

Professor R. ARUN PRASATH
Head of the Department
Email: raprasath@pondiuni.ac.in
head.get@pondiuni.ac.in
Office: +91-413-2654 606/431
Mobile: +91-9487769611

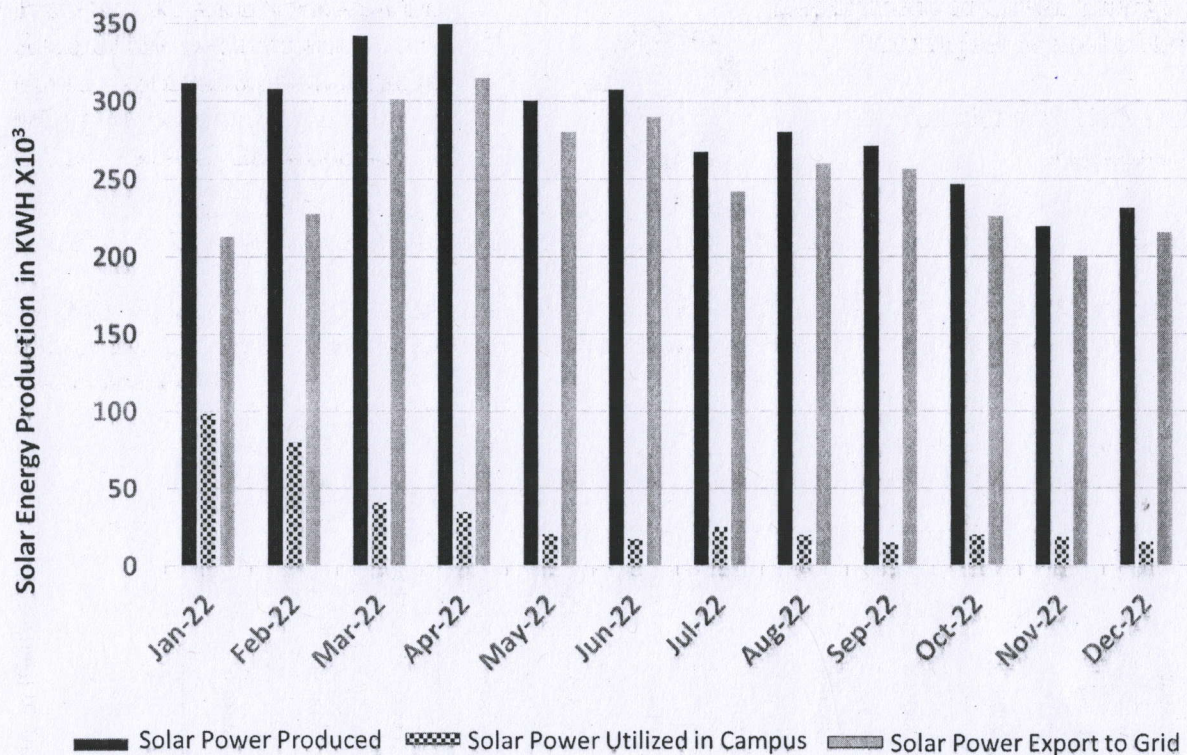


Department of Green Energy Technology
Madanjeet School of Green Energy
Technologies
Pondicherry University, Kalapet
Puducherry - 605 014

PU/GET/AP/Solar Power Generated-Utilized-Exported in 2022

25-10-2023

The Solar Power produced, utilized and exported at Pondicherry University Main Campus for January 2022 to December 2022 (shown in the below Figure) from the installed 2.4 MWh rooftop solar power plant.



Solar Power Produced is **3435196 KWH**; In Gigajoules = **12367**

Solar Power Utilized in the Campus = **3027961 KWH (88% utilized)**

Solar Power Export to Grid = **407235 KWH (12% exported)**

Remarks:

The installed solar power is one of the largest affordable and clean energy generations in an educational institution in India. <https://www.youtube.com/watch?v=ucXI5iGB7YA>

The solar plant helps **offset 2152 tons** of carbon emission reduced in the year 2022 from Solar Power Production.

Thanking you,



Yours faithfully

R. Arun Prasath



Dr. R. ARUN PRASATH
Professor & Head
Department of Green Energy Technology
Madanjeet School of Green Energy Technologies
Pondicherry University, Puducherry-605 014.

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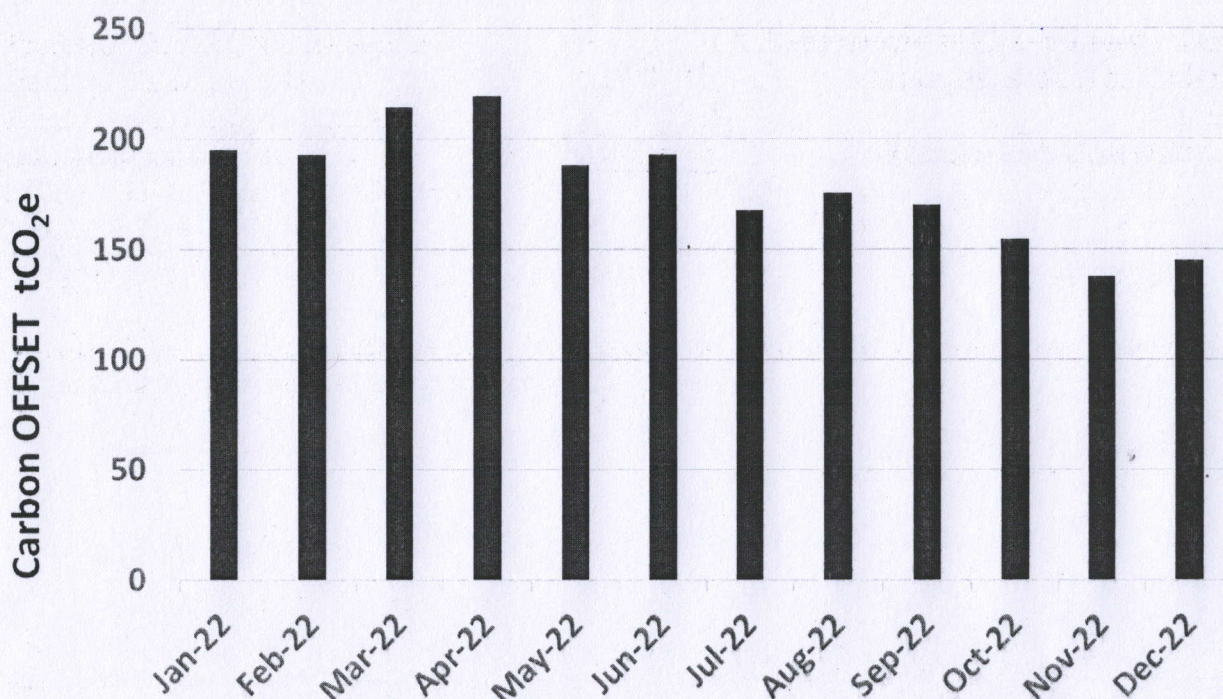


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PU/GET/AP/ CO₂e offset from Solar Power Generation

25-10-2023

Scope 2: CO₂e OFFSET through the Solar Power production at Pondicherry University Main Campus for the year 2022 from the installed 2.4 MWh rooftop solar power plant.



Pondicherry University has installed a 2.4 MWp rooftop/ground solar power plant -one of the largest affordable and clean energy generation in an educational institution in India. The installed solar power plant helped to **offset 2152 tons of carbon emission for the year 2022 (as shown in the above Figure)**. The Solar power plant policy and power production will last until 2046. The university has taken several steps to renovate the old building with energy-efficient lights (LED), inverter cooling systems, centralized cooling systems, rooftop solar PV, rooftop rainwater harvesting, solar water heating systems, etc. Solar photovoltaic power generation systems in existing rooftop buildings are a significant achievement at Pondicherry University.

Thanking you,

Yours faithfully



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25/10/23

R. Arun Prasath



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Mission Statement (in English)	<p>Vision: To develop enlightened citizenship of a knowledge society for peace and prosperity of individuals, nation, and the world, through the promotion of innovation, creative endeavours, and scholarly inquiry.</p> <p>Mission: To serve as a beacon of change, through multi-disciplinary learning, for creation of knowledge community, by building a strong character and nurturing value-based transparent work ethics, promoting creative and critical thinking for holistic development and self-sustenance for the people of India. The University seeks to achieve this objective by cultivating an environment of excellence in teaching, research, consultancy, and innovation in pure and applied areas of learning.</p>
University Accrediting Body	National Assessment and Accreditation Council
Region	Puducherry
Institutional Perimeter Inclusions	<ul style="list-style-type: none"> Off campus and constituent colleges
Institutional Perimeter Exclusions	<ul style="list-style-type: none"> Affiliated colleges

Preview, print & submit

Affordable and Clean Energy (SDG 7)

Name	Value	Year on year change from 2023
University measures towards affordable and clean energy		
Does your university as a body have a policy in place for ensuring all renovations / new builds are following energy efficiency standards? (relevant standards to be indicated)	Yes	-
Evidence	File uploaded: 7.2.1.docx File uploaded: SDG 7.2 lb- PU-LED bulbs and energy efficient appliances 2022.pdf	
Comment	https://www.apscglobal.org/wp-content/uploads/2023/10/SDG-7-AffordableandCleanEnergy.pdf	
Policy created (yyyy)	2017	0%
Comment	Green Building in the main campus: Policy created in 2017 and active as of today, 25-10-2023. The up-gradation of old buildings and renewal of a policy of existing buildings are in the card and the proof for the activities shown in SDG 7.2 lb- PU-LED bulbs and energy-efficient appliances 2022. The new hostel and staff-quarter buildings are coming up with incorporating sustainable energy, materials, water, and waste concepts. Solar Power Plant in the main campus: The policy was created in 2019 to install 2.4 MW. The mega solar power plant was implemented in August 2021 and is operational (Policy for 25 years).	
Policy reviewed (yyyy)	2022	0%
Comment	The policy for green building is active and ongoing. The "THREE STAR" GRIHA rating green building on any higher educational campus was established at Pondicherry University. The mega solar power plant policy (2.4 MWp installed capacity) for 25 years from 2021 to 2046.	

Name	Value	Year on year change from 2023
Does your university as a body have plans to upgrade existing buildings to higher energy efficiency?	Yes	-
Evidence	File uploaded: SDG 7.2-IIa Solar power plants at PU.pdf File uploaded: SDG 7.2 IIb- PU-LED energy efficient appliances 2022.pdf	
Comment	The university has taken several steps to renovate the existing old building with energy-efficient lights (LED), inverter cooling systems, centralized cooling systems, roof-top solar PV, roof-top rainwater harvesting, solar water heating systems, etc. Notably, the solar photovoltaic power generation systems in existing roof-top buildings are a significant achievement.	
Does your university as a body have a process for carbon management and reducing carbon dioxide emissions?	Yes	-
Evidence	File uploaded: SDG 7.2 IIIa Solar power production for the year 2022.pdf File uploaded: SDG 7.2 IIIb Carbon emission offset for the year 2022.pdf	
Comment	The 2.4 MWp rooftop solar power plant produced 12367 Gigajoules of solar power for the year 2022 (January 2022- December 2022) and helped offset 2152 tons of carbon emission. In addition, the university has implemented energy-efficient appliances such as LED lighting, low-power smart fans, sensor lights, small solar PV on the rooftop, and solar thermal and electric mobility.	
Does your university as a body have an energy efficiency plan in place to reduce overall energy consumption?	Yes	-
Evidence	File uploaded: SDG 7.2 IIb- PU-LED energy efficient appliances 2022.pdf File uploaded: SDG 7.3la -Total energy consumption for the year 2022.pdf	
Comment	The University's dedicated electrical wing looks into this aspect very carefully. The energy meters have been fixed to check energy usage and leakage and supply excess energy to the Pondicherry grid via energy metering. The University constantly replaces old appliances with high-energy-efficient appliances (LED, energy-efficient fans, ACs, printers, computers, etc).	
Does your university as a body undergo energy reviews to identify areas where energy wastage is highest?	Yes	-
Evidence	Evidence url: https://www.pondiuni.edu.in/university_news/tender-for-conduct-of-green-audit-at-pondicherry-university-adhering-to-the-naac-guidelines/ (https://www.pondiuni.edu.in/university_news/tender-for-conduct-of-green-audit-at-pondicherry-university-adhering-to-the-naac-guidelines/) Evidence url: https://www.pondiuni.edu.in/department/electrical-wing/ (https://www.pondiuni.edu.in/department/electrical-wing/)	

Name	Value	Year on year change from 2023
Comment	The dedicated electrical wing of our University has installed energy meters across all departments for energy audit and to identify energy wastages. In addition, the University conducts meetings and reports to all the departments of the University about wastage of power, incidents, etc.	
Does your university as a body have a policy on divesting investments from carbon-intensive energy industries especially coal and oil?	Yes	-
Evidence	File uploaded: SDG 7.2-IIa Solar power plants at PU.pdf File uploaded: SDG 7.2 Id Solar Power Plant Policy 2021 implementation and ACTIVE.pdf	
Comment	https://www.apscglobal.org/wp-content/uploads/2023/10/SDG-7-AffordableandCleanEnergy.pdf	
Policy created (yyyy)	2021	0%
Policy reviewed (yyyy)	2022	0%
Comment	The university committed to installing more solar power plants in the coming years.	

Energy use density

Total energy used	33,304GJ	86% 
University floor space	95,000m ²	21%

Energy and the community

Does your university as a body provide programmes for local community to learn about importance of energy efficiency and clean energy?	Yes	-
Evidence	Evidence url: https://pib.gov.in/PressReleasePage.aspx?PRID=1882691 (https://pib.gov.in/PressReleasePage.aspx?PRID=1882691) Evidence url: https://www.thehindu.com/news/cities/puducherry/pondicherry-university-showcases-green-energy-solutions-at-g20-s20-meet/article66454375.ece (https://www.thehindu.com/news/cities/puducherry/pondicherry-university-showcases-green-energy-solutions-at-g20-s20-meet/article66454375.ece)	
Comment	The Department of Green Energy Technology conducts seminars, workshops, and conferences to reach out to local society and academics to promote energy efficiency and clean energy.	
Does your university as a body promote a public pledge toward 100% renewable energy (petitions, meetings, discussions, events) beyond the university?	Yes	-

Name	Value	Year on year change from 2023
Evidence	File uploaded: SDG 7.4 IIa GET National Conference on Recent Trends in Green Energy Technologies flyer 2022.pdf Evidence url: https://m.youtube.com/watch?v=CUwCCKM6D-I&feature=youtu.be (https://m.youtube.com/watch?v=CUwCCKM6D-I&feature=youtu.be)	
Comment	The Department of Green Energy Technology and sister departments of Pondicherry University conduct seminars, workshops, and conferences to reach out to local society and academics to promote energy efficiency and clean energy.	
Does your university as a body provide direct services to local industry aimed at improving energy efficiency and clean energy (energy efficiency assessments, workshops, research renewable energy options)	free	-
Evidence	File uploaded: SDG 7.4 IVa List of Research Article Publications 2022.pdf Evidence url: https://www.pondiuni.edu.in/department/centre-for-green-energy-technology/ (https://www.pondiuni.edu.in/department/centre-for-green-energy-technology/)	
Comment	The Department of Green Energy Technology is dedicated to teaching, learning, and outreach to promote the importance of renewable energy.	
Does your university as a body inform and support government in clean energy and energy-efficient technology policy development?	local, regional, national, global	-
Evidence	File uploaded: SDG 7.4 IVa List of Research Article Publications 2022.pdf Evidence url: https://www.pondiuni.edu.in/department/centre-for-green-energy-technology/ (https://www.pondiuni.edu.in/department/centre-for-green-energy-technology/)	
Comment	Pondicherry University established a separate school named "Madanjeet School of Green Energy Technologies" to promote clean energy activities in 2010. The school and other university departments have been active in teaching and research to promote clean energy and sustainability for the past ten years —a list of published research articles and patents published during 2021.	
Does your university as a body provide assistance for start-ups that foster and support a low-carbon economy/technology?	Yes	-
Evidence	Evidence url: https://www.youtube.com/watch?v=ucXI5iGB7YA (https://www.youtube.com/watch?v=ucXI5iGB7YA) File uploaded: SDG 7.2 Ic Solar Power - 2.4 MWp plant 2021.pdf	
Comment	The mega 2.4 MWp rooftop solar power plant in the main campus promotes renewable energy technologies with locals and academics for start-ups that foster and support a low-carbon economy.	