
Fwd: U75: National Movement for Net Zero -Carbon Neutral Campus- in 75 Universities.

Directortias <directortias@tecnia.in>

Fri, Jun 23, 2023 at 10:35 AM

To: Nss Tecnia <Nss@tecnia.in>, Fit India Youth Club <Fitindiayouth@tecnia.in>, Eco@tecnia.in, TIAS-Website <tecniawebsite@tecnia.in>, HOD BBA <hodbba@tecnia.in>, HOD BAJMC <hodbajmc@tecnia.in>, HOD MBA <hodmba@tecnia.in>, hod bca <hodbca@tecnia.in>

For information and necessary compliance.

----- Forwarded message -----

From: **All India Council for Technical Education(no-reply)** <admin@aicte-india.org>

Date: Wed, Jun 21, 2023 at 5:40 PM

Subject: U75: National Movement for Net Zero -Carbon Neutral Campus- in 75 Universities.

To: <directortias@tecnia.in>

Sir/Madam,

I am pleased to convey to you that a national initiative, **aligned with NEP-2020 and mission LiFE promoted by Hon'ble PM Narendra Modi**, has been launched on 1st May 2023 jointly with AICTE, NBA, Niti Aayog, UNESCO and Green TERRE Foundation, a not-for-profit organisation. The initiative is called 'Not Zero-Net Zero'. It engages the students and the faculties to make the campus as living lab for the carbon-neutrality i.e. Net Zero

This initiative, under the Smart Campus Cloud Network of Universities and HEIs, aims to build the skills of students to make them Climate-Ready. India is celebrating G20 Presidency, and hence this movement 'Not Zero-Net Zero' is being launched at the right time. **Hon'ble Prime Minister Modi** has resolved that India would be Net Zero by 2070. **AICTE fully supports the initiative** as it would have multiple benefits and multiplying effect. Achieving net zero will require a combination of technological advancement, policy changes, societal shifts, and mindsets of the individuals, their choices, and actions that would be guided by SCCN and supported by its partners including AICTE

The briefing note given below from Dr Rajendra Shende, former Director of UNEP and IIT Alumni and founder Director of Green TERRE Foundation, is requesting you to register your university/HEI under the project of U75. The project seeks to kick off Net Zero in 75 universities during the 75th Anniversary of the India's Independence, *Azadi ka Amrut Mahotsav*. I expect that example of 75 institutes would spread the Net Zero mission in all other institutes.

I strongly recommend that you register your university under U75 by filling the google form <https://forms.gle/nRVq6pXr3cxKFxUr9>.

Warm Regards and Best wishes.

A briefing note from Green TERRE Foundation,

Subject : U75 : Invitation to join National Movement of Net Zero -Carbon Neutral Campus

Smart Campus Cloud Network-SCCN is a global network of 460+ Universities for SDGs under Green TERRE Foundation! Inspired by the mission LiFE (Lifestyle for Environment) jointly launched by United Nations Secretary General Antonio Guterres and PM Narendra Modi, a game-changing and path-breaking National movement called '**U75-Not Zero-Net Zero University campuses**' was initiated on 1st May 2023.

U75 movement is mentored by **Erik Solheim** former Under Secretary General of United Nations and **Prakash Javadekar**, former Minister of Environment, Forest and Climate Change in alliance with **UGC, NBA (National Board of Accreditation), AICTE, Niti Aayog, UNESCO and Green TERRE Foundation**. It symbolises arrival of India's youth-led climate-moment. On the occasion of 75th anniversary of the India's independence-*Azadi ka Amrit Mahotsav*, 75 Universities are being short listed to kick off the action. It is expected, as forecasted by Dr Anil Sahasrabudhe, Chairman of NBA and Prof T.Sitharam, Chairman of AICTE, that U75 would trigger the inspirational chain of Net Zero across the Higher Educational Institutes.

Based on our consultation with the mentors of the SCCN as well as with NBA and AICTE, **we are pleased to inform you that your university is being considered for possible inclusion in 'U75:National Movement of Net Zero in the University Campus'**. Actions to make Campus net-zero have multitude of benefits to universities, students, society and nation. These benefits include aligning the education towards NEP-2020, cost saving through sustainable initiatives like energy efficiency and renewables, students' health improvements due to reduction in air-pollution, enhancing student's gainful employability and upgrading university's standing in national and global ranking.

We request you to give your consent to be part of U75 latest by 15 th June 2023 by filling the Google form : <https://forms.gle/nRVq6pXr3cxKFxUr9>. Your consent will help us to further establish the contact you or your representative indicated in the form. Once we receive your consent, we would be informing you of the next steps that would include national/regional meet with the mentors, partners and experts. The dates of the meeting would be in July 2023.

Attached is the concept note for **U75: Not Zero-Net Zero University Campus**. It provides context and explains benefits to universities and students. Also attached is ‘ **Baby steps for Carbon Neutral campus**’ that outlines the initial steps needed by the universities.

For your information we are also attaching the list of **media reports that appeared after the launch of U75 on 1st May 2023**.

Please contact in case of any clarification:

Durga Kamat : durga.kamat95@gmail.com, +918928418360

Rajendra Shende : shende.rajendra@gmail.com +918975657235

PFA: <https://docs.google.com/document/d/1voqJ-X5nZw6lkA87BxIq2VNjTzjrTuT/edit?usp=sharing&oid=117518947182740027481&rtpof=true&sd=true>

PFA: https://drive.google.com/file/d/1ZU6PVtGOMs3JG8k4NBrl_b_N7_leW32S/view?usp=sharing

PFA: https://drive.google.com/file/d/1WPUBEB0AsQOomD3mLCv5CRjrWYn_nHEQ/view?usp=sharing

Warm Regards and Best wishes.

Dr. Mamta Rani Agarwal

Advisor-I

Policy & Academic Planning Bureau

All India Council for Technical Education,

Nelson Mandela Marg, Vasant Kunj,

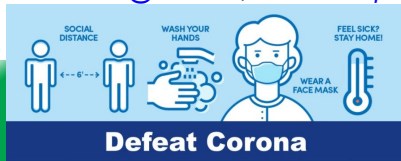
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U75 - National Mission for Net-Zero University Campus (Carbon Neutrality)

Media reports

1. Press Trust of India (PTI) - <https://www.ptinews.com/news/national/campuses-of-all-educational-institutions-should-be-carbon-neutral-by-2030-prakash-javadekar/562280.html>
2. Zee Business - <https://www.zeebiz.com/economy-infra/news-campuses-of-all-educational-institutions-should-be-carbon-neutral-by-2030-prakash-javadekar-233102>
3. The Print - <https://theprint.in/india/campuses-of-all-educational-institutions-should-be-carbon-neutral-by-2030-prakash-javadekar/1551107/>
4. NDTV - <https://swachhindia.ndtv.com/campuses-of-all-educational-institutions-should-be-carbon-neutral-by-2030-former-environment-minister-prakash-javadekar-76547/>
5. Outlook Planet - <https://planet.outlookindia.com/news/climate-change-should-be-taught-at-school-level-news-415172>
6. Bharat Times - <https://eng.bharattimes.co.in/campuses-of-all-educational-institutions-should-be-carbon-neutral-by-2030-prakash-javadekar/>
7. Republic World - <https://www.republicworld.com/india-news/general-news/campuses-of-all-educational-institutions-should-be-carbon-neutral-by-2030-prakash-javadekar-articleshow.html>
8. News18 - <https://www.news18.com/education-career/campuses-of-all-educational-institutions-should-be-carbon-neutral-by-2030-prakash-javadekar-7703011.html>
9. South Asia Monitor - <https://www.southasiamonitor.org/open-forum/u75-historic-national-launch-carbon-neutrality-75-universities-across-india>
10. Punjab Kesari - <https://www.punjabkesari.in/national/news/prakash-javadekar-educational-institutions-country-carbon-neutral-year-2030-1815151>

U75: Not Zero-Net Zero University Campus

- **Context**

On **2nd Dec 2021**, PM Narendra Modi declared that 'Today India is moving forward on the subject of climate with great courage and unprecedented ambition that by the year 2070, India will achieve the target of Net Zero carbon emission'. PM Modi was addressing **COP26** of United Nations Framework Convention on Climate Change in Glasgow, UK.

Carbon Neutrality, reducing the carbon emission to net zero, has been identified by Intergovernmental Panel on Climate Change (IPCC) as the definite way out of the existential threat to our planet. What more, the social and economic benefits of Carbon Neutrality stand-out as new era of 'New and Clean Energy' take roots. Taking the clue, number of businesses, cities and more than 100 have now set or are considering a target of reducing emissions to net zero by around mid-century.

On 12th December 2020, on fifth anniversary of the Paris agreement, **Green TERRE Foundation**, (herein after called **TERRE**), a not-for-profit, section 8 company, as part of its Smart Campus Cloud Network, organized the virtual interaction with 12 Vice Chancellors from the well-known universities across the length and breadth of India. One university from Latin America (Peru) also participated. UNESCO, AICTE and EESL (Energy Efficiency Services Limited) participated to interact with VCs at the highest level. All the VCs in the event took the pledge to attain net-zero emissions within the time span stipulated by IPCC. Since then, 250+ higher educational institutes have taken pledge on-line.

- **Objective**

Make youth future-ready through hands-on and skill-building exercises by transforming campuses into living-labs for SDGs and Carbon Neutrality-Net Zero.

- **What is Carbon Neutrality**

The Intergovernmental Panel on Climate Change (IPCC) defines Carbon Neutrality as: "anthropogenic greenhouse gas emissions are offset by an equal number of emissions reduced, avoided, or sequestered within a given time horizon."

The IPCC concluded the need for net zero CO₂ by 2050 to remain consistent with 1.5C.

The 2015 Paris Agreement set a global goal (couched in legalese) to reach net zero emissions in the second half of the century. An increasing number of governments are translating that into national strategy, setting out visions of a carbon-free future to end their contribution to global warming.

Offsetting of emissions include creating carbon-sink like afforestation and carbon credits.

Every country, city, financial institution and company should adopt plans for net zero -- and act now to get on the right path to that goal.

- **Why carbon neutrality is urgent and crucial**

Carbon dioxide (CO₂) emissions are one of the main causes of climate change. CO₂, and other greenhouse gases (GHG), traps in solar radiation and warms the surface of the Earth. The effects of global warming in the coming decades will be extreme catastrophic.

Climate change is the biggest challenge facing humanity today. While the Covid-19 pandemic has temporarily reduced emissions, carbon dioxide levels are still at record highs – and rising. The past decade was the hottest on record; Arctic Sea ice in October was the lowest ever, and apocalyptic fires, floods, droughts and storms are increasingly the newnormal. Biodiversity is collapsing, deserts are spreading, oceans are warming and choking with plastic waste.

Pandemic recovery gives us an unexpected yet vital opportunity to attack climate change, fix our global environment, re-engineer economies and re-imagine our future.

- **What is needed to become Carbon Neutral World**

A growing coalition of countries, cities, businesses and other institutions are pledging to get to net-zero emissions. 137 countries have committed to carbon neutrality, as tracked by the **Energy and Climate Intelligence Unit** and confirmed by pledges to the Carbon Neutrality Coalition and recent policy statements by governments. Necessary approach must include:

1. To build a truly global coalition for Carbon Neutrality by 2050.
2. To align global finance and policies with the Paris Agreement and the Sustainable Development Goals, the world's blueprint for a better future.
3. Secure a breakthrough on adaptation and resilience to help those already facing dire impacts of climate change.

- **Why universities and Higher Educations Institutes**

Educational institutes have the potential to make a shift in social, economic and ecological spheres since they are in a position to apply the theory in the education system into practicality and shape the minds of the youth towards a better future. Educational systems worldwide are moving towards such positive changes realizing their responsibility to address

their impact on the environment and encourage the young generation to work more responsibly. Universities, working in transdisciplinary ambience, bridge the cross-sectoral and interlinked Sustainable Development Goals while implementing the solutions, especially the **SDG 13 on Climate Change**, as it is said that *'Next Pandemic would be more severe and would be about sustainability.'*

Dynamic and energized College campuses can demonstrate ambitious carbon emission reductions and such accomplishments can trigger actionable awareness on carbon neutrality. Time targets for carbon emission reductions and finally net-zero neutrality in universities and colleges may vary. But the time to begin the action is **NOW**. Going forward into the “**Decade of Action**”, when only a decade is in hand to meet the targets, achieving the net-zero campuses (as part of SDG13) is the most appropriate step.

The university campuses should increasingly be used as **'living labs'** to test new technologies. The advantages are obvious. Firstly, universities have sole ownership of large campuses, which may even have standalone energy systems. The lack of wider stakeholders makes it easier to implement change. Secondly, they have an engaged population of students who will be enthusiastic to test new ways of doing things. Universities have a relatively untapped wealth of academic expertise that can advise on and even lead new energy projects. Finally, some synergies can be put back into the education of students.

- **Types of emissions from universities**

An important part of the process of achieving carbon neutrality is to focus on **monitoring and evaluating the carbon emissions** on campus. Emissions are usually classified into three groups or **'scopes'**:

1. Emission owing to electricity or heat etc. produced on the campus itself
2. Emissions owing to imported electricity, fuel to provide for cooling or heating other spaces on campus
3. Emissions owing to indirect activities in the campus- fuel consumed owing to travelling, waste generated etc.

The details of each scope are in annex (attached to this note)

- **What is needed from universities & HEIs to become carbon Neutral (Including disclosure, monitoring, reporting and sharing)**

As large producers of carbon, universities are not exempt from the global target and they have a responsibility to follow and set a good example to the community and other organisations. The university students should graduate from universities with an increased knowledge of climate change and sustainability. The young minds should be made potential to leave university with the confidence to spread climate literacy throughout the general population.

It's difficult to know where to begin when it comes to reducing the carbon emissions of your institution. The best place to start is by approaching the experts; those who can calculate your current emissions, develop a plan, and eventually provide you with a certificate to acknowledge your carbon neutral status. Once your carbon footprint has been calculated, the next step is to implement methods of reducing your institution's carbon emissions. While reducing your institution's carbon emissions is important, it must also continue to run effectively and achieve its function as a university.

- **Benefits to Universities, Students and Society**

1. Opportunity to emerge as a carbon neutral and responsible university
2. Contribute to India's determination to be Carbon Neutral by 2070
3. Get Monetary benefits through reduction in electricity bill.
4. Be a benchmark for other Indian universities
5. Improve your sustainability ratings
6. Access to SCCN's corporate and technical experts
7. Access to digital dashboard to measure and monitor your CO2 emissions
8. Be part of SCCN to implement SDGs in the campus.

- **Importance of using Digital technologies**

Data and digital technologies have proven to be crucial in achieving a Carbon Neutrality. They can help reduce greenhouse gas (GHG) emissions, strengthen resilience to climate-related natural hazards and improve organizational capacity to act. Mobile technologies, wearables and sensors, cloud computing and big data technologies are redefining business models. Digital technologies from smart meters to supercomputers, weather modelling and AI, could reduce emissions by 20% by 2050 in the three highest-emitting sectors: energy, materials, and mobility. Digital technologies—such as sensors, networked devices, and data analytics—are already changing how energy is used and consumed across the economy.

In the **energy sector**, digital use cases can deliver up to 8% of greenhouse gas (GHG) reductions by 2050. This would be achieved via enhancing efficiency in carbon-intensive processes and enhancing energy efficiency in buildings, as well as by deploying and managing renewable energy using artificial intelligence.

In **materials**, digital use cases can provide up to 7% of GHG reductions by 2050. This would happen by improving mining and upstream production and relying on foundational technologies such as big data analytics and cloud/edge computing. In addition, use cases leveraging blockchain could enhance process efficiency and promote circularity.

In **mobility**, digital use cases could decrease up to 5% of GHG emissions by 2050, according to our research. This would mean leveraging sensing technologies like IoT, imaging and geo-location to gather real-time data to drive system decision-making. It would ultimately improve route optimisation and lower emissions in both rail and road transport.

Education Sector:

Technologies such as data analytics, IoT and blockchain are increasingly helping universities monitor and tackle the Scope 3 impacts

The universities should establish baseline carbon footprint, to identify emission reduction strategies and track the progress towards achieving the set carbon emission target. It also enables to understand the full impact across all scopes of the campus.

Drones and satellite imagery are more advanced and accessible than ever before, making surveying and monitoring large areas of land more efficient, faster and cost-effective. Using this technology, projects can be monitored for health, enabling faster identification of ecosystem threats and prompt action to protect them.

- **Role of universities / HEIs and TERRE**

Universities/HEIs:

1. The role of universities will be to initiate the actions and align the campus activities towards carbon neutrality in their campuses.
2. The students should be the primary role models to kick start the activities under the supervision of faculties.
3. The universities should become a part of **Smart Campus Cloud Network** by **registering** with the network and **signing the pledge** of Carbon Neutrality.
4. The universities should provide all the required data as and when needed during the monitoring and implementation stages.
5. A letter of Intent or MoU should be signed between the University and TERRE to execute the project in the campuses.

TERRE's SCCN:

1. TERRE's SCCN will act as a knowledge and technical partner to universities.
2. SCCN is intended to provide the guidance and mentor the entire process at each and every stage.
3. SCCN will provide the reference resources such as tool-kit, brochures, primer and guidelines. It will also arrange the technical experts from various national and international organisations to guide the students and faculties on new emerging technologies.
4. SCCN will also provide digital cloud dashboard to map and monitor the campus CO2 emissions throughout the process. The success stories of the universities will be shared globally through the dashboard.

- **Milestones of Not Zero-Net Zero University Campus**

- Not Zero-Net Zero Conceptualized and Inaugurated: 12th December 2020
- Floated in the universities under AICTE: 12th December 2020 – May 2022
- Structuring and Strategy Development: June 2022 onwards
- Global Launch: 16th November 2022, Sharm El Sheikh, Egypt @COP 27
- National Launch: 1st May 2023

The detailed steps are listed in the annexure:

- **Annexure**

Scope 1 emissions

Direct emissions- This Scope is concerned with on-campus emissions from facilities within the campus boundaries that include combustion (oil, natural gas), majorly from heating and cooling systems contributing to direct emissions. It also targets the emissions from the existing stock of buildings on campus along with other capital infrastructure.

Estimate the number of litres (fuel) used for combustion-related activities of-

- Cooling and heating systems,
- Other machinery or activities which utilizes combustion as a part of a primary process on campus

Scope 2 emissions

Indirect emissions, Energy- Emissions from the imported electricity, heat or steam consumed by the organization, including purchased electricity represents the indirect emissions owing to the campus.

There is a need to monitor the electricity consumption every month and effectively reduce consumption over a period. Monitor the utility bills from the campus and review them over a set period to get the cumulative data on the total Kilowatt-hours.

Scope 3 emissions

Other indirect emissions- This includes emissions from commuting and business-related travel, transportation of materials, plastic and non-plastic waste; waste generated by the organization but managed by another organization.

For this, there is a need to monitor.

- The number of Airline Miles or railways miles travelled in the name of the University or the college,
- The quantity of fuel (in litres) used for commuting to and from the campus by the employees and students,
- Waste disposal in terms of metric tons

Step by Step Actions:

The initiative starts with first registering the campus with the network @www.sccnhub.com and then signing the pledge of carbon neutrality: 'Not Zero-Net Zero'. A SCCN tool-kit will also be provided to induct the process to the university team. Once that is done the below mentioned steps are to be followed:

ESTABLISH

- The first step is to establish a core group or a carbon team to undertake proactive actions in the university campus. The core group should consist of group of students not more than 8 from various departments and year as well as faculties.
- The formation of core group will be followed by core group meeting including Vice Chancellor and TERRE's delegates.
- The meeting will be followed by MoU discussions.

IDENTIFY

- The next step is to identify all the direct & indirect sources of CO2 emissions of the educational campus.
- In order to do so TERRE will ask for the primary basic data from the university and plan the baseline survey in the campus. It will also help universities to identify the various sources of CO2 emissions.

CALCULATE

- Upon receiving the data, the experts from SCCN will visit the campus to carry out the base-line surveys.
- This step includes measuring the CO2 emissions based on accurate and complete raw data. It will specify the current carbon footprint of the campus.

PRIORITIZE

- After baseline survey the university will be able to set target and prioritize the emission reduction activities.
- The university should start implementing a Carbon Reduction Plan through prioritization.

REDUCE

- Identify opportunities and implement CO2 emission reduction activities in the campus. (Energy Conservation, Energy Efficiency & Renewable Energy)

OFFSET

- Any remaining CO2 emissions should be offset by purchasing certified carbon credits or creating a sink (Tree Plantation)

DOCUMENT

- Document and Validate all Carbon Neutral standards require a standard-compliant declaration of achievement of neutrality

SUSTAIN

- Device monitoring structure to sustain Carbon Neutrality on the universitycampus

END

Not Zero-Net Zero

Pledge for Carbon Neutrality



FIRST BABY STEPS FOR BOLD FUTURE

A SIMPLE GUIDE FOR MAKING CAMPUS OF
EDUCATIONAL INSTITUTES 'CARBON NEUTRAL'

More than 100 countries are championing the cause.

They have pledged carbon neutrality by year ranging from 2030 to 2070.



ACT NOW!

GLOBAL COALITION OF EDUCATION INSTITUTES:

SMART CAMPUS CLOUD NETWORK

SCCNHUB.COM



*By the year 2070,
India will achieve the target of Net Zero*

- H.E. Narendra Modi

Hon'ble Prime Minister of India





EMISSIONS

-



REDUCTION

-



OFFSETS

=



NEUTRALITY

COMMON SOURCES OF UNIVERSITY GREENHOUSE GAS EMISSIONS

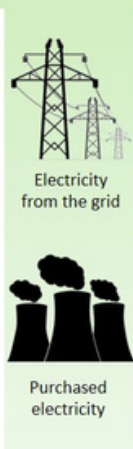
SF₆ CH₄ N₂O CO₂ HFCs PFCs

SCOPE 1



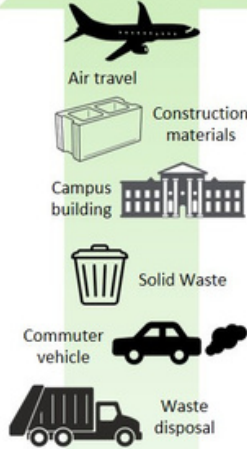
Direct Emissions

SCOPE 2



Indirect Emissions- Use of Electricity

SCOPE 3



Indirect Emissions- Use of fossil-fuels

WHAT IS CARBON NEUTRALITY?

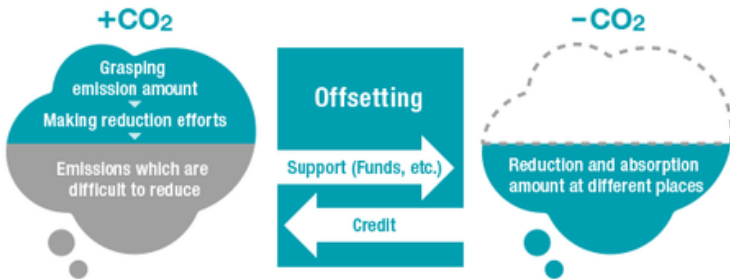
INTRODUCTION

Climate change is a planetary crisis, caused primarily by the emission of human-induced greenhouse gases, mainly carbon dioxide released from burning fossil fuels like oil, coal, and gas. It results in global warming.

CO₂ emissions need to fall to zero or net-zero by around mid-century to limit global warming to 2 deg C by end of this century. The longer it takes to do so, the more will be global warming.

Carbon neutrality refers to achieving net-zero carbon dioxide emissions by balancing human-induced carbon dioxide emissions with removal (often through carbon offsetting or carbon sink) and/or simply eliminating anthropogenic carbon dioxide emissions over a specified period.

A **carbon offset** or **Carbon Sink** is a reduction in emissions of carbon dioxide or other greenhouse gases made to compensate for ("offset") an emission made elsewhere or by creating a sink e.g. Tree Plantation.



WHY EDUCATIONAL INSTITUTES ?

The campuses of educational institutes are the spaces where students' minds get moulded, and their ambitions are shaped. Emission reductions and offsetting the residual emissions if practised on the campus would serve as Campus Determined Contributions for reducing global warming. This would trigger actionable awareness. More than that, it would be the skill development for students towards a carbon-neutral future.

Green TERRE Foundation, in collaboration with **UNESCO, AICTE and EESL**, on **12 December 2021**, launched the campaign Not Zero-Net Zero, a pledge for Carbon Neutrality for educational institutes. From 12 pledges on opening day, the number of institutes has grown to nearly 250+. It has become a mass movement on carbon neutrality.



ROAD MAP FOR CARBON NEUTRALITY

ESTABLISH

The first step is to establish a core group or a carbon team to undertake proactive actions in the university campus

IDENTIFY

The next step is to identify all the direct & indirect sources of CO₂ emissions of the Educational campus.

CALCULATE

Measure the CO₂ emissions based on accurate and complete raw data. It will give the carbon footprint of the campus.

PRIORITIZE

After understanding the carbon footprint, start implementing a Carbon Reduction Plan through prioritization. (Easy First)

REDUCE

Identify opportunities and implement CO₂ emission reduction activities in the campus. (Energy Efficiency)

OFFSET

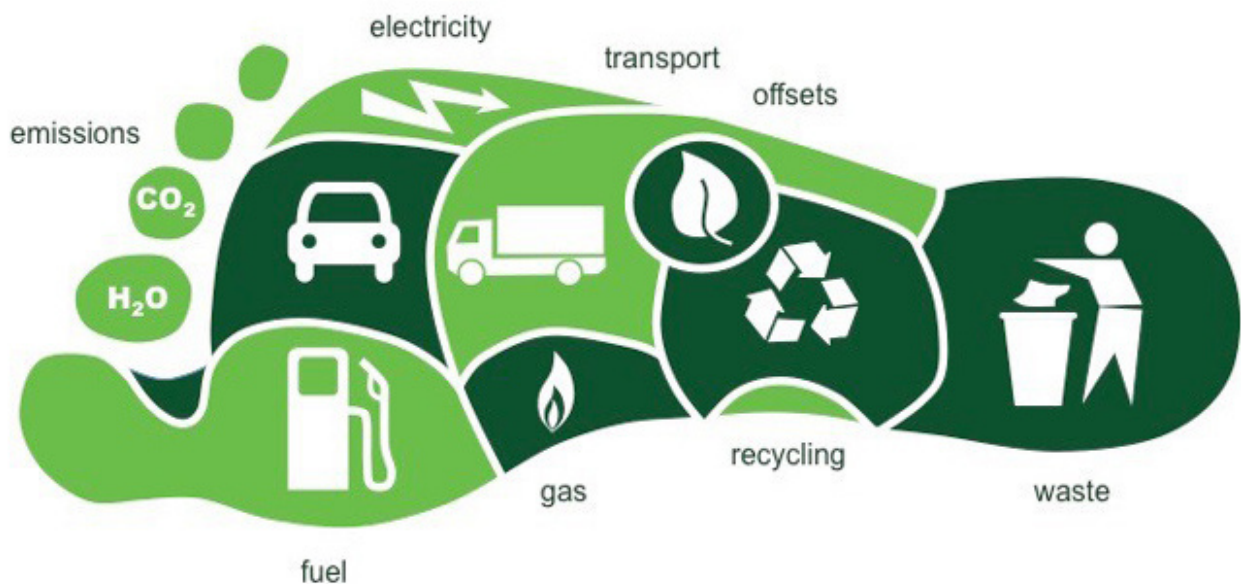
Any remaining CO₂ emissions should be offset by purchasing certified carbon credits or creating a sink (Tree Plantation)

DOCUMENT

Document and Validate all Carbon Neutral standards require a standard-compliant declaration of achievement of neutrality.

SUSTAIN

Device monitoring structure to sustain Carbon Neutrality on the university campus.



STEPS TO REDUCE CAMPUS CO2 EMISSIONS



1

Educate, Engage, and Encourage:

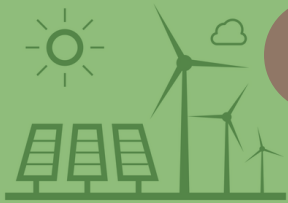
- Form a group of students to map out the Carbon Neutral Campus.
- Conduct an Energy and Carbon Audit.
- Educate students and staff on the harmful effects of GHG emissions and approaches to reduce them.
- Engage students and staff in moving to a greener lifestyle.
- Encourage carbon footprint reduction with incentives such as a monthly contest.



2

Choose Energy-Efficient Appliances:

- Prepare instructions and advice for energy-saving behaviour.
- Aim to replace old appliances with energy-efficient alternatives.
- Purchase BEE - Energy Star label appliances.
- Take advantage of natural light as much as possible to save energy.



3

Switch to Low-Carbon Energy provider:

- Sign up to get electricity from clean energy through a local utility or a certified renewable energy provider.
- Invest in On-Site clean energy or Off-Site large scale renewable energy.
- Consider Waste-to-Energy Project. (Bio-gas)



4

Travel Less and Wisely:

- Choose for train travel over plane travel.
- Choose a holiday destination closer to home.
- Coordinate carpooling between employees.
- Replace unnecessary air travel with virtual meetings and online training sessions.



5

Consider Alternative Mode of Transport:

- Ride a bike to work (also helps to improve health).
- Choose public transport or switch to an electric or hybrid vehicle.
- Work from home if able to do so.



6

Use Less Water: (This will save energy needed for pumping)

- Use low-flow water fixtures.
- Turn off the taps to avoid water running.
- Adopt rainwater harvesting techniques.
- Monitor the water consumption and any leakages.



7

Eating more Plant-based Food:

- Giving up meat for one day of the week.
- Replacing one meal a day with a plant-based option.
- Aim to eat things that are as low as possible on the food chain.
- Grow vegetables and fruits in the garden.



8

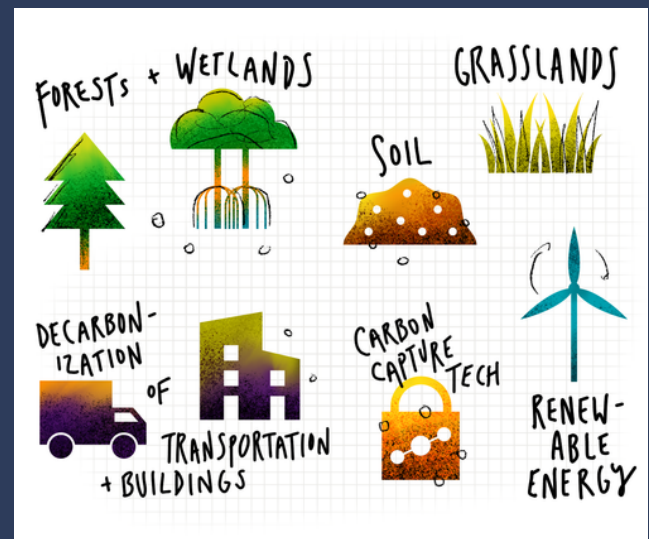
Rethink Consumption Patterns:

- Buy clothing from companies that are eco-friendly and/or organically certified.
- Consider buying second-hand clothes or joining a clothing swap group.
- Practise consumption patterns that emit minimal CO2.

CARBON OFFSETS & CARBON SINKS

Reducing emissions should be a priority before considering offset & Sink to achieve Carbon Neutrality. Carbon offset schemes allow institutions to invest in environmental projects around the world in order to balance out their own carbon footprints.

- Sustainable reforestation and restoring existing forest areas and biodiversity.
- Developing new sources of income for rural communities.
- Investing in agricultural activities that store carbon in soils.
- Investing in landfill projects that convert waste into clean fuel.
- Investing in Renewable Energy projects and Renewable Energy Credits.
- Tree Plantation in Urban areas, supporting urban forests.



SCCN HELPS YOU TO MAKE YOUR CAMPUS CARBON NEUTRAL

- Register your campus with sccnhub.com
- Take a carbon neutrality pledge: **Not Zero - Net Zero**. The campus is awarded a certificate.
- Form a **core group** or **carbon team** and send us a success story
- Refer to **SCCN tool-kit, Carbon Neutral Campus guidelines**
- Consult the SCCN team to initiate a **baseline survey** on your campus. SCCN has also developed a **Carbon Calculator** for campuses to calculate CO2 emissions.
- Set Campus **target** to achieve Carbon Neutrality.
- SCCN connects you to other stakeholders for **guidance and implementation** to achieve Net - Zero Targets.
- Document the success story and share it on the SCCN **Cloud Dashboard**.



5th Industrial Revolution digitally Interlinked man and machine.

6th Industrial Revolution would Creatively Delink Life on Earth from Excess Carbon Emissions.

Youth need to Relink our Planet to build Carbon Neutrality.

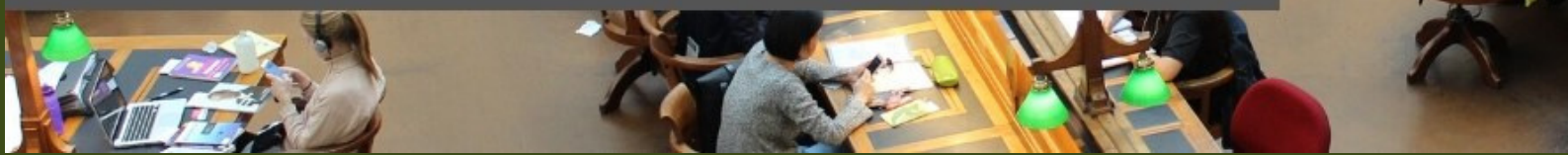
- Dr Rajendra Shende, Founder Director, Green TERRE Foundation
Prime Mover, SCCN | Former Director, UNEP





Smart Campus Cloud Network

The Hub That Connects Students, Faculties & Universities



ABOUT SCCN

SCCN, an abbreviation for Smart Campus Cloud Network, is one of the flagship projects of the Green TERRE Foundation. It is a global network of educational campuses of schools, colleges, institutes and universities committed to making a tangible contribution to the United Nations (UN) Sustainable Development Goals (SDGs). SCCN is strongly supported by UNESCO-Paris and, University Grants Commission, AICTE and the Ministry of Human Resource Development-India

Want to make your Campus Carbon Neutral?
Drop us a mail at sccn.team@gmail.com



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NOT ZERO NET ZERO

CARBON NEUTRAL CAMPUS GUIDELINES

Ride on Smart Campus Cloud Network

HERE IS HOW...





Smart Campus Cloud Network

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