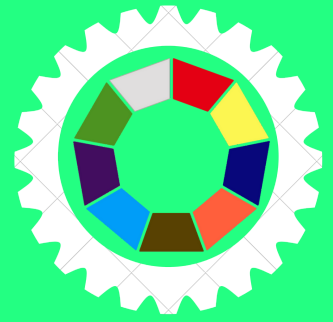




The Institution of
Green Engineers



IGEN SDG PROJECTS

2020



OUTCOME REPORT

IGEN SDG Projects Outcome Report 2020



Published by The Institution of Green Engineers
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For further information, please contact:
Director of the IGEN Publication
IGEN @ <https://www.theigen.org/>
Contact: writeus@theigen.org , 91 7305858932



About IGEN

The transition to a green economy . will not be possible . without well trained professionals able to tackle the challenges of globalization. and to manage major socio-economic .and environmental transformations. – Irina Bokova Director-General – UNESCO

In line with the UNESCO a healthy discussion was held between a group of technical experts across the globe on greener environment and effective use of natural resources. This discussion lead to an effective conclusion of forming a nonprofit professional society named “The Institution of Green Engineers” (IGEN)

The IGEN works towards achieving United Nation Sustainable Development Goals towards Green. It aims to be the solution provider for government policy drafting, to develop innovative products which in turn would lead to provide solution to sustainable greener world and to organize activities through 9colour nonagon named IGEN VIBBGGYOR society.

Serve as a catalyst to connect all professionals for building a greener world.

To bring together all the professional practitioners working for creating a green community. To provide sustainable environmental solutions to achieve a green world. To inspire, inform and influence the global engineering community to adopt green engineering practices in their design, product, process and systems.

Any member across the globe is eligible for IGEN Membership if he or she is interested to work and contribute whole heartily towards GREEN Environment.



IGEN

VIBBGGYOR

In order to fulfill IGEN objectives and perform effectively and efficiently, the Institution has structured its members according to their expertise/ in a particular discipline of engineering and grouped them under a society and named it as 9colour VIBBGGYOR

The nine working disciplines VIBBGGYOR are Waste Management, Next Gen Transport, Build Environment ,Intelligent Agriculture, Energy Efficiency Research Group, Clean Air and Water, Smart Health and wellness ,Future Computing and Safety and Standards

Any member across the globe is eligible for IGEN Membership if he or she is interested to work and contribute whole heartily towards GREEN Environment. The interested one can join as member through the membership portal "IGEN JUNCTION"

The IGEN VIBBGGYOR volunteers join together and execute activities under the nine VIBBGGYOR Society working towards United Nation Green SDG Goals 3,4,6,7,9,11,12,13 & 17



IGEN SDG PROJECTS



The Sustainable Development Goals (SDGs), also known as Global Goals, are a set of 17 integrated and interrelated goals to end poverty, protect the planet and ensure that humanity enjoys peace and prosperity by 2030.

Reporting on the SDGs is important in communicating to stakeholders the organization's commitment to contributing to the Global Goals; claiming accountability and responsibility to take the necessary actions; and measuring progress over time.

The Objective of IGEN SDG Projects is to execute projects, which will support the indicators of United Nation Sustainable Development Green Goals.

The projects will be organised by the IGEN Volunteers and execute by the team of members from the Academic Institutions and Industries. The type of the projects are UN SDG Action, SDG Awareness, SDG Implementation, Village Adaptation, Survey Projects, Green Diary, Green Day, Badge Project etc.,

Performance goals are a good way to monitor and measure progress. Reporting performance can include details such as indicators identified, data collected and SDG-related activities accomplished.

The IGEN SDG Outcome report published every year and reported to global, national and local decision making authority.

IGEN Global Recognition

Networking Partners for Global SDG Coordination

IGEN recognized as UN NGO from 2021



The DESA NGO Branch is the focal point within the UN Secretariat for non-governmental organizations in consultative status with the Economic and Social Council (ECOSOC) and for NGOs seeking status.

IGEN recognized at UN SDG Partnerships Platform from 2020 with Ref No :#SDG Action36968



The Partnerships for SDGs online platform is United Nations' global registry of voluntary commitments and multi-stakeholder partnerships, facilitating global engagement of all stakeholders in support of the implementation of the Sustainable Development Goals.

IGEN member at CoP on Food Loss Reduction



The Food and Agriculture Organization (FAO) is a specialized agency of the United Nations that leads international efforts to defeat hunger. Our goal is to achieve food security for all and make sure that people have regular access to enough high-quality food to lead active, healthy lives.

Message from the President



Dr. L. Ramesh

President -The Institution of Green Engineers
Member - MoGS HL Political Forum UN SDG
United Nation Volunteer - Ros.No:2261687

“You are the CEO of your life..You have the power to Stage and Compose it the way you want it to be” – Nethra Murali

As the above quote We are CEO's of our Surroundings. We have the power to Stage and Compose it the way we actually wanted it be to make our earth a better and greener one. From the ancient time, the lives of people were determined by environment. We need to give back the green environment for next generation. To be part of that, IGEN initiated green SDG activities and completed 13 projects, which is presented in this book with outcome towards United Nation Sustainable Development Goals in Green.

The Cardinal Concept of SDG Project outcome is given on Energy Conservation based on the GREEN9 Mantras. This book demonstrates the concern about Food Waste Battle, reduction of Carbon Footprints, Research Survey on Smart Meter/IC Microgrid/Battery Management. IGEN Energy99 Challenge Report gives the importance of diversified role of responsible citizens in saving our environment in a Sustainable manner based on UN SDGs.

IGEN also initiates services related to SDGs and provide various trainings and numerous programs which help everyone from a Kindergarten kid to golden aged people.

IGEN keeps its volunteer members always engaged in Green Responsibility activities. This new beginning, a fresh start for all responsible citizens during this pandemic will pave way into history of our mother earth with wonderful green memories.

Message from IGEN General Secretary



Er. Hudson Egbert

General Secretary IGEN

IET Council Member (2008–2016)

Former Secretary -IET Ottawa Canada

Local Network

The Institute of Green Engineers leading in the world with United Nation's Sustainable Development Goals. From Home Energy conservation to food waste, IGEN focused on every SDG goals.

Year 2020 was unforgettable year for the IGEN and the whole world. As a young institution, we introduce all these UN's SDG goals to India and rest of the world through different methods. We conducted surveys, pledges from members, students and public, contests and projects to meet SDG goals. It is all started with MGR University Vision-10MW project for home energy conservation, and through IGEN-GREEN9 students members visited home and factory and conducted energy surveys and provided reports. This initiative is a first in India by a Green institution.

IGEN carried the SDG goals through our core campaign of Green9 Mantras. This campaign pledge is our main event in 2020, students and public from around the world participated, such as India, Nigeria, Canada, Australia, Sri Lanka etc. IGEN goal is to provide these nine Mantras to all the house holds and businesses.

Thanks to all the IGEN leadership, members and students for their tireless help and great volunteerism to achieve all SDG goals.

Go green and Save Energy.

Message from Board of Governor



Padmashri Prof. R.M.Vasagam

Board of Governor – IGEN

Former Vice Chancellor Anna University

Former Director Indian Space Research Organisation

The initiatives of The Institution of Green Engineers in harnessing the power of students in the areas of energy saving ,environment protection ,going green in economic development and propagating the message to the community across the globe is highly laudable.

The Sustainable Development Goals (SDGs), also known as Global Goals, are a set of 17 integrated and interrelated goals to end poverty, protect the planet and ensure that humanity enjoys peace and prosperity by 2030.

Reporting on the SDGs is important in communicating to stakeholders the company's commitment to contributing to the Global Goals; claiming accountability and responsibility to take the necessary actions; and measuring progress over time.

The Publication on IGEN SDG PROJECTS OUTCOME brings out the identification of problems and solutions evolved with success by young IGEN volunteers in rural and urban areas to promote sustainable development.

I wish all success to the IGEN teams in their forthcoming programmes and projects

Message from Board of Governor



Padmashri Prof. P. I. John

Board of Governor – IGEN

Formerly Meghnad Saha Chair for Plasma Science and Technology

Emeritus Professor at Institute For Plasma Research

I am very pleased to commend the "IGEN SDG Projects Outcome Report 2020" to the environmentally enlightened public. These 13 projects were executed under the general guidance provided by IGEN and involved groups active in environmental issues.

I consider it a privilege to be associated with The Institution of Green Engineers which promotes Green engineering through various means to reduce pollution, promote sustainability and minimize risk to human health and environment. It organises events and projects to create environmental awareness in the country.

This document covers reports on very interesting projects consistent with the broad goals of sustainable development. The projects covered subjects ranging from home energy conservation to challenges faced during Interconnection of Microgrids. Home energy conservation had a specific objective of reducing Carbon Dioxide emission by the savings of 10MW Energy and to design and develop home energy conservation ideas to reduce consumption at home. The "Wind energy battery management system" surveyed the coordination between Battery Energy Storage Systems.

I commend the commitment showed by all the groups in executing the projects in an excellent way and fervently hope that the IGEN activities would go a long way in greening India.

<https://www.pucadyil.com>

Message from Board of Advisor



Dr. Wesam Al Madhoun

Board of Advisor - IGEN

**Director for Center of Sustainable
Development, Gaza University**

President of Impact Youth Sustainability

First of all, I would like to congratulate The Institution of Green Engineers (IGEN) for such great achievement of producing "IGEN SDG Projects Outcome Report 2020". IGEN Team did a great job towards promoting sustainability and the SDG's to create a bigger impact nationally and internationally.

Such activities help to build the capacities of activists and young leaders, who are caring about environment and promoting sustainable practices. A sustainable lifestyle which balances the economy development needs with the environmental protection, taking into account the social justice dimension.

Lately, nature started sending us a message: To care for ourselves we must care for nature. It's time to wake up. To raise our voices. It's time to build back better for People and Planet.

The goal of sustainable development is to increase the quality of life for all people without increasing environmental degradation and without compromising the resource needs of future generations.

I hope to see great advances on sustainable development and climate change, let's make more remarkable programs to create a positive change movement for more sustainable and healthier planet.

Last but not least, I wish IGEN successful future programs which will have a positive global impact for the betterment of the humanity.

Message from Board of Advisor



Er. APJMJ Sheik Dawood

Board of Advisor - IGEN

Co-Founder, APJ Abdul Kalam International Foundation

From the House of Kalam – Rameswaram

I am very pleased to commend the "IGEN SDG Projects Outcome Report 2020" to the environmentally enlightened public.

There are 17 SDGs and 169 targets in total. Performance goals are a good way to monitor and measure progress. This was perfectly done by IGEN team. These 13 projects were executed under the general guidance provided by IGEN and involved groups active in environmental issues.

Thank you for IGEN wonderful efforts towards making our planet green. It is really helping your effort to spread the knowledge about green and environment issues to student's community through IGEN SDG Projects and programs.

We're already seeing a vast improvement in our community is saving power through your innovative ideas. We appreciate your efforts to teaching power saving ideas to all communities. IGEN ideas helps to save the planet earth.

We really appreciate "IGEN SDG Projects" for promoting green energy and saving power.

<https://www.apjabdulkalamfoundation.org>

Message from Board of Advisor



Dr.S.Gomathinayagam

Board of Advisor - IGEN

Consultant & IPMA-A Project Director

**Former Director General - National Institute
of Wind Energy**

With COP26 goals in focus and with multi-pronged interests of over 13 UN SDG goals being linked to Energy access , power and energy usage from renewables contributes to inclusive growth in specially developing countries with regards to achieving set goals for climate mitigation while parallely empowering growth in most SDGs set by United Nations.

Inspite of Pandemic, national and international project efforts of IGEN along with tangible and intangible societal benefits are highly inspiring and encouraging for the youth of India. IGEN projects would go a long way in promoting multi-institutional collaborative research along with student rewards and innovative problem solving capabilities. It would not be exaggeration to state with confidence that the efforts through virtual media with geo-spatially spanned Green initiatives of IGEN is one of it's kind in India.

I am sure the shared knowledge and experience through shared IGEN-media nationally and internationally would be an asset to trigger young minds the much needed awareness in Green Technologies , entrepreneurship options, job prospects pan-India as well as across several developing countries to move towards net-zero energy systems , circular economies with zero waste using IGEN projects.

I heartily congratulate and wish IGEN and team-IGEN along with IGEN-consortium of Institutions best mutual interactions for greater strides in Future.

<https://www.consultingoms.org>

IGEN Priority SDGs 2020

There are 17 SDGs and 169 targets in total.

IGEN initiated the project towards SDG goals target towards energy, carbon footprint, innovation, research on microgrid and smart meters. The selected SDGs for the year 2020 are 7,9,11 and 13. This priority is chosen with respect to the availability of volunteers.



PRIORITY SDG 7

To help and support the public, project initiated for reduction of energy consumption through the energy saving mantras. Eight projects initiated under this SDG targets and indicators.



PRIORITY SDG 9

To innovate and support the community, project initiated to develop new product which will reduce the peak load, cost of meter. g. Five projects initiated under this SDG targets and indicators.



PRIORITY SDG 11

To provide suitable solution for sustainable cities, survey project initiated and provided recommendation to industry and electricity board for performance improvement.



PRIORITY SDG 13

To protect the environment and reduce carbon-dioxide, projects initiated in association with international days. Five projects initiated under this SDG targets and indicators.

IGEN SDG PROJECTS

01 Home Energy Con
ResearchProject

02 Green9mantras Action
Pledge

03 Peak EnergyResearch
Survey

04 21D Energy
Conservation Project

05 Battery Management
Research Survey

06 Earthday Video
Campaign 2020

07 IC Microgrid
Research Survey

08 IGEN World Bicycle
Day Contest2020

09 Smart Meter
Research Survey

10 IGEN Food Waste
Battle Contest 2020

11 IGEN SDG 7.9.13
Badge V1.0

12 IGEN GreenDay
Green Pledge 2020

13 IGEN
Energy99challenge
Pilot Project



HOME ENERGY CON RESEARCH PROJECT



Project Name : **#HOME ENERGY CON RESEARCH PROJECT**

Duration of Project	10/03/2014 to 31/12/2017
Research Partner	Dr MGR Educational and Research Institute
Contributed UN SDG Goals	SDG 7 & 13
Represented Country	India



OBJECTIVE OF THE PROJECT: “Save Power to Reduce Demand Is the Motto behind the Vision 10MW”

The home energy conservation project initiated by IGEN-GREEN9 executed in the name of MGR Vision-10MW. The Objective of Vision 10MW are, to be a part of the group to reduce Carbon dioxide emission by the savings of 10MW Energy and to design and develop home energy conservation ideas to reduce unit consumption at home.

The first pilot project started in the year 2014 to identify the best ideas to save energy at home through the group of students and concluded with outcome report at GREEN9 digital library. It continued with second pilot project in the year 2015 and identified 25 points to save energy at home. The pilot project concluded in the year 2016 by the pilot project 3 and identified 9 ideas to save energy and called as #green9mantras to save one unit per day at home.





GREEN9 ENERGY EFFICIENCY RESEARCH GROUP

EnSav Club
Energy Saving Awareness Club
SAVE ONE UNIT / DAY
Version 1.0

Switch off the equipment after use	Regular cleaning of fan and AC Filter	Optimal temp. setting of AC / Refrigerator
Use of LED Study lamp	Regular defrosting of the Refrigerator	Usage of Heavy equipment in non peak hours
Avoid leaving the equipment in standby mode	Auto cut off mode usage of AC in early morning	Replace the maximum utilized light with a solar LED

Dear Consumers: Apply our nine ideas to save one unit per day in your house

OUTCOME TOWARDS UN SDG GOALS

Completion of 762 audits and submission of 270 recommendations to homes

Energy awareness talks were delivered to reach 25,000 general public

Outcome concluded with 30 research paper publications in Scopus Search Engine and 20 Intermediate report in GREEN9 digital library

Development of #green9mantras to save one unit per day at home which will impact to reduce energy demand at home

**GREEN9MANTRAS
ACTION PLEDGE**



Project Name : **#GREEN9MANTRAS ACTION PLEDGE**

Duration of Project	11/04/2017 to 31/12/2019
Partners	15 ENSAV CLUB Colleges
Contributed UN SDG Goals	SDG 7 & 13
Represented Country	India , Nigeria, Libia



 100% 50 Whr SWITCH OFF THE EQUIPMENT AFTER USE	 100% 100 Whr REGULAR CLEANING OF AC FILTER & USE NATURAL LIGHTING	 25% 1 kW 1.5kW USE STAR RATED EQUIPMENT
 10w 180 Whr 40w USE OF LED STUDY LAMP	 1 kW 250 Whr 1.5kW REGULAR DEFROSTING OF THE REFRIGERATOR	 230v 125 Whr 210v USAGE OF HEAVY EQUIPMENT IN OFF-PEAK HOURS
 100% 50 Whr 60% AVOID LEAVING THE EQUIPMENT IN STANDBY MODE	 100% 350 Whr 70% OPTIMAL TEMPERATURE SETTING & AUTO CUT OFF MODE	 20w 480 Whr 40w REPLACE THE MAXIMUM UTILIZED LIGHT WITH A SOLAR LED

Total Save - 1585 Whr / Day

Dear Consumers: Apply above nine ideas to save one unit per day in your house

Objective of the Project: The objective of the project is to implement #green9mantras @ own home and impacted the energy saving in Units.

#green9mantras – Energy Efficiency Research Group (GREEN9) – Energy Saving and Awareness (EnSAv) Club, a registered society in “The Institution of Green Engineers(IGEN)” research outcome developed o save one unit per day at home by implementing 9 mantras to save energy.

This project initiated to all the students and faculty members of ENSAV Clubs and Partners and advised them to take pledge to implement #green9mantras in action The project resulted started in 2017 and resulted good outcome.

Partners: Dr. M.G.R. Educational & Research Institute , St. Xavier's Catholic College of Engineering , KPR Institute of Engineering and Technology , K. Ramakrishnan College of Engineering , Ponjesly Engineering College , Stella Mary's college of engineering , St Joseph Institute of Technology , Ahalia School of Engineering and Technology, Dr.L.Bullayya College of Engineering, Sri Sairam Engineering College, Velammal Engineering College , Vedavyasa Institute of Technology Raja Rajeswari Engineering College , KPR Institute of Engineering and Technology, Panimalar Engineering College, St Joseph Engineering College, CSI College of Engg, Vivekanantha College of Technology ,Kalaingar Institute of Technology



IGEN SDG PROJECTS OUTCOME REPORT



#green9mantras ENERGY SAVING CAMPAIGN

I SUPPORT THE CAMPAIGN

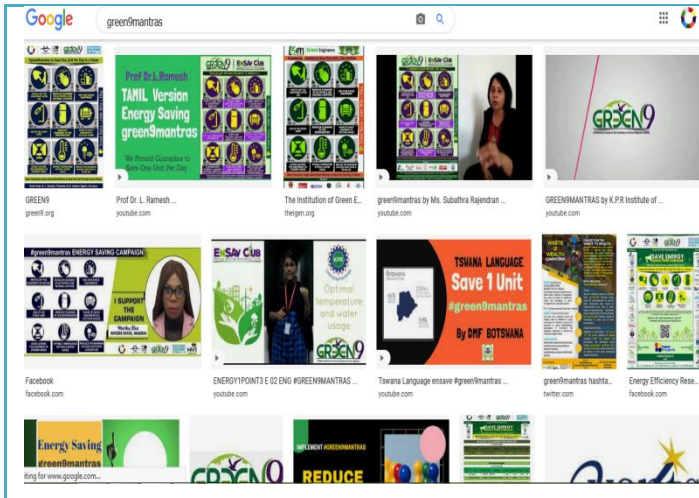
Orezimena Prevail DELTA STATE, NIGERIA

Logos: IGEN, SDG, GREEN9, SUSTAINABLE DEVELOPMENT GOALS 7, HIVE

OUTCOME TOWARDS UN SDG GOALS

- 5500 ensav club students and 350 staff members taken Pledge and implemented #green9mantras
- 25 promotion videos created and telecasted in igensdg plus channel for one unit save promotion
- 75 students tested #green9mantras with 500 homes and reported 95% success rate
- 500000 units saved annually by the participants' who taken pledge which result to reduce 1M CO2 .





IMPACT ASSESSMENT

By search “green9mantras” in Google , reflected 20 videos and various action for public

After promotion of save one unit action impacted @ 21 ensav club with 25K public aware of SDG 7,13

After Project 50 contestants’ transformed as IGEN Volunteer and started working towards Green

Three College adapted green9 mantras and transformed as ENSAVER College

#green9mantras ENERGY SAVING CAMPAIGN

SWITCH OFF THE EQUIPMENT AFTER USE	REGULAR CLEANING OF AC FILTER & USE NATURAL LIGHTING	USE STAR RATED EQUIPMENTS
USE OF LED STUDY LAMP	MONTHLY CLEANING OF THE REFRIGERATOR	USAGE OF HEAVY EQUIPMENTS IN OFF-PEAK HOURS
AVOID LEAVING THE EQUIPMENT IN STANDBY MODE	OPTIMAL TEMPERATURE SETTING & WATER USAGE	REPLACE THE MAXIMUM UTILIZED LIGHT WITH A SOLAR LED


I SUPPORT THE CAMPAIGN

Rumbidzai Chinyemba KWEKWE, ZIMBABWE










Project Implementation Proof @ <https://www.facebook.com/groups/igen.ensavmantras>

**PEAK ENERGY
RESEARCH SURVEY**



Project Name : # PEAK ENERGY RESEARCH SURVEY		
Duration of Project	15/04/2019 to 10/07/2019	
Research Partner	Dr MGR Educational and Research Institute	
Contributed UN SDG Goals	SDG 7,13	
Represented Country	India	

Objective of the Project:

IGEN SDG Research Survey Projects - The objective is to identify the issues related to SDG goals through the research survey from the respective consumers and to provide strong solution, which will help to achieve the targets of UN SDG.

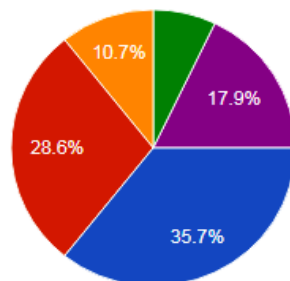
In this regard We are planning to provide a suitable solution for the summer peak load through our research team through questioner "Home Energy-Summer Peak Survey towards UNSDG-7".

This survey link is collecting information about summer peak energy for home consumers. This survey will help IGEN-GREEN9 to come up with some recommendations to resolve this summer peak demand.

IGEN SDG PROJECTS
Home Energy - Summer Peak Survey towards UNSDG-7
 7 AFFORDABLE AND CLEAN ENERGY
 We request all the Residence to submit required answer for the survey to complete the research work
 QR-Code Google Link
 https://tinyurl.com/yxe7m9um
 Any Queries Please Contact
 PROJECT HEAD: P.KANAKARAJ
 EMAIL: PKRAJPS@GMAIL.COM
 MOBILE: 9095353643
 www.theigen.org

3. How many AC's available in your home?

168 responses

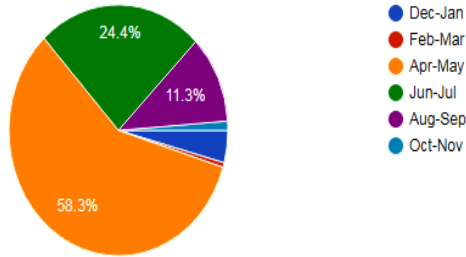


- One
- Two
- Three
- More than Three
- Nil



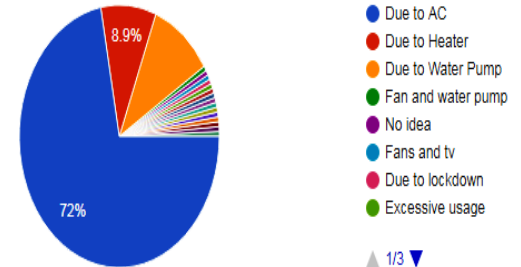
1. In which month, did you pay the highest electricity bill for your home?

168 responses



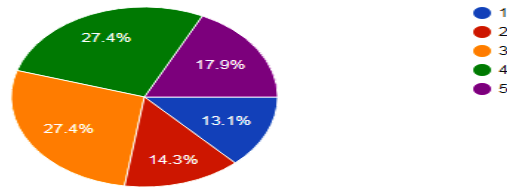
2. Choose the top-most reasons for paying the highest electricity bill for your home.

168 responses



8. How did you rate power interruption which will disturb your sleep during summer night? (Before Covid-19) (Here, 1 - "Lot of Disturbance" and 5 - "No Disturbance")

168 responses



9. Can you suggest any idea for reducing peak demand in summer?

125 responses

- when it is cool so that disturbance will be less
- Less consumption
- Take sleeping tablets
- use of AC only in need



OUTCOME TOWARDS UN SDG GOALS

168 group response collected from the identified spot of home network towards peak energy

72% suggested, AC is the problem for peak energy during the summer and night usage

Three solutions identified to resolve the peak energy management and tested in simulation

A device innovated and applied for Patent through IGEN, which will help to reduce the peak energy

**21D ENERGY
CONSERVATION
PROJECT**



IGEN SDG PROJECTS OUTCOME REPORT

Project Name : **#21D ENERGY CONSERVATION PROJECT**

Duration of Project	11/12/2019 to 31/12/2019
Partners	21 Academic and Industry Organisers
Contributed UN SDG Goals	SDG 7 & 13
Represented Country	India and Canada



Objective of the Project: Energy Efficiency Research Group (GREEN9) – Energy Saving and Awareness (EnSAV) Club, a registered society in “The Institution of Green Engineers(IGEN)”, successfully celebrated 21 Days (11th Dec 2019 to 31st Dec 2019) event on National Energy Conservation GREEN9 9Mantras to “Save One Unit/Day” via Promotional Campaign, which insist the public to conserve Energy in association with 25 partners. As per instructions, the organizers strongly create an awareness on Energy Conservation through, teaching the residents, Public, Village Residents “How they Can Save One Unit /Day” with the help of 9Mantras. The Campaign starts from Kanyakumari and travel through Visakhapatnam, Palakkad, Canada, Chennai, Trichy, Calicut, Coimbatore, Bangalore, Hyderabad and end in Chennai. The Campaign was successfully executed with support of Partners and the active EnSAV Clubs in the Institutions.



Registered Society in The Institution of Green Engineers



Energy Saving Awareness Club
A Unit of Energy Efficiency Research Group, under IGEN

The Institution of Green Engineers (IGEN)
Presents

21 Days National Energy Conservation Celebration

(11th - 31st Dec. 2019)

(9 Mantras - Save One Unit/day Awareness Campaign)

Think Energy

Think Future

29th Dec Awareness at Kany. to Ngl. Marathon by Assk Productions

30th Dec EnSAV Painting Competition St Joseph Institute of Technology

31st Dec EnSAV at Residential Flat by Pudur Govt. School

Partners



Organising Partners

Organising Secretary- Dr. M. Beno, Vice Chair, GREEN9@ 9443993659
Event Manager - Er. Swamy, Head EnSAV Club @9487960595
Activity Manager - Abhishek Arya, IEI TVLC @8838566419

@ www.green9.org
@ www.icitvlc.org

Dr. L. Ramesh, FIE, Chairman

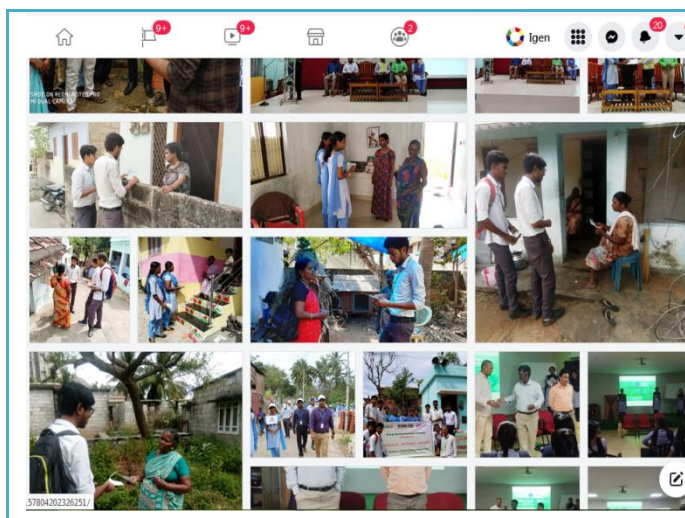
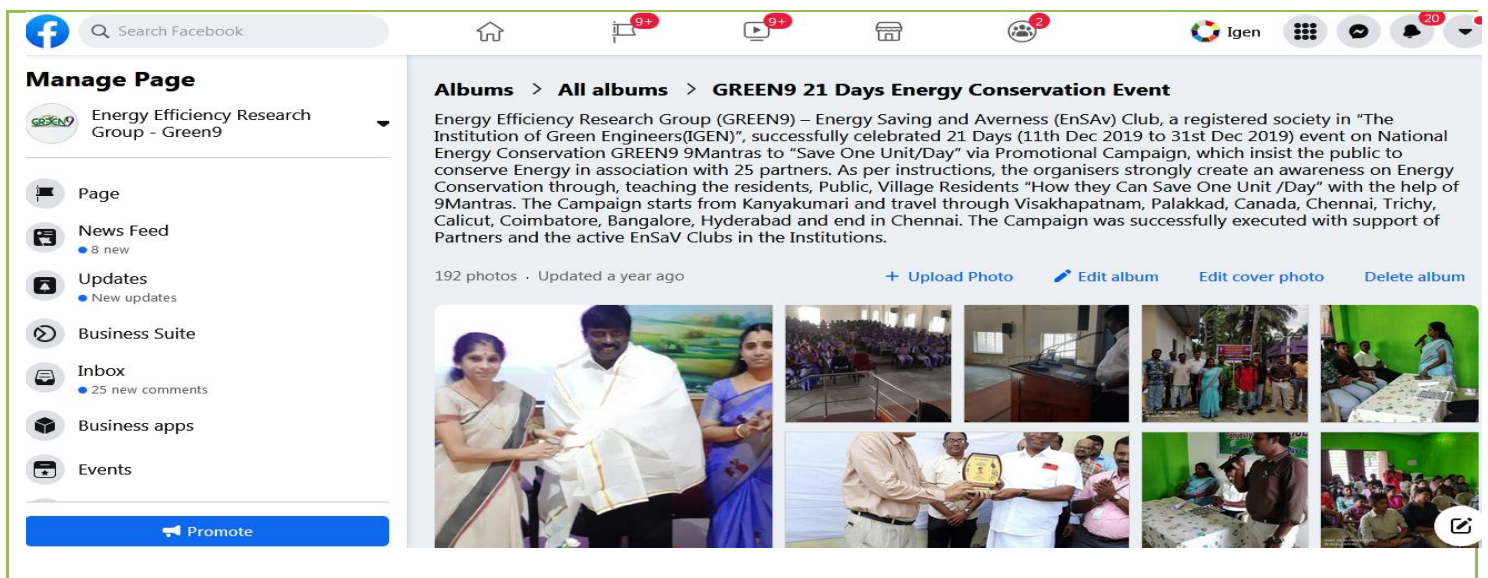
Invited By

Er. Hudson Egbert, Secretary





Partners: Dr. M.G.R. Educational & Research Institute , St. Xavier's Catholic College of Engineering , KPR Institute of Engineering and Technology , K. Ramakrishnan College of Engineering , Ponjesly Engineering College , Stella Mary's college of engineering , St Joseph Institute of Technology , Ahalia School of Engineering and Technology, Dr.L.Bullayya College of Engineering, Sri Sairam Engineering College Velammal Engineering College , Vedavyasa Institute of Technology Raja Rajeswari Engineering College , The Institution of Engineers India – Tiruvallur Local Centre , Agatiam Charitable Trust, Moral Resource & Research Foundation, Ciena Corporation Canada and ASSK Productions



OUTCOME TOWARDS UN SDG GOALS

2000 Public were trained, how they can save one unit in their House , 500 LED Bulbs were distributed with direct energy saving of 45,000 Units

Around 1Lakh people campaigned through WhatsApp, 2Lakh people campaigned through Face Book ,1000 School Children's were informed about 9 Mantras

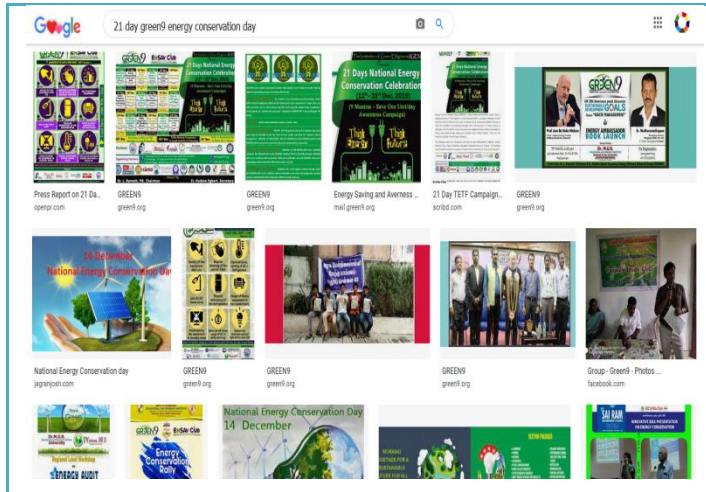
500 Industry members were informed about the 9 Mantras, 10 Village members were created awareness on the importance and Need of Saving Energy

25000 participants committed and agreed to implement the Energy Save Concepts in their House





IGEN SDG PROJECTS OUTCOME REPORT



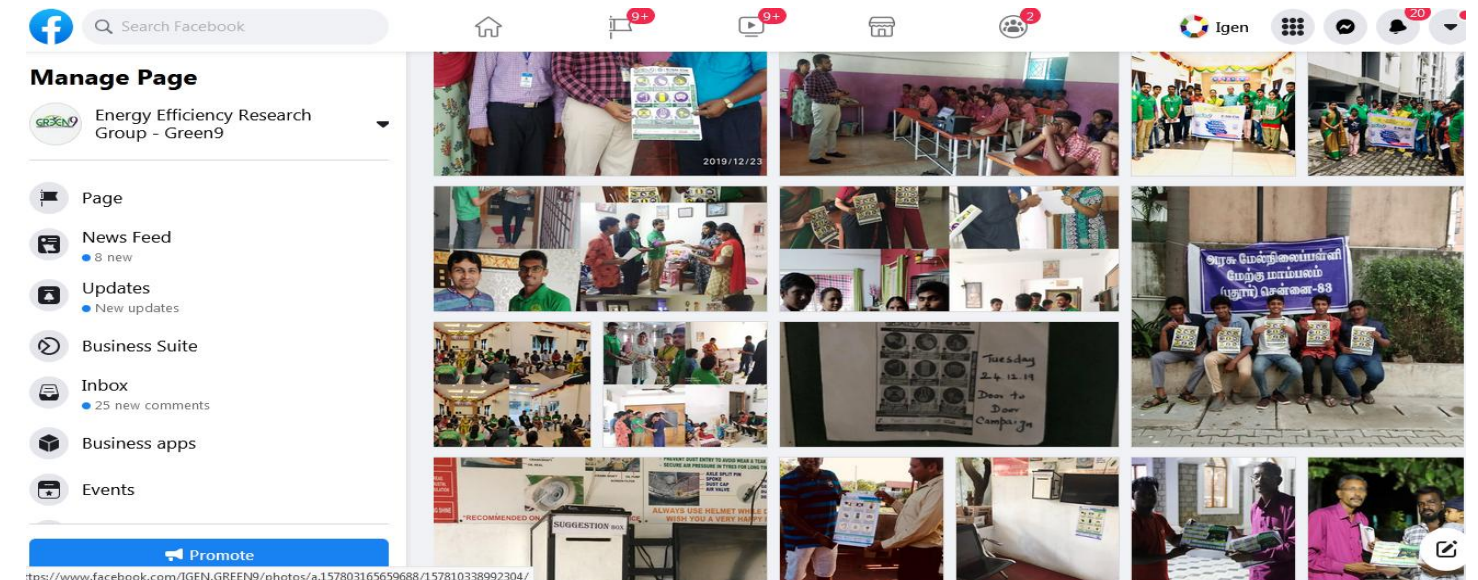
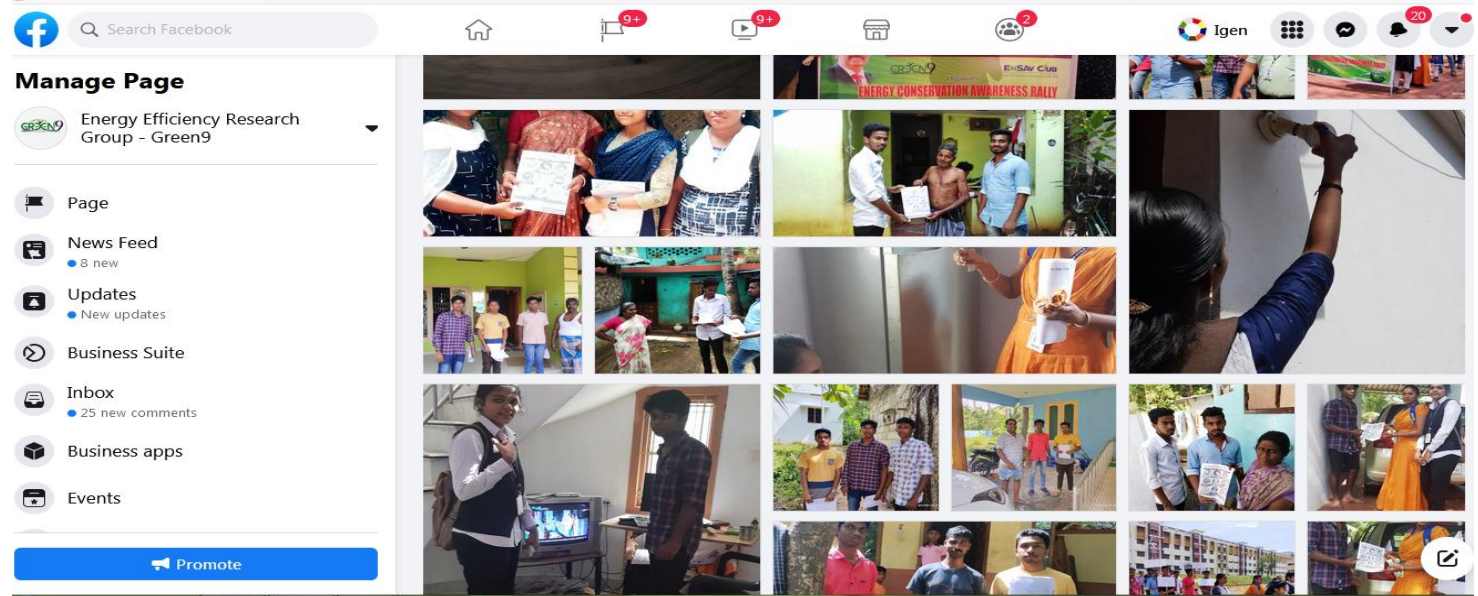
IMPACT ASSESSMENT

By search "green9 energy conservation projects" in Google , reflected 20 action for public

After promotion of SDG impacted @ 21 academic and industry institutions 25K public aware of SDG 7,13

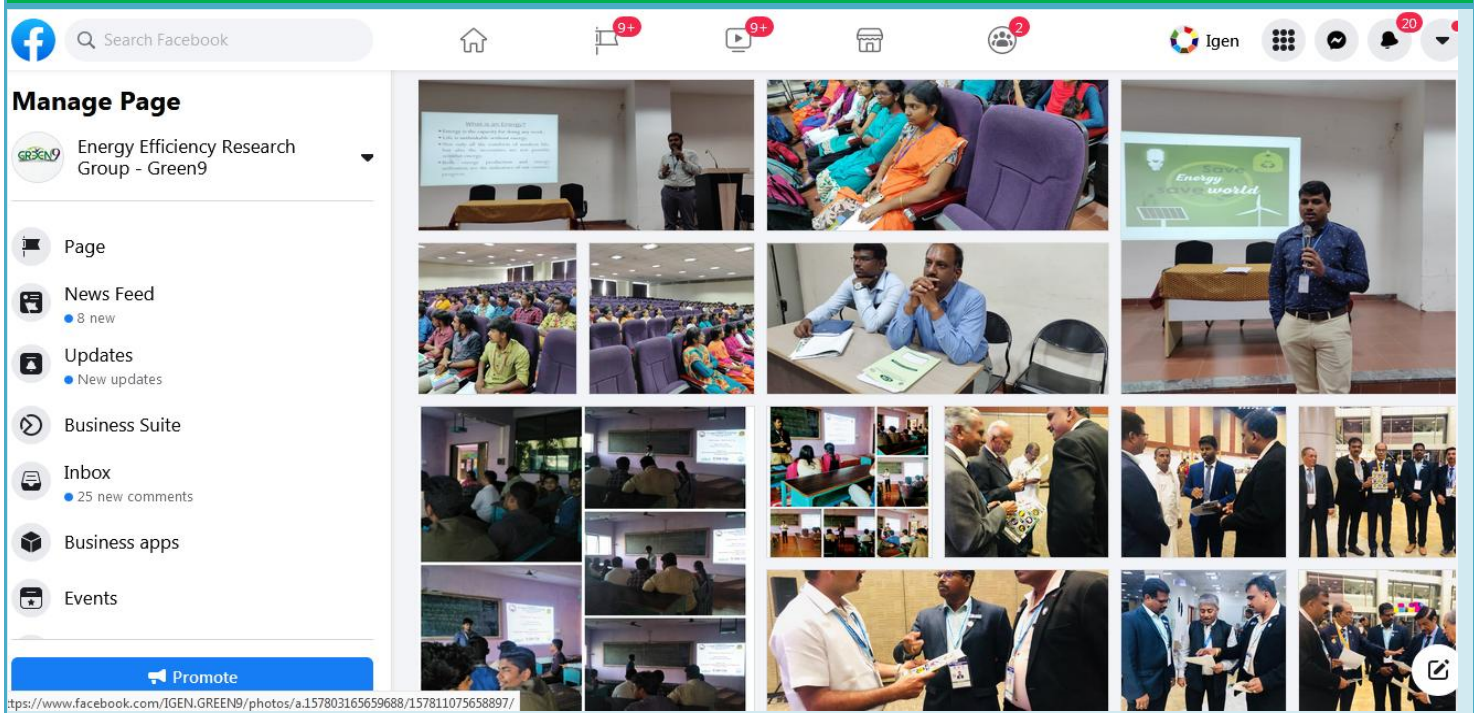
After Project 35 contestants' transformed as IGEN Volunteer and started working towards Green

Three Villages adapted green9 mantras and transformed as ENSAVER village





ENERGY CONSERVATION DAY CONCLUSION



Celebrated, Energy Awareness Campaign with GREEN9 “Think Energy - Think Future Campaign” final day at by Govt Higher Secondary School West Mambalam [Puthur] on 31th December 2019 at Apartments in West Saidpet. Mr.Sathyamoorthy Secretary of Apartment welcomes the members from School EnSaV Club. Mrs.Vennila, Govt higher secondary school West Mambalam felicitated the members with kind words. Dr L.Ramesh , Dean Dr MGR ERI and Chairman GREEN9 explained the 9mantras to save one unit per day to the school student volunteers from West Mambalam. Five volunteer teams were formed to train the residents in Block One to ten. Each team was headed with the member from the Apartments Association Committee.

Project Implementation Proof @

https://www.facebook.com/IGEN.GREEN9/photos/?tab=album&album_id=157803165659688

BATTERY MANAGEMENT RESEARCH SURVEY



Project Name : **#BATTERY MANAGEMENT RESEARCH SURVEY**

Duration of Project	2/01/2020 to 25/03/2020
Research Partner	Dr MGR Educational and Research Institute
Contributed UN SDG Goals	SDG 7,11
Represented Country	India



Objective of the Project:

IGEN SDG Research Survey Projects - The objective is to identify the issues related to SDG goals through the research survey from the respective consumers and to provide strong solution, which will help to achieve the targets of UN SDG.

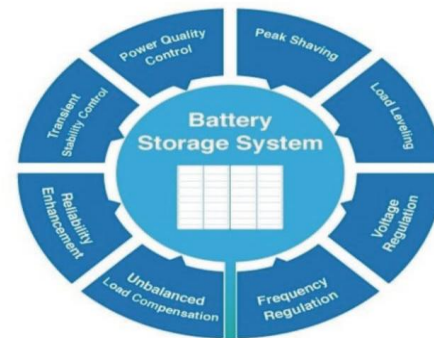
In this regard we are planning to find out the solution for “Wind energy battery management system” with the help of survey findings from “A Survey on coordination between Battery Energy Storage Systems towards UNSDG-11”.

This survey will help The Institution of Green Engineers (IGEN) - GREEN9 to come up with some recommendations to resolve the problems faced during coordination of Battery Energy Storage Systems to ensure reliable operation of Micro Grid.



IGEN SDG PROJECTS

A Survey on Coordination between Battery Energy storage Systems



Request Industry Personnel & Experts working in the area of Battery Energy Storage Systems, to complete the survey and help us collect data which can be used in effective Researchwork.

QR-Code

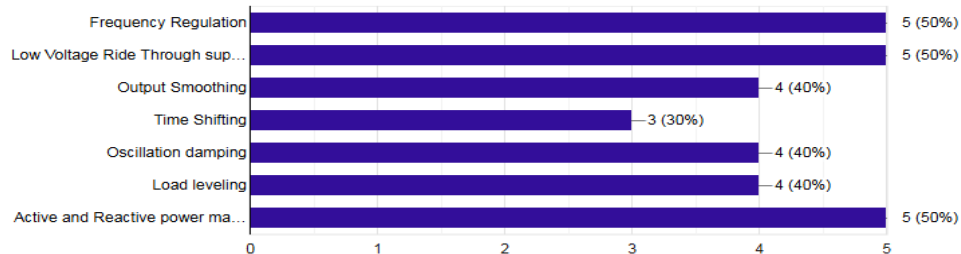


For any queries, Kindly contact
Project Head - B. Sravan Kumar
bsravan2193@gmail.com
Mob: +91-9642883037
www.theigen.org

Google link
<https://tinyurl.com/y5hut7mq>

Which of the following functions were performed by Battery Energy Storage Systems

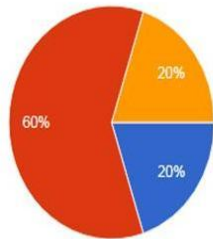
10 responses





which type of strategy was used for coordinating Battery Storage Systems

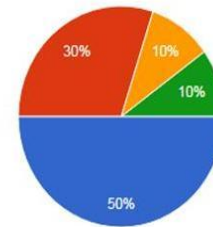
10 responses



- COORDINATION THROUGH A CENTRAL CONTROLLER
- COORDINATION THROUGH A DISTRIBUTED CONTROL STRATEGY
- Option 3

What is the Efficiency of Battery Energy Storage Systems

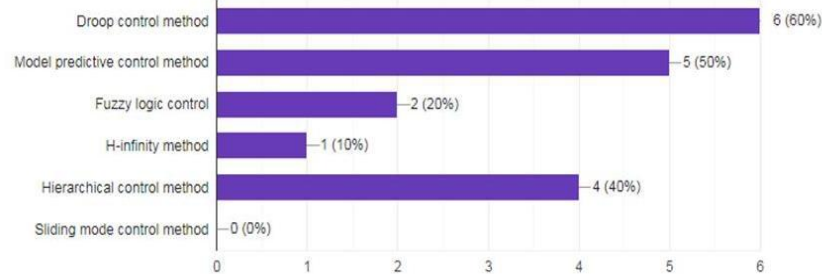
10 responses



- >90%
- >80%
- >70%
- >60%

Which type of control strategies were used for frequency regulation by Battery Energy Storage Systems

10 responses



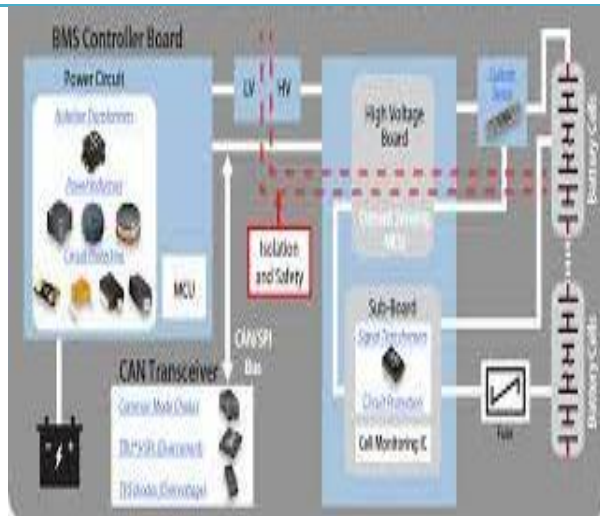
OUTCOME TOWARDS UN SDG GOALS

110 response collected from the company people who working for battery management system

60% company suggested that they are using droop controller for controlling the battery

Two solutions identified to resolve the battery management problem through simulation

Best practice of battery management suggested and in action to communicate to all company, which provide optimal power flow



**EARTHDAY ENSAY
VIDEO CAMPAIGN 2020**



Project Name : #EARTHDAY VIDEO CAMPAIGN 2020		
Duration of Project	16/04/2020 to 30/08/2020	
Partners	27 Partners across the World represented below	
Contributed UN SDG Goals	SDG 7 and SDG 13	
Represented Country	India, Liberia, Botswana, Nigeria, Cameroon, Afghanistan, Somalia and Zambia	

Objective of the Project:

In view of 50th Earth Day Celebration, GREEN9 affiliated to The Institution of Green Engineers (IGEN), working towards SDG 7&13, in partnering with 27 organizations across the globe executed 5 months CSR project titled “ **Green9 -Save Energy Digital Video Campaign** “ which was indexed by 50th Earth Day.

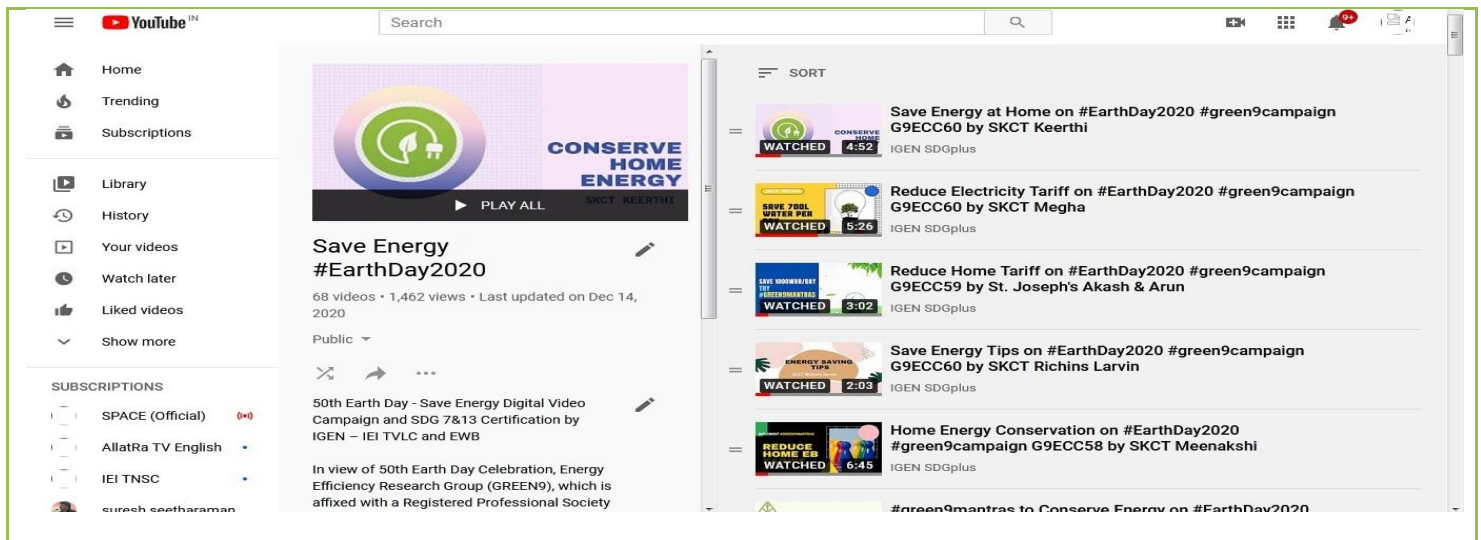
The Objective of this campaign is to promote #green9mantras to save one unit per day in each home and to reach 20million people across the world.

Dr. Ravichandran, Immediate past Director Operation of TANTRANSCO launched Green9 Digital Save Energy Campaign on 16th April, 9.16pm through the digital platform in witness with partners..





Partners: The APJ Abdul Kalam International Foundation, The Institution of Engineers (India) TVLC, Youth Center for Empowerment (YOCE), Dr.M.G.R Educational and Research Institute, David Mogoma Foundation (DMF), Engineer Without Boarder (EWB) Chennai Chapter, Hive Edutainment, Every day Innovators, Nallor Vattam, Lions Club International - District 324-A5, Karuna International, Chhattiashgarh Prachar Evam Vikas Sansthan, Edu Create, Moral Resource & Research Foundation, Power Projects India, Young Generation Engineering Services, Rotary International Mogappair Club 3232, Etreasure house foundation int'l, Junior Chamber International (JCI) -Tiruvannamalai Deepam, Agatiam Charitable Trust, Somali Nature & Environmental Care (SONEC), Meekireeti Safest Technology India, Foundation for Safety Health and Environment, Kolkata Society for Cultural Heritage, Aclude Foundation and Natural Educational Environmental Agricultural Development Society



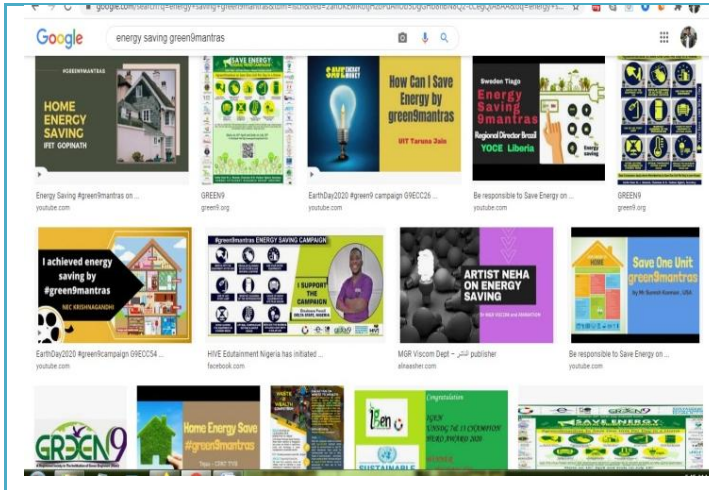
OUTCOME TOWARDS UN SDG GOALS

68 Energy Saving online Videos dedicated to public

7570 home accepted to implement #green9mantras to save one unit per day

20million people reached about the energy saving through Youtube

1million unit saved through the project which reduce 1.5million co2



IMPACT ASSESSMENT

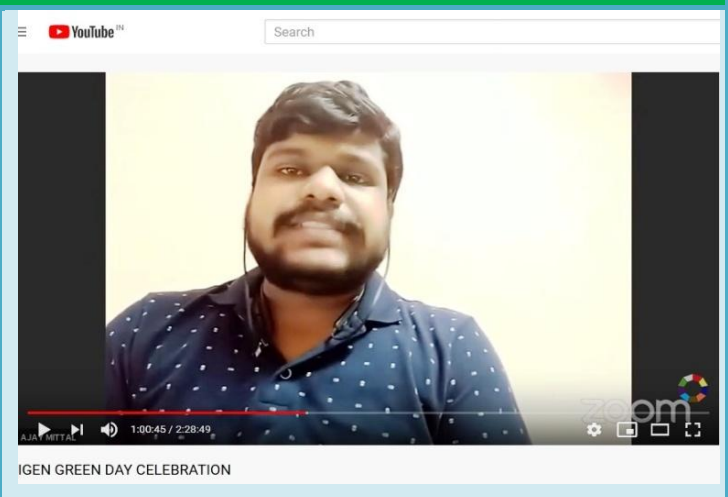
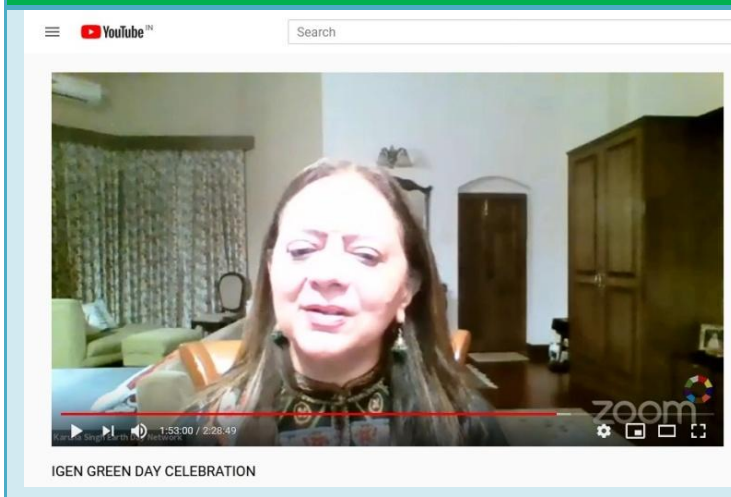
By search “energy saving green9mantras” in Google , reflected 20 videos for public

Project indexed in www.earthday.org website which reflects global community

After Project 15 contestants’ transformed as IGEN Volunteer and started working towards Green

EarthDay Playlist videos was promoted by 10 private websites across the globe

IGEN EARTHDAY SAVE ENERGY CAMPAIGN VALEDICTORY 2020



The “**Green9 -Save Energy Digital Video Campaign** “ come to the conclusion through the Valedictory ceremony to appreciate the Award Winners and Medal Winners.

Ms. Karuna Singh, Regional Director Earth Day India presented “UN SDG 7&13 Campaign Hero Award Winners 2020” to the top 3 contestants’, who reached more than 10,000 views in promotion. **Er. Ajaay Mittal - Director, Climate Change Programs Earth Day** presented “ENERGY CHAMPION Award 2020 Winners” to the top 5 contestants’, who reached more than 5000 views in promotion.

Dr G.Pandian, Principal Head IGEN presented “ EARTH DAY 50 ENSAVER AWARD 2020 Winners” to 21 contestants’, who reached more than 1000 views in promotion.



Dr L.Ramesh, President IGEN presented “Mr.SDG 7 ENSAVER Title Badge Winners” to the 31 contestants’, who reached more than 500 views in IGEN SDGplus Youtube Channel.

All the members mention special appreciation to the top of top contestants’, **Yoga Balaji**, PSG Institute of Technological and Applied Research , who reached 19,202 views for his energy saving Chota Bheem Video.

Project Implementation Proof @ <https://www.facebook.com/groups/igen.sdgprojects>



IC MICROGRID RESEARCH SURVEY



Project Name : **# IC MICROGRID RESEARCH SURVEY**

Duration of Project	25/05/2020 to 25/17/2020
Research Partner	Dr MGR Educational and Research Institute
Contributed UN SDG Goals	SDG 7,13
Represented Country	India



Objective of the Project:

IGEN SDG Research Survey Projects - The objective is to identify the issues related to SDG goals through the research survey from the respective consumers and to provide strong solution, which will help to achieve the targets of UN SDG.

In this regard the team, planning to collect data on the challenges faced during Interconnection of Microgrids through our research team through the questioner "A survey on Interconnected Microgrids towards UNSDG-7".

This survey outcome will help IGEN - GREEN9 to come up with some recommendations to resolve the problems faced during interconnecting the Microgrids to ensure reliable flow of electrical power to the consumers.

Request industry personnel & expertise working in the area of interconnected microgrids, to complete the survey & help us collect data which can be used in effective research work.

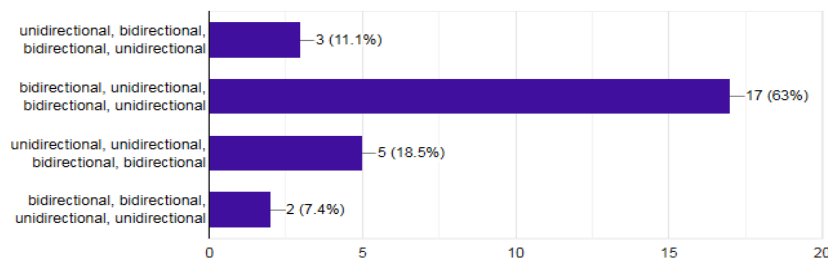
For any queries kindly contact
Project Head- Ranjit Singh
rsa.ranjit@gmail.com
Mo. - 9632312930

www.theigen.org

Google link
<https://tinyurl.com/y2zovso9>

The converters used for Battery, PV, ultra capacitor and PMSG wind system in a DC Microgrid respectively are

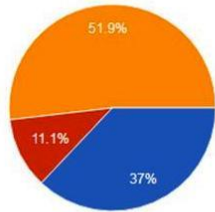
27 responses





Whether technology used for interconnecting microgrids is?

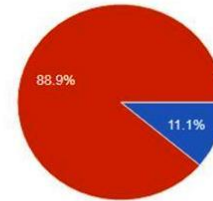
27 responses



- Working fine
- creating regular faults
- creating minor faults
- Not working fine

The flow of power and information in interconnected Microgrids in your company is characterized by which of the following:

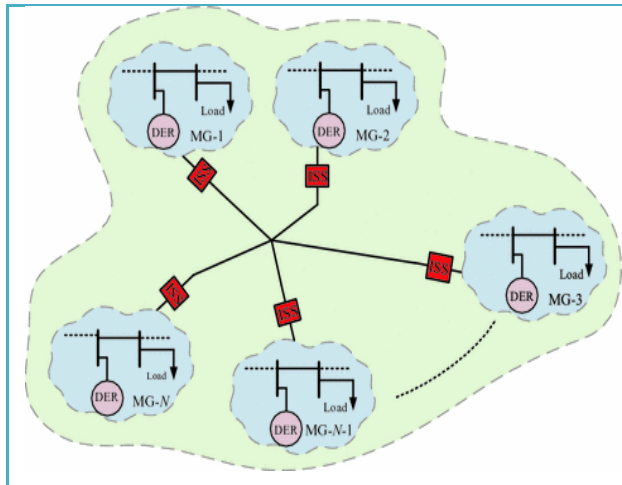
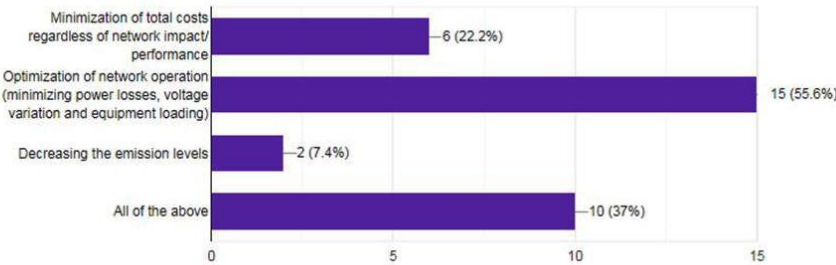
27 responses



- One way
- Two way

What is the main technical operation objective of the microgrid used in your company

27 responses



OUTCOME TOWARDS UN SDG GOALS

150 members responded who worked in interconnected MG and review from 25 top companies

63% used bidirectional converters for the control of interconnected MG

Three solutions suggested for best operation of IC MG with optimal control and monitoring

Best practice in IC MG concluded with the survey report and presented to all needed IC MG companies

**IGEN WORLD BICYCLE
DAY CONTEST 2020**



Project Name : #IGEN WORLD BICYCLE DAY CONTEST 2020		
Duration of Project	03/06/2020 to 31/08/2020	
Contributed UN SDG Goals	SDG 13	
Represented Country	India	

Objective of the Project:

The objective of the contest is to promote the usage of cycling, which leads to reduce Co2 Emission.

IGEN Mission for Emission towards UN SDG 13, Cycle for Mother Earth and Reduce Co2 Emission

Challenge to Save CO2: The Participants can fix their target to reduce CO2 and start the Challenge from the day registered.

The contest started with 55 participants and ended by 25 participants with fruitful outcome.

THE INSTITUTION OF GREEN ENGINEERS (IGEN)

WORLD BICYCLE DAY

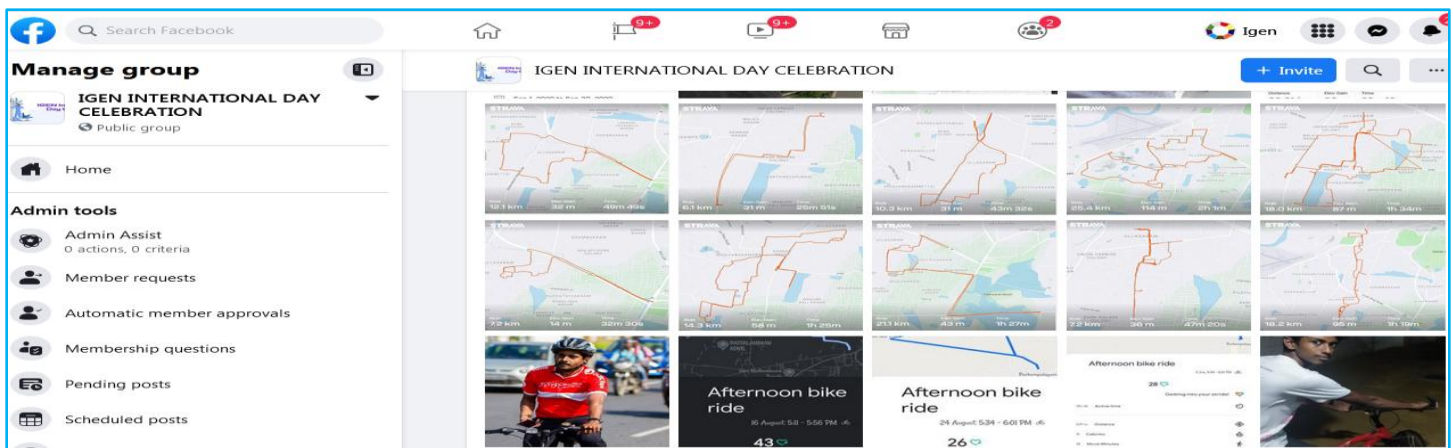
IGEN Mission for Emission towards UN SDG 13
CYCLE FOR MOTHER EARTH & REDUCE CO2 EMISSIONS
EVENT OPEN TO ALL RIDERS ON BICYCLES

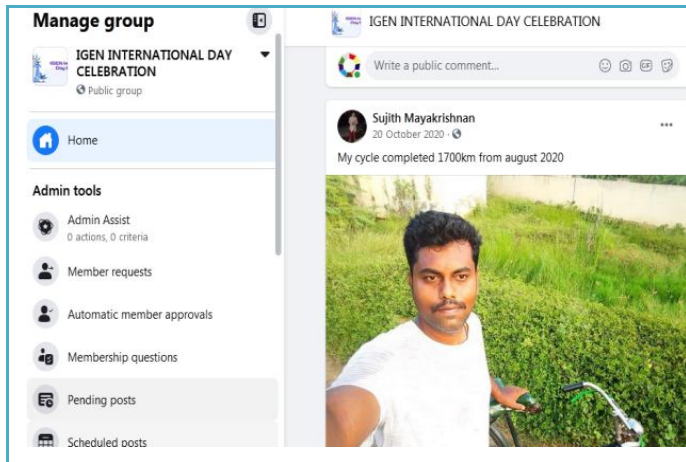
EACH 7 KM BY BICYCLE WILL SAVE AN EMISSION OF 1 KILOGRAM OF CO2 AS COMPARED TO THE SAME DISTANCE COVERED BY CAR

Starts from: June 03, 2020

FOR REGISTRATION:
[HTTP://THEIGEN.ORG/INTERNATIONALDAY.HTML](http://theigen.org/internationalday.html)

Contact Event Head: Er.Kalyan @+91-9848194741





OUTCOME TOWARDS UN SDG GOALS

25 participants driven cycle for three months and reached 25000KM through roads.

SDG 13 Climate Action Awareness created and 1 lakh people started action towards CO2

Half million people reached about the importance of reducing CO2

2500kg of CO2 reduced through the outcome



IMPACT ASSESSMENT

By search "bicycle day" in Google , reflected 10 action

With the outcome , IGEN initiated Bi Cycle Club and planning to start project "Cycle for Climate Action"

After Project 10 contestants' transformed as IGEN Volunteer and started working towards Green

After project completion, 10 project contestants' changed their mode of transport 50% through cycle

BI CYCLE DAY CONTEST VALEDICTORY 2020



The "IGEN WORLD BICYCLE DAY CONTEST 2020" come to the conclusion through the Valedictory ceremony to appreciate the Award Winners and Medal Winners on 22 Oct 2020.

Mr Ajay Mittal, Regional Director Earth Day India presented the project completion certificate and presented SDG Climate Action Award Winners and CO2 Medal Winners.

Project Implementation Proof @ <https://www.facebook.com/groups/igen.internationalday>

SMART METER RESEARCH SURVEY



Project Name : # SMART METER RESEARCH SURVEY	
Duration of Project	18/08/2020 to 30/11/2020
Research Partner	Dr MGR Educational and Research Institute
Contributed UN SDG Goals	SDG 7,11, 12, 13
Represented Country	India



Objective of the Project:

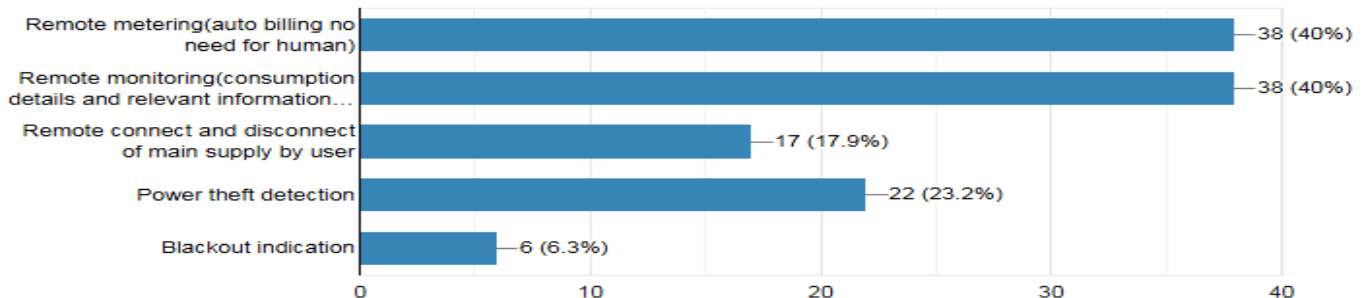
IGEN SDG Research Survey Projects - The objective is to identify the issues related to SDG goals through the research survey from the respective consumers and to provide strong solution, which will help to achieve the targets of UN SDG.

In this regard we are planning to find out the solution for Smart Meter implementation through the questioner “Survey on Acceptance of Network Enabled Smart Energy Meter(NESEM) towards UNSDG-7”.

This survey will help IGEN - GREEN9 to come up with some recommendations to resolve the problems faced during installation of smart energy meter.

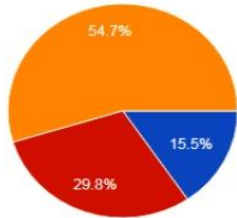
What are the functionalities present in your smart metre? please choose anyone /all responses if suitable

95 responses



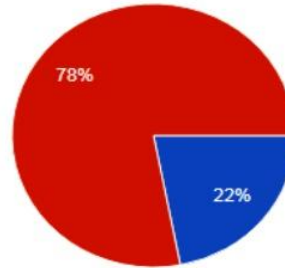


...monitor power consumption at home. And also inform the consumers about the meters they used and how much they need to pay on daily basis. This meter is the replacement of old meter." Before this explanation, had you heard of



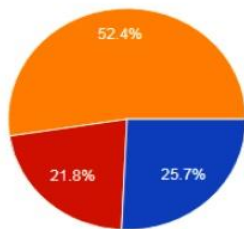
- Yes, I heard and also I have in my home
- Yes, I heard but I don't have in my home
- No, I don't know what it is

...smart meter installed in your home?



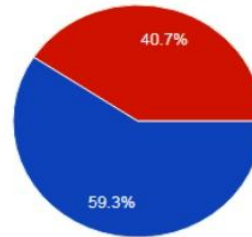
- Analog meter
- Digital meter

...a new centralized meter called NESEM (Network Enable Smart Energy Meter) which can remotely monitor a group of houses (estimated count-100) energy for smart metering without replacing old meter". After this explanation, what is your preference for smart metering?

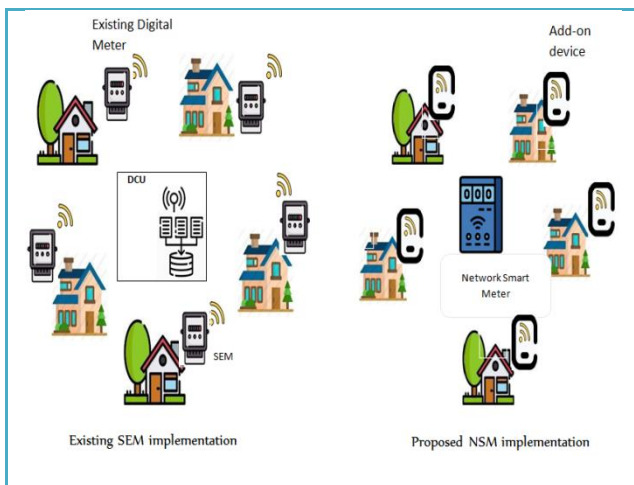


- Individual new smart meters for houses with replacing old
- Proposed NESEM for group without replacing old digital
- No idea

...the city Board plans to change all installed electricity meters to smart meters at a cost of 4000 to 5000 Rs. for single-phase & 8000 to 9000 Rs. for three-phase. Do you agree with it?



- Yes
- No



OUTCOME TOWARDS UN SDG GOALS

2500 responses collected from the identified spot of home network towards usage of smart meter

75% customer interested to adopt proposed NESAM, without replacing the existing meter

80% customers are with digital meter, so it is easy to implement proposed project

A device innovated and applied for Patent through IGEN, which will help to reduce the energy consumption

**IGEN FOOD WASTE
BATTLE CONTEST 2020**



Project Name : #IGEN FOOD WASTE BATTLE CONTEST 2020	
Duration of Project	29/09/2020 to 15/01/2021
In Aid of	UN- International Day of Awareness on Food Loss and Waste Reduction
Contributed UN SDG Goals	SDG 2,7 & 12
Represented Country	India , Srilanka



Objective of the Project:

The Institution of Green Engineers (IGEN) has come up with the mission to reduce CO2 through food waste. In aid of UN- International Day of Awareness on Food Loss and Waste Reduction, 29 September, the IGEN council decided to celebrate the day with the campaign titled "IGEN Food Waste Battle Contest 2020". We are happy to note that, Indian Federation of Culinary Associations partnered with IGEN to execute the event globally.

Another milestone is that, the project associated with The Food and Agriculture Organization (FAO) of the United Nations

The Objective of the campaign is to reduce greenhouse gas emission through 500 dedicated contestants' by "Zero Food Wastage Pledge" and record the implementation action for 99 days through the event titled "IGEN Food Waste Battle Contest 2020".

The Institution of Green Engineers

in aid of UN- International Day of Awareness on Food Loss and Waste Reduction, 29 September

INDIAN FEDERATION OF CULINARY ASSOCIATIONS
National Member of World Association of Chefs Societies

IGEN FOOD WASTE BATTLE CONTEST 2020

Project Associated @
Food and Agriculture Organization of the United Nations

PROJECT INAUGURATED BY THE CHIEF GUESTS

Chef Manjit Singh Gill
Founder President of IFCA

Dr. Chef Soundararajan
Founder General Secretary of IFCA

Register @ www.theigen.org
Contact @ 9441882425

Made with PosterMyNet.com





IGEN SDG PROJECTS OUTCOME REPORT

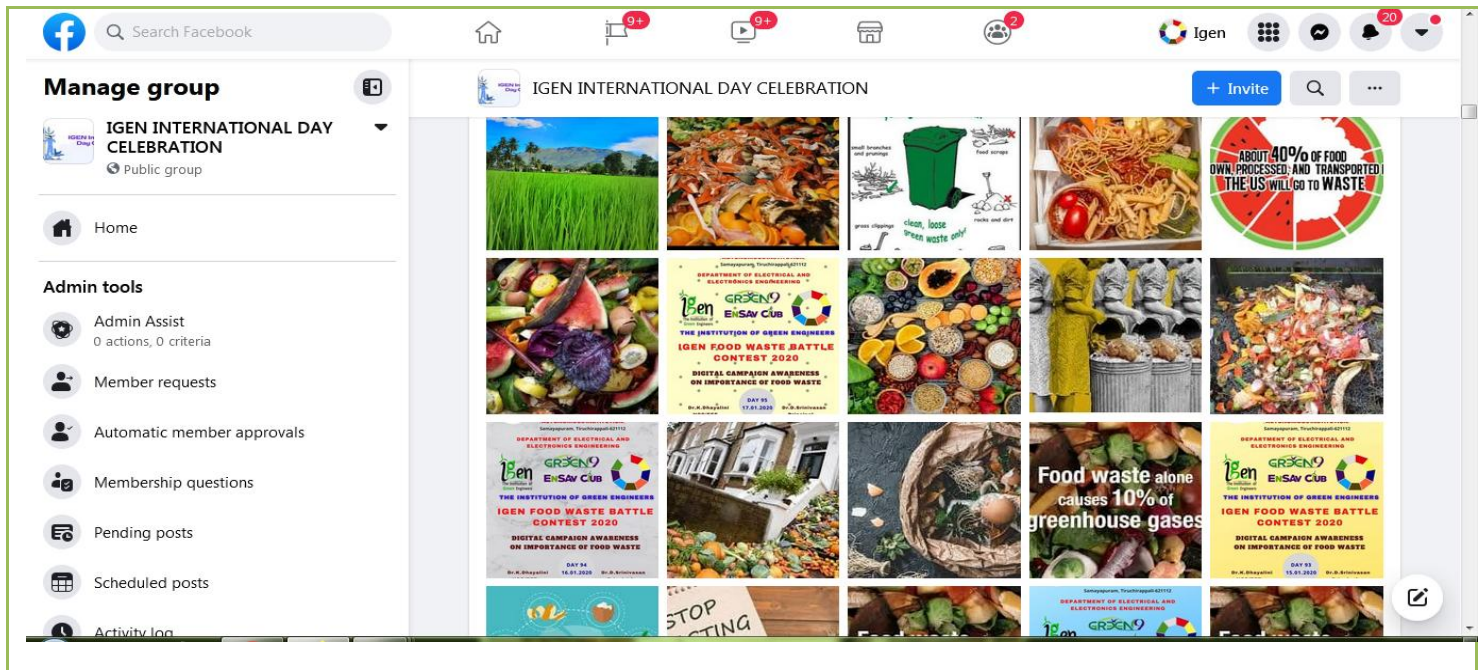
Partners: The Food and Agriculture Organization (FAO) of the United Nations and Indian Federation of Culinary Associations.



Food and Agriculture Organization of the United Nations



INDIAN FEDERATION OF CULINARY ASSOCIATIONS
National Member of World Association of Chefs Societies



OUTCOME TOWARDS UN SDG GOALS

75 registered participants, 60 started the project and 25 completed the full action project

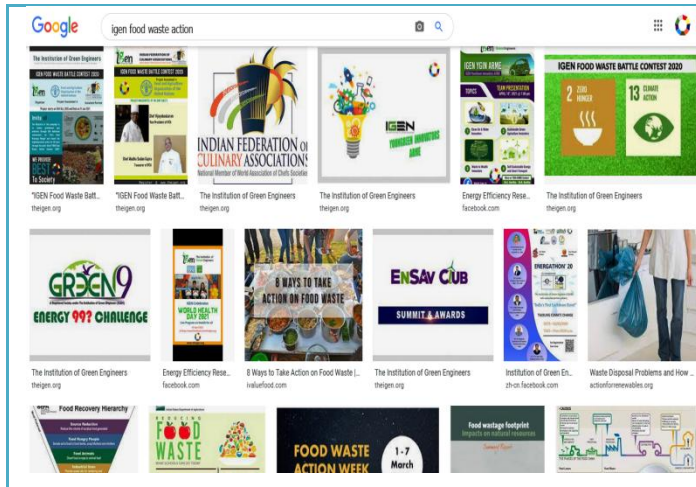
294 post updated in the FB group on creating awareness on SDG 2,7,12

25 Hotels, 10 Institutions and 7 hostels implemented action towards food wastage

1000 school students taken pledge to reduce food waste and 50 students in continuous action



IGEN SDG PROJECTS OUTCOME REPORT



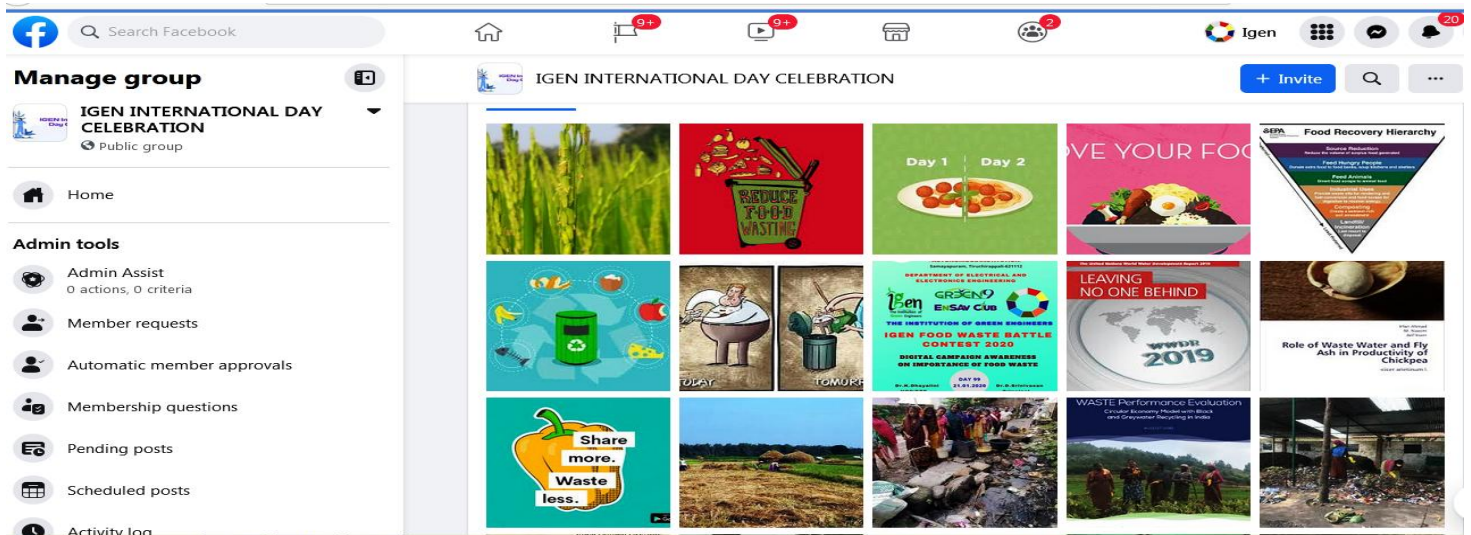
IMPACT ASSESSMENT

By search "igen food waste" in Google , reflected 10 action for public

After promotion of SDG impacted @ 15 hotels to achieve 0% food waste for last three months.

After Project 10 contestants' transformed as IGEN Volunteer and started working towards Green

YGIN Arme kids started Waste Management Club to reduce waste



Project Implementation Proof @ <https://www.facebook.com/groups/igen.internationalday>



IGEN SDG 7.9.13
BADGE V1.0



Project Name : #IGEN SDG 7.9.13 BADGE V1.0		
Duration of Project	15/10/2020 to 15/01/2021 (3 Month)	
Contributed UN SDG Goals	SDG 7,9,13	
Represented Country	India	

Objective of the Project:

The outcome of IGEN GREEN9 SDG Conclave 2020, has given 100 Volunteers registered for IGEN SDG 7,9,13 Badge V1.0.

The objective of IGEN SDG 7,9,13 Badge V1.0 is to implement the awareness or implementation of project on SDG 7,9,13 within 99 Days"

Happy that project started on birthday of our Missile Man of India, Dr.A.P.J Abdul Kalam ,15th Oct 2020 and the project will be live thereafter for 99 days.

The team published the outcome of project on each 11th days from 15th Oct 2020 and completed the publication on 99th day.

THE INSTITUTION OF GREEN ENGINEERS(IGEN)
IGEN SDG PROJECTS
Presents
IGEN SDG 7,9,13 BADGE V 1.0

7 AFFORDABLE AND CLEAN ENERGY 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 13 CLIMATE ACTION

"The objective of IGEN SDG 7,9,13 Badge V 1.0 is to identify the volunteer and implement the awareness or implementation of project on SDG 7,9,13 within 99 Days"

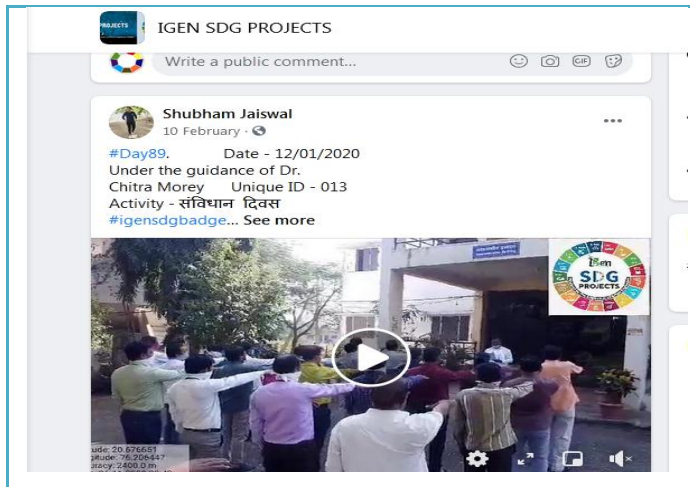
Project Starts on Birthday of Dr. A. P. J. Abdul Kalam 15th Oct 2020

Partners:

Dr MGR Educational and Research Institute, KPR Institute of Engineering and Technology, St Xavier Catholic College of Engineering, Ahalia School of Engineering and Technology, Stella Mary's College of Engineering, Sri Sairam Engineering College, Panimalar Engineering College, of St. Joseph's College of Engineering, Velammal Engineering College, St. Joseph's Institute of Technology, CMR Institute of Technology, PONJESLY College of Engineering,



IGEN SDG PROJECTS OUTCOME REPORT



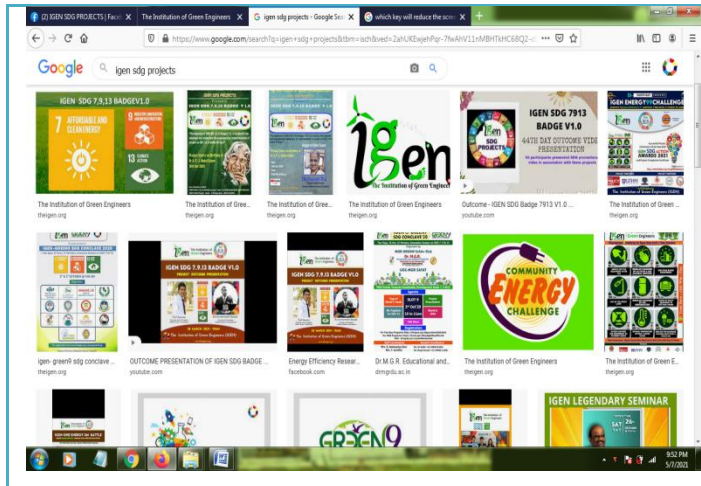
OUTCOME TOWARDS UN SDG GOALS

105 registered participants, 55 stated the project and 26 completed the full action project

1708 post updated in the FB group on creating awareness on SDG 7,9,13

100KW energy saved and 1200kg of CO2 reduce through the implementation of project

1200 public implemented and got result by SDG action and 175 trees planted by participants



IMPACT ASSESSMENT

By search "igen sdg projects" in Google , reflected 50 action for public

After promotion of SDG impacted @ 14 academic institutions 20K students aware of SDG 7,8,13

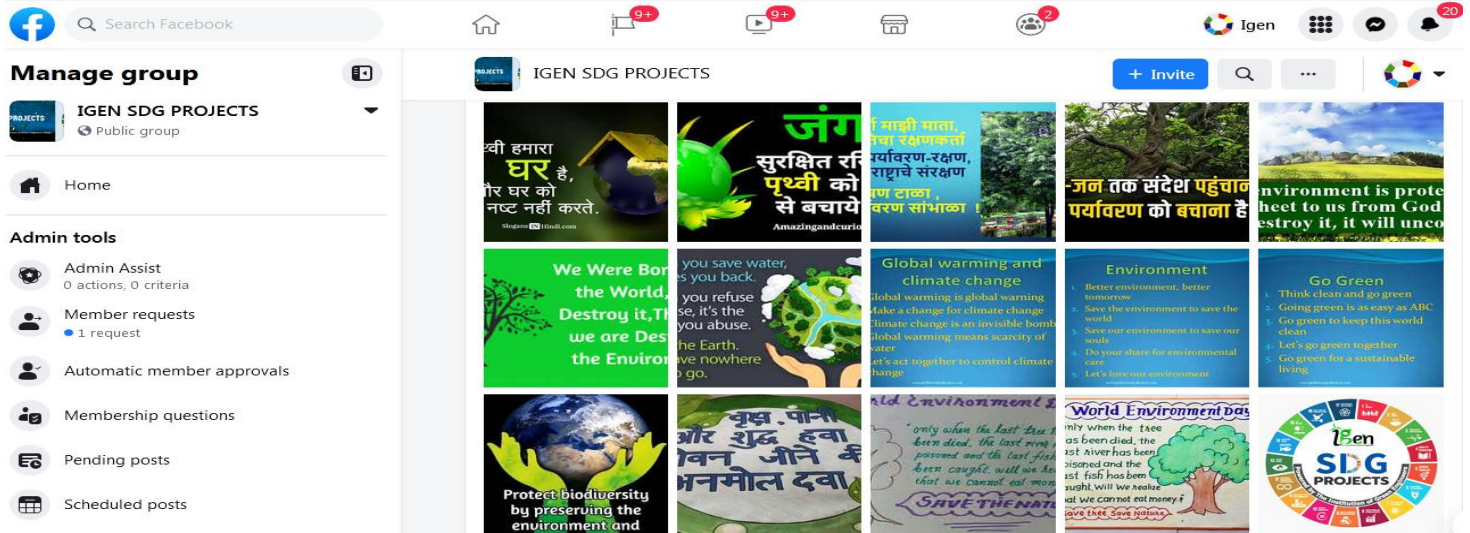
After Project 15 contestants' transformed as IGEN Volunteer and started working towards Green

Three school children's team of 20 members started monthly SDG awareness with public





IGEN SDG PROJECTS OUTCOME REPORT



IGEN SDG BADGE OUTCOME PRESENTATION



Prof Somveer
Founder and President
Aahar Deep Foundation

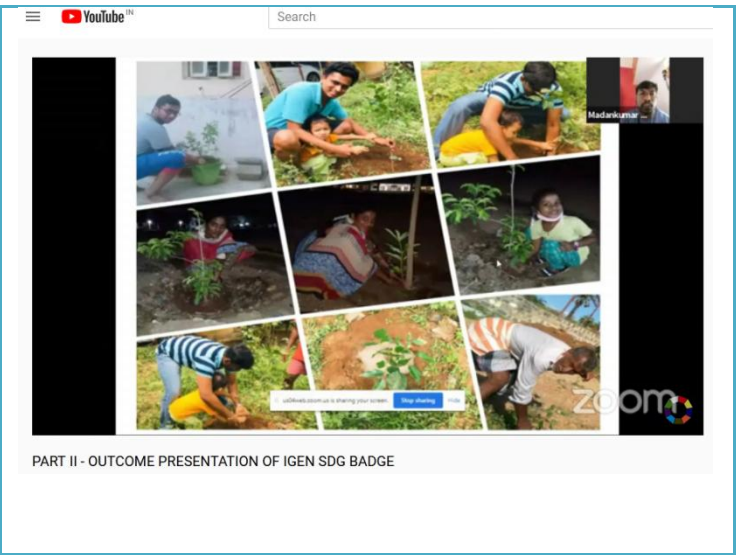
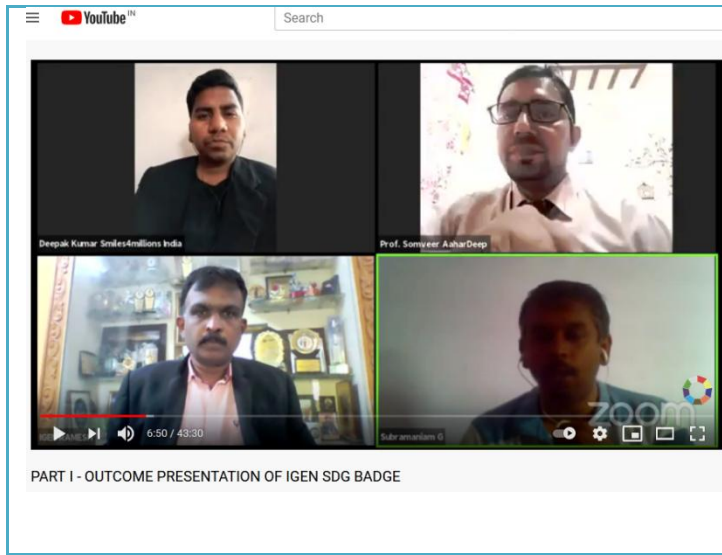
JUDGES



Environmentalist Deepak
Founder & President
Smiles4millions Foundations

The "IGEN SDG BADGE V1.0" came to the conclusion through the outcome presentation. 26 final contestants' presented their 99 days action towards SDG 7,9,13 with the panel judges. The interesting presentations by contestants' from age 13 to age 84 on various topics, some are listed here, Dremovact, A step towards climate - plantation 99 trees within 99 days, Innovation begins at kids, Climate Action Awareness, Reduction of waste generation, The Value of Green Vegetation and Green Cleanliness, Saving one unit per day, Sustainable usage of resources, "Walk and Cycle more" to save the world, Awareness on reducing plastic usage, 99 DAYS = 99 IMPLEMENTATIONS.

The Judges witness and categorize the project with star ratings. All the project completion winners will receive Award in the Valedictory function/



Project Implementation Proof @ <https://www.facebook.com/groups/igen.sdgprojects>



**IGEN GREENDAY GREEN
PLEDGE 2020**



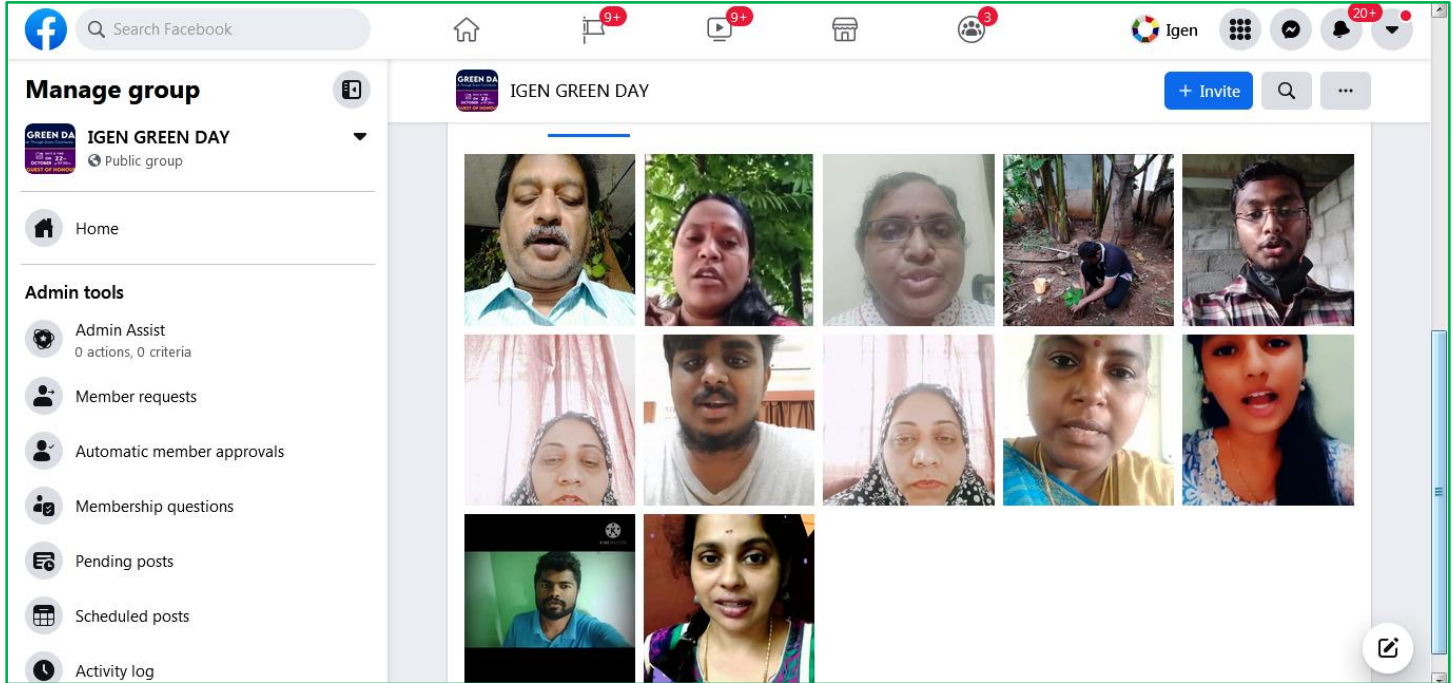
Project Name : # IGEN GREENDAY GREEN PLEDGE 2020		
Duration of Project	22/10/2020	
Research Partner	IGEN Industry Partners	
Contributed UN SDG Goals	SDG 3,4,6,7,9,11,12,13 & 17	
Represented Country	India	

Objective of the Project:

IGEN GREEN DAY is celebrated with great zeal and enthusiasm across the globe on 22nd October in aid of anniversary of The Institution of Green Engineers. IGEN GREEN DAY is an annual event celebrated around the world on October 22 to demonstrate support for green environment and inspire awareness and appreciation for the Green Contributors.

IGEN GREEN DAY 2020 celebrated on 22 Oct and interested green volunteers taken pledge to implement green and get designated appreciation

The green pledge contribution help us to contribute to green SDG goals. In future this project will be the big million pledge to create green environment.



OUTCOME TOWARDS UN SDG GOALS

180 volunteers taken pledge to implement green activities or projects or action from 22 Oct

75 action videos posted for promotion of green SDG goals and got more than 1M views

25 green action project started by the volunteers through ENSAV club staff members

All action result to reduce 0.5M of CO₂ , plantation of 75 trees and reduction of 2MI water

Project Implementation Proof @ <https://www.facebook.com/groups/igengreenday>

IGEN
ENERGY99CHALLENGE
PILOT PROJECT



Project Name : #IGEN ENERGY99CHALLENGE Pilot Project		
Duration of Project	13/12/2020 to 13/03/2021	
Partner	Yavorum Kelir , Agatiam Trust	
Contributed UN SDG Goals	SDG 7,13	
Represented Country	India	

Objective of the Project:

The Objective of the project is to implement energy saving, #igengreen9mantras to 99 public in 99 days with outcome to save 36K Units per Year at home.

Saving of 1 unit will be equivalent to reduce 1.3kg of Co2 and saving of 720lit water / day.

About #igengreen9mantras: IGEN GREEN9 initiated energy conservation research in the year 2014 with team of 50 members and converge with the solution to propose “9” importance ideas which is to be implemented at any home, can save guarantee of 1 unit per day at a home. This “9” ideas termed as #igengreen9mantras.

Manage group

IGEN ENERGY999CHALLENGE
Public group

Home

Admin tools

- Admin Assist
0 actions, 0 criteria
- Participant requests
- Participation questions
- Pending posts

IGEN ENERGY999CHALLENGE
IMPLEMENT IGENGREEN9MANTRAS TO COMPLETE THE CHALLENGE

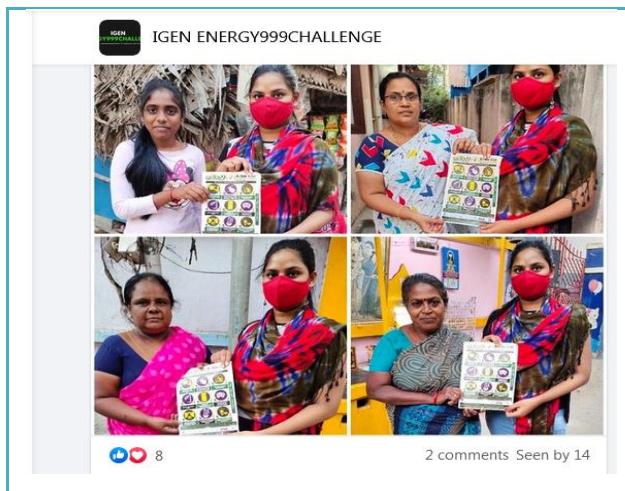
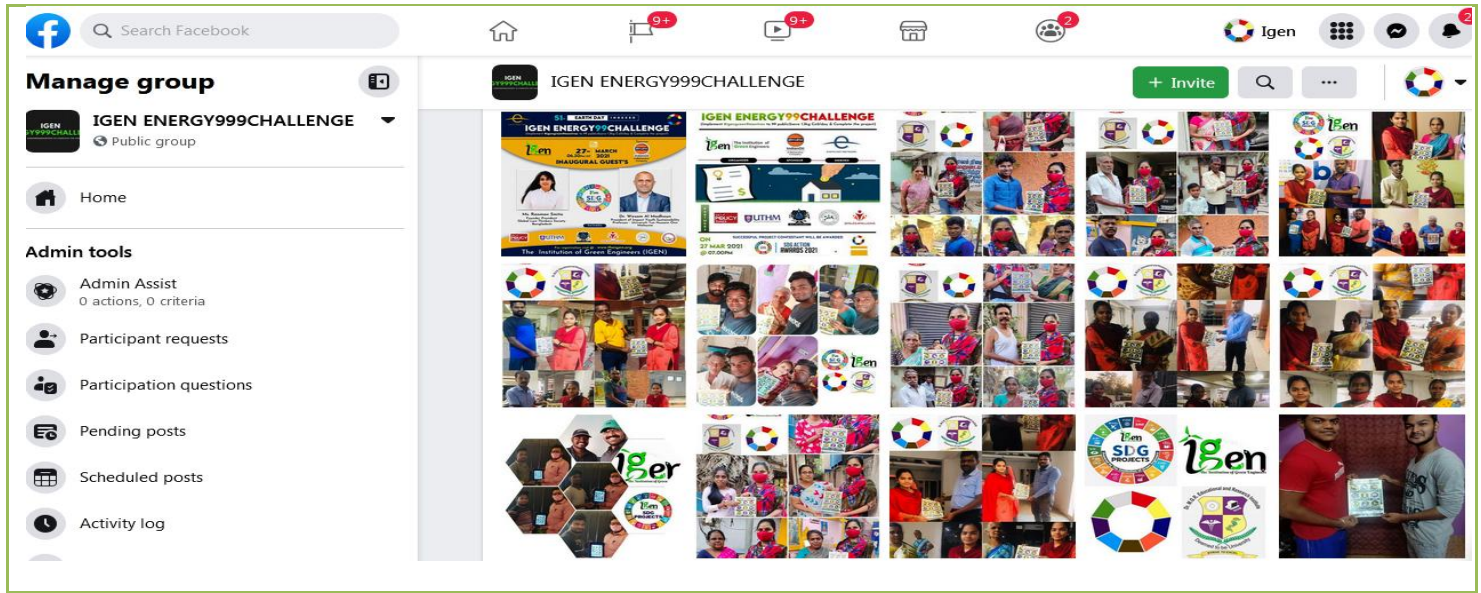
Group by The Institution of Green Engineers - IGEN

IGEN ENERGY999CHALLENGE
Public group · 71 members

+ Invite



IGEN SDG PROJECTS OUTCOME REPORT



OUTCOME TOWARDS UN SDG GOALS

50 registered participants for pilot project to test the impact of green9 mantras with home conservation

500 post updated in the FB group on creating awareness on SDG 7,13

With implementation of save one unit per day at home , 25 participants saved 10K unit annually

1000 home consumer started promotion of energy saving concept to their neighbors'



Project Implementation Proof @ <https://www.facebook.com/groups/igenenergy999challenge>



The Institution of Green Engineers



SUSTAINABLE DEVELOPMENT GOALS

