Low-Carbon Energy Tracking

The low carbon energy calculation helps to identify the measures that can be used to enhance energy efficiency and renewable energy generation. The University of Poonch Rawalakot (UPR) has a wide no. of tools and techniques to monitor total energy use and its efficiency. University is using smart meters, and energy saving electricity implements in both summer and winter.

Apart from establishing objectives for reducing carbon emissions, the university can also analyze energy consumption statistics to monitor its progress towards specific carbon reduction targets, such as transportation or buildings.

By putting in place green procurement procedure and obtaining renewable energy from nearby or regional suppliers, universities can also check the amount of low-carbon energy they consume. This may imply investing in on-site renewable energy generation, such as solar or wind turbines, or buying renewable energy certificates (RECs).

In addition to tracking low-carbon energy use, **UPR is engage in energy conservation and behavior change initiatives to reduce energy consumption across the campus.** This involves promoting energy-saving behaviors among students and staff, such as turning off lights and electronics when not in use and implementing energy-efficient technologies and practices in buildings and transportation systems.

Hydroelectric Power: UPR's Key Energy Source

In UPR the smart LED bulbs are used in buildings. The University of Poonch utilizes hydroelectricity (100 %) as its primary energy source, resulting in lower carbon emissions. Hydropower is recognized for its minimal carbon footprint, emitting about 24 grams of carbon dioxide (CO_2) per kilowatt-hour (kWh) produced during its life cycle. Despite its contribution to combating climate change and its various environmental benefits, it's crucial to recognize that hydropower still involves some level of greenhouse gas emissions.

Completed Hydropower Projects in Azad Jammu and Kashmir

The completed projects of Azad Jammu and Kashmir that generate hydropower electricity are given at link:

https://www.ajkpdo.gok.pk/home/completed-projects/

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AJK POWER DEVELOPMENT ORGANIZATION

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Completed Projects

COMMISSIONED / OPERATIONAL PROJECTS

Sr. #	Power Stations	Cap. (MW)	Investment Cost (M. Rs.)	Year of Completion	Status
1	Kundal Shahi	2.00	100.00	1997	Isolation mode
2	Kathai	3.20	150.00	1998	—
3	Leepa	1.60	102.00	1999	—
4	Jagran-1	30.40	3800.00	2000	Grid Mode
5	Changan	0.05	1.00	2008	Isolation mode
6	Sharian	3.20	400.00	2011	—
7	Halmat	0.32	32.00	2013	—
8	Ranger-I	0.60	69.00	2013	—

Screenshot of Completed Hydropower Projects in Azad Jammu and Kashmir
Generating Electricity Sustainably