- **To count and control CO₂ emission generated by means of transportation, DG Sets and Incinerator and increase carbon neutrality.**
- **To ensure Ban on Single Use of Plastic inside the campus.**
- **To ensure NO Smoking inside the campus.**
- **To provide information and training opportunities on energy saving measures.**
- **To increase use of Digital library/E- Learning Centre.**
- **To promote and increase use of e-mail, video conferencing and minimum use of paper in official works.**
- **To ensure proper E-Waste management.**
- **To engage in dialogue with local government agencies, municipal corporation and local organizations and actively work in the areas of environment protection, energy efficiency and sustainable development.**
- **To encourage use of advance technology to minimize energy consumption.**
- **To ensure availability of necessary resources to achieve our objectives.**



Initiatives taken by university/Institute to make campus green and eco-friendly

Solar Power Station: One 100 KW solar power station has been installed at SMIT and connected with main line. Its efficiency is about 60%.



SOLAR POWER STATION AT SMIT

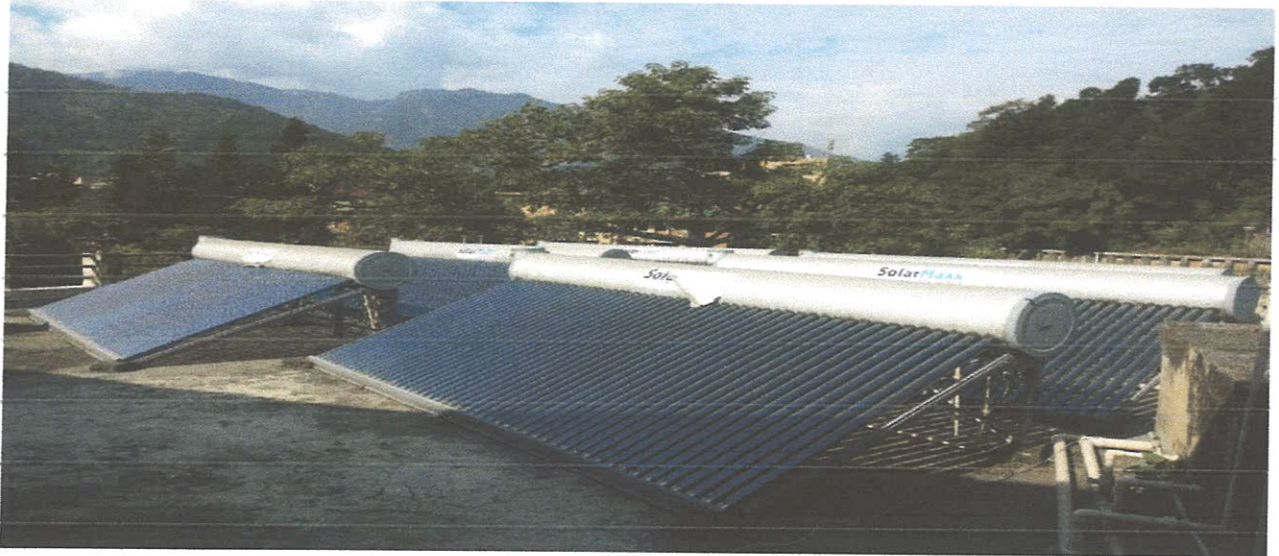
Solar Water Heaters: Both campuses use renewable energy and have installed solar water heater in their campuses.

At SMIT campus, hot water supply is done through solar water heaters installed on the terraces of hostels. The details are shown below:

(a) Hostel No 1	-	30,000 LPD	
(b) Hostel No 2	-	30,000 LPD	
(c) Hostel No 3	-	10,000 LPD	
(d) Hostel No 4	-	16,000 LPD	
(e) Boys Mess	-	4,000 LPD] for washing of utensils.
(f) Girls Mess	-	2,000 LPD	

At SMIMS campus we have 5000 LPD Solar Water Heater for the supply of hot water to CRH laundry for washing clothes.



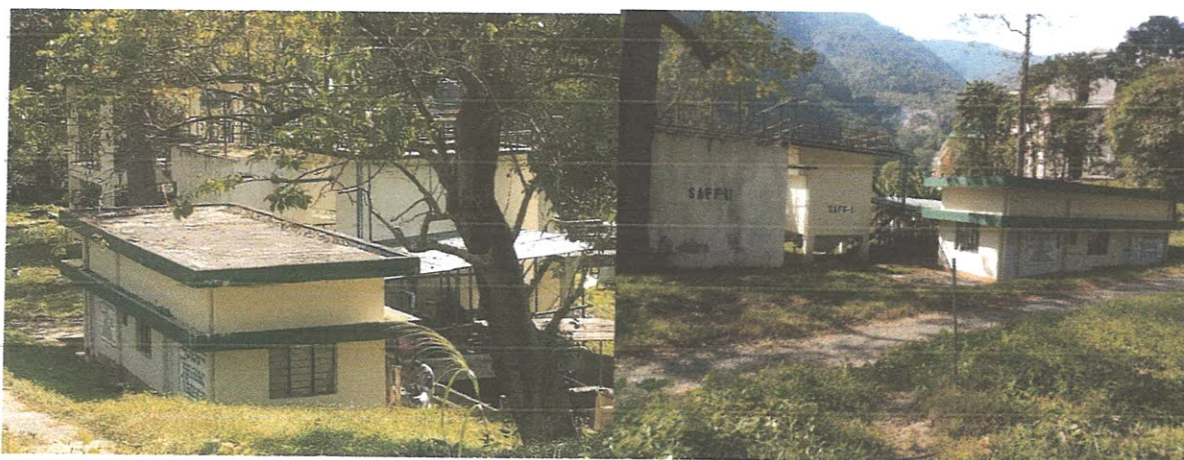


SOLAR WATER HEATERS AT SMIT CAMPUS

Waste water Management and Recycling of treated water

SMIT Campus - One 480 KLD STP is there for treatment of sewage generated from the campus. Arrangement have been made to recycle a portion of the treated water to be used for gardening purposes.





Glimpse of 480 KLD STP at SMIT

SMIMS Campus- One 15 KLD ETP is there for treatment of bio medical waste generated from CRH. Arrangement have been made to recycle the treated water to be used for gardening purposes.



Glimpse of 15 KLD ETP at CRH (SMIMS Campus)

Policy Guidelines and Measures taken for Conservation of Electricity

- Phased manner changing of normal/conventional lights to energy efficient LED lights. In SMIMS campus approximately 75% of conventional lights have been replaced with LED lights. In SMIT campus approximately 65% lights have been replaced with LED Lights. All new lights procured will be LED Lights only.
- Timely switching off and switching on of security lights and street lights.
- Hostel staff advised to ensure minimum essential use of lights. Put off light when not required.



- Security staff to switch off unnecessary light in office area and Library.
- Few of the Halogen lamps have been disconnected, however minimum illumination of light has been insured.
- Optimum use of HAVC and air conditioners. Switch on as and when required basis.
- Minimum use of Blowers and Heaters.
- Turn off unnecessary lights and use day light instead.
- Keep lights off in conference rooms, class rooms, lecture halls when they are not in use.
- Phased manner replacement of Electrical appliances like ACs, Fridge, Washing Machine etc with Energy efficient (Higher Star rating) appliances.
- Activate power management features on your computer and monitor, so that it will go into a low power “sleep” mode when you are not working on it.

Policy Guidelines and Measures taken for Conservation of Water

- Maximum use Surface water tapped from River/ Khola/ stream.
- Minimum use of ground water by reduced hours of pumping.
- Regular checking of leakage in water pipe line and Tap /cistern at common places
- Quarterly conduct of house survey for checking of Dripping / leakage from Taps and Cistern.
- Save water and save electricity stickers Placed at prominent places and bathrooms etc.
- Any New Building constructed should have the provisions of rain water harvesting.
- Adherence/implementation of the guidelines on “Jal Shakti Campus” a water conservation action and implementation plan issued by Department of Higher Education, Ministry of HRD, Govt of India.
- Conduct of awareness campaign on “Save Water, Save life” through lectures/ demonstrations/ Poster competitions.
- Tree plantation drive in the campuses.



Ban on use of plastic

Use of single use plastic and polythenes are banned in the campus. Suitable posters and banners in this regards have been placed.

Digital Library/ E- Learning Centre

Efforts have been made to provide more read out materials in soft form. Reduce hard readout material. Use more of e-mail for official communication. Information needed are provided on line.

(a) Digital/E- Library Facility at SMIMS Campus

- (i)E-Books - 256
- (ii)E- Journals-194
- (iii) CD -1010 (Free with Books)
- (iv) DVD- 111

(b) Digital/E-Library facility at SMIT Campus

Digital Library in SMIT started in Year 2008. Digital Library has 10 computers including Laptops with the seating capacity of 26 users at a time. At present, SMIT Library is accessible 24*7 through the Knimbus e-library portal from any place. The following E-Resources can be accessed through Digital Library: -

- (i)Elsevier Science Direct (Engineering & computer Science)
No. of Titles:275
- (ii)IEEE (All Society Periodicals Package)
No. of Titles:169
- (iii) Springer Link (Engg, Computer Sc, Math & Statistic)
No. of Titles:452, e-books:534
- (iv)ASCE (American Society of Civil Engineers)
No. of Titles:34
- (v) IGI Global Journals (Marketing Package)
No. of Titles:78
- (vi) ASME (American Society of Mechanical Engg.)
No. of Titles:26
- (vii) Videeya E- Book (Multiple Publishers)
No. of Titles: 47 (Text Books)
- (viii) DELNET (Developing Library Network)



(ix) Sage (Management)

No. of Titles:23

(x) Knimbus e- library

Remote Access Platform

(xi) Dspace –Institutional Digital Repository

(xii) Easylib Software Web Version

(xiii) Pearson E- Books

No. of Titles:15

(xiv) CD/DVD:1297

There is plan to add following e- resources in Digital Library:-

(i)Ph.D. Theses

(ii)Faculties Publications

(iii) Content Management

E-Waste Management

Electronic waste, commonly known as e-scrap or e-waste is the trash generated from surplus, broken and obsolete electronic devices such as computers, laptops, printers and other accessories. Electronic devices/appliances contain various hazardous chemicals and materials that are released into the environment, if not dispose them off properly.

It will be ensured by IT Dept of SMU that all E-Waste are properly disposed off as per E-Waste management policy of SMU

Carbon Neutrality

All efforts are made to minimise the release of CO₂ through use of solar water heaters in major establishments of institute. Smoking is banned in academic zone of the institute

A continuous drive is on through plantations and horticulture activities to keep the campus green. Smoke test of Vehicles and DG sets are carried out at required intervals.

Restricted entry to automobiles inside the campus for a pollution free environment.

Plantation

(a) SMIT Campus

i) Different clubs and student forums within institute periodically organized plantation drive to make the campus greener and carbon neutralized.

ii) Fruit trees like mango, jackfruit, guava and litchi are planted all over the campus.

Decorative plants like algeria, Chinese palm, bottle palm, bottle brush etc. are planted in the



campus for beautification. Trees like Ashoka, Neem, Peepal, Simal etc. are planted on the sides of the road.

iii) Buildings and sidewalks inside the campus are well hedged with bamboos. Various decorative and flowering plants grown in lawns and sidewalks.

iv) Teak plantations was done in 2006 near hostel number 3 (Girls Hostel). At present nearly 200 full grown trees are surviving.





Glimpse of Plantation at SMIT Campus

(b) SMIMS Campus

(i) The plantation has been started since April 1997.

(ii) Trees are Pine, Chinese teak, Silver oak, Wild chery, Rudraks, Gulmohar, Bottle brush, Jakranta, Auricheria, Chukrasia, Siris, Malata, Chilaunay Pani saaj which are approximately 600 in numbers.

(iii) Decorative bush plants like Azalea planted below staff housing.



Glimpse of Plantation at SMIMS Campus



Environment/Green Committee

Committee will ensure the implementation of Green Campus policies.

Composition of the committee at SMIT is as under: -

- (a) Chair Person- Prof (Dr.) Sangeeta Jha, Associate Director (A) –In-charge
- (b) Faculty Representatives/Members
 - (i) Mrs Tshering Yanki Ladakhi, Asst Prof Member Dept of ME
 - (ii) Mr. Sanjay Ghatak, Asst Prof (SG) , Member ,Dept of CSE
 - (iii) Dr. Santanu Gupta, Asst Prof (SG) ,Member,Deptt of Chemistry
 - (iv) Miss Naiwrita Borah, Asst Prof , Member, Deptt of IT
 - (v) Col Manoj Kumar (Retd), Head Engg , Member Deptt of S&M
 - (vi) Mr. Sisir Pradhan, Dy Manager (T), Member ,Deptt of S&M
- (c) Students Representative/Members
 - (i) Amrit Sukla , Regd No. 201900041, Deptt of CSE
 - (ii) Shruti Raj, Regd No 201900392, Deptt of CSE
 - (iii) Devanshi Pandey, Regd No. 201900406, Deptt of CSE
 - (iv) Mokshada Tiwary, Regd No. 201900148, Deptt of IT
 - (v) Shreya Shree, Regd No. 201900278, Deptt of IT
 - (vi) Yalamanchili Adi Venkata Sandeep, Regd No. 201900366, Deptt of ME
 - (vii) Iadhi Surya Kiran, Regd No. 201900429, Deptt of ME.

Composition of the committee at SMIMS is as under: -

- (a) Chair Person: Dr. Jyotsna Kapil, Prof ,Deptt of Microbiology
- (b) Faculty Representatives/Members
 - (i) Dr. Ena Pradhan, Tutor, Deptt of Pharmacology
 - (ii) Dr. T Paras Singh, Lecturer, Deptt of Biochemistry
 - (iii) Dr. Deepanjali Rai PT, Asst. Prof, SMCPT
 - (iv) Mrs Nazung Lepcha, Asst Lecturer, SMCON
 - (v) Mr. Sanjay Gupta, Sr. Manager, Infra & Facilities
 - (vi) Mr. I.D Gurung, Sr. Section Officer
- (c) Student Representatives/Members:
 - (i) Shivam Bansal, MBBS2017 batch
 - (ii) Harsh Jyoti Datta, MBBS 2018 batch
 - (iii) Arundhati Dutta, MBBS 2019 batch
 - (iv) Simran Sherpa BPT 2020 batch
 - (v) Serina Gurung BPT 2020batch



