



Energy Swaraj Foundation
Energy by Locals for Locals

ENERGY SWARAJ CLUBS

Guidebook To Establish And Run Clubs



Abbreviations

ESF – Energy Swaraj Foundation

ESC – Energy Swaraj Club

Billion – 1,000,000,000 or 100 Crore

CO₂ – Carbon Dioxide

Million – 1,000,000 or 10 Lakhs

PPM – Parts Per Million or 1 in 1,000,000

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1 Energy Swaraj

1.1 Context

Energy is a significant driver of social and economic growth and has become an essential part of human survival. However, the use of fossil fuel-based energy, which constitutes nearly 80% of the energy basket, is also a primary culprit of climate change.

Climate change is real, and its catastrophic effects are increasing with each passing day. The average temperature of Earth is already hotter by 1.1°C compared to pre-industrial levels in 1850. As per IPCC (Intergovernmental Panel on Climate Change) report, Carbon emission has to be stopped at 450 ppm i.e. equivalent to global warming at 1.5°C to avoid irreversible changes in the environment. Moreover, as per the world climate clock, only 7.5 years are left before the global temperature touches the 1.5°C mark). The IPCC suggests that we need "**drastic**" and "**immediate**" changes in energy use patterns. We need to rapidly move towards carbon-neutral living on the planet to avoid catastrophic, very expensive, and worst, life-threatening climate change. There is a need for immediate and urgent actions to tackle this climate emergency.



Figure: Climate Clock (image from <https://climateclock.world/>, accessed on 3rd Feb.2022)

1.2 Solution Approach

People live in a distributed manner, the renewable energy sources are also available in a distributed way and therefore, it is relevant that the generation and consumption of energy should be and can be achieved in a distributed way. It is, however, essential that before generating energy from any source, one must become a disciplined and efficient user of energy. These approaches reduce the user's energy requirement significantly.

We have drawn inspiration from two Gandhian Philosophies "there is enough in the world for everyone's need, not for anyone's greed" and "...not the mass production...but production by masses is required". Based on these, our Founder Prof. Solanki has written two laws of sustainability. They have been termed the "Fundamental laws of Sustainability".

Fundamental Law of Sustainability 1: “In an ecosystem of finite resources there must be **Limited** (finite) **consumption**”

Fundamental Law of Sustainability 2: “In an ecosystem of finite resources there must be **localized** (distributed) **production**”

In Summary everything that we consume on the planet, we must follow these two laws:

**Limit your consumption, &
Localize your production**

Based on the above laws, “Limited Consumption” and “Localized Production” are the key aspects of sustainable living or sustainability of life on the planet. And, among all, **Energy Sustainability** (generating and fulfilling energy needs without affecting climate) is the most important, as energy is the driver of our social and economic activities.

Anywhere, across the world, energy sustainability can be achieved by following the two Fundamental laws of Sustainability. Violating any of the two laws, even while generating and consuming energy with solar, will have some non-zero finite and negative impact on climate.

In the wake of climate change, energy access, energy security, energy sustainability, energy discipline, and renewable energy solutions are required. Decentralization, production by masses, distribution of wealth, capacity building and hand-holding of local communities to solve the problem and use of appropriate technology are values behind the solution. This will be achieved by improving livelihood skills and creating sustainable employment for the young generation.

Following the Gandhian model of Gram (village) Swaraj, the idea of Energy Swaraj was envisaged to involve local communities to generate and fulfill their local energy needs through localized activities of production (if feasible), assembly, installation, and maintenance of renewable energy solutions.

2 Energy Swaraj Foundation

The Energy Swaraj Foundation (ESF) is a section-8, not-for-profit organization. Following the two fundamental laws of sustainability given by Prof. Solanki, Energy Swaraj Foundation is working to establish **Energy Swaraj** (Energy independency) across the world. The motto of the ESF is “Energy by Locals for Locals”.

The concept of Energy Swaraj incorporates energy and climate change from a philosophical, technical, economic, social, and environmental perspective.

It goes back to the basics by rethinking the Gandhian Principles in the current context. Energy Swaraj Foundation emphasizes inculcating discipline and self-evaluation in energy usage by rearranging the energy habits before we think of generating energy, even if it is solar energy. On the one hand, it is working to bring awareness by educating all age groups, while, on the other hand, it provides end-to-end solar solutions to the climate emergency.

The Foundation works under the simple philosophy “**There is no Planet B. Let us save Planet A**”. The Foundation believes that not through the governments around the world or its policies, but through the involvement of the public, in generating and fulfilling their own energy needs, can bring a major transformation. Therefore, establishing Energy Swaraj should become a public movement.

Energy Swaraj Foundation has set ambitious targets for itself and in order to achieve those targets, there are various campaigns and initiatives. One of the main initiatives toward Energy Swaraj is the 11 years long Energy Swaraj Yatra, which is a journey that has been undertaken by Prof. Solanki (with a pledge to not go home for 11 years and live in a bus) to promote these fundamental laws and to establish Energy Swaraj.

Targets of Energy Swaraj Foundation

The Foundation is working in the ‘public movement’ mode. Its Energy Swaraj Movement is planned from 1st January 2020 to 31st December 2030, which is in line with the United Nations Sustainable Development Goals. During this period, the following two main targets are to be achieved:

A. 1000+ million people to be made energy literate

Climate is changing, natural resources are degrading, and the sustainability of life on the planet is getting affected. The Foundation will make 1000+ million people energy literate and bring them the awareness of how much energy we consume, where it comes from, how much each individual is responsible for CO2 emission, what is the current status of climate change, and how each individual can solve the issue?

B. 10+ million households to switch 100% to solar (off-the-grid)

The Foundation has set itself a mammoth target of bringing 10+ million households (~50 million people) off the grid by 2030 and providing them with complete solar solutions. The Foundation will promote avoidance and minimization of the energy before generating it through solar energy.

There are other targets that the Energy Swaraj Foundation is set to achieve, which include nurturing entrepreneurs, plantation activities, energy and policy recommendations to countries, and providing hands-on training.

3. Approach to achieve Energy Swaraj - AMG Principle

In order to establish Energy Swaraj to its fullest, one need to switch to 100% solar power, while locally generating and consuming energy (including energy needs for cooking, traveling and electricity)

Generating electrical energy needs locally (on rooftops of homes and institutions) is easiest among all. But there is no manufacturing in the world that does not have any negative impact on the environment, however small it is. Manufacturing of solar panels, electronics, batteries, and recycling of it is no different. Therefore, one needs to be careful using energy, even if it is solar energy.

Prof. Chetan Singh Solanki, Professor, IIT Bombay, Founder, Energy Swaraj Foundation, and Brand Ambassador of Solar Energy for the state of Madhya Pradesh (**brief profile in Annexure-1**) has conceptualized the AMG principle to become efficient users of energy. This principle advocates becoming a disciplined and efficient energy user before generating even

solar/renewable energy to fulfill our needs. Disciplined and efficient users of energy reduce the user's energy requirements significantly. (**Youtube Links for his talks available in Annexure -2**)

The best way to achieve Energy Swaraj is by following these three steps of the AMG principle:

Step-1: Avoid the use of energy by 1/3rd

“Avoid the use of energy, as much as possible, even if it is solar/renewable energy”

Step-2: Minimize the use of energy by 1/3rd

“Minimize the use of energy, as much as possible, using efficient appliances”

Step-3: Generate energy locally only 1/3rd

“Generate the remaining energy needs locally after following avoid and minimize step”

In adopting the AMG principle, the first step is to **‘avoid’** the use of energy as much as possible even if it is generated from any renewable energy, as there is no manufacturing in the world that does not have any environmental impact. With this step, one will be able to reduce their energy needs by 30-50%.

If energy use is not avoidable beyond a point, the next step is to **‘minimize’** the energy use by using efficient appliances. With this step, one will be able to reduce their energy needs by another 30-40%. And at last, **‘Generate’** the remaining energy needs locally using renewable energy sources to live a sustainable lifestyle.

4. Idea of Energy Swaraj Clubs

“Energy Swaraj Clubs are the action nodes of the Energy Swaraj Movement”

We all are the users of energy and we all have contributed to climate change. In order to mitigate climate change, which has become a serious global problem, we all must act toward solving this problem.

It is also clear that the time left for climate correction is very short and only government actions all over the world are not going to be sufficient in mitigating climate change. Anyway, despite several international agreements over the last 2 to 3 decades, CO₂ emissions are rising, rather

than falling. Therefore, the public at large must take part in climate correction by appropriately generating and consuming energy.

Limiting our energy needs, then generating and consuming energy locally, using locally available renewable energy resources, with the involvement of local entrepreneurs or establishing Energy Swaraj, seems to be a very logical and viable option, and can be adopted by everyone, across the globe fully or at least partially. In this context, Energy Swaraj Foundation is established to create Energy Swaraj (Energy by Locals for Locals) as a global public movement.

For Energy Swaraj to become a public movement, people at large must start taking part in appropriately generating and consuming their own energy, without waiting for policies or subsidies. This would require awareness among the masses about climate change and its cause, demonstration of alternative ways of fulfilling their electricity/energy needs locally, and encouragement for the adoption of alternative ways.

In this scheme, Energy Swaraj Clubs are recognized to be very important action nodes of the Energy Swaraj Movement and they are established to ignite public action in their locality. The charity should begin from home and clubs are expected to show appropriate behavior in terms of energy usage and adoption of renewable energy, as much as possible, before preaching to others.

For a successful Energy Swaraj Movement, the Energy Swaraj Clubs are required to take the following actions:

- Following and promoting energy literacy among the masses
- Following and promoting AMG principles
- Being energy independent, and setting up examples of energy independence (off-grid solar systems)
- Encouraging energy independence among masses
- Establishing Energy Swaraj – energy by locals for locals

5. Functions of an Energy Swaraj Club

The objective of the Energy Swaraj Clubs is to perform different activities of the Energy Swaraj Foundation in a local community that will help to establish the Energy Swaraj.

The functions of the Energy Swaraj Clubs are divided in two main categories:

- **Actions for Awareness** on energy and climate change
- **Actions for Adoption** of 100% solar energy following AMG

A. Actions for Awareness

A.1: Become Energy Literate

***Objective:** Educate yourself and empower yourself. For the effective functioning of the clubs and their valuable contribution to society in terms of awareness and climate corrective actions, it is important that club members acquire knowledge about energy and climate change and keep themselves updated about happenings in the world.*

The club members should continuously learn more and more about energy, climate change, climate corrective actions, ways to adopt renewable energy, etc.

Becoming energy literate is the first step toward climate correction. Energy Literacy includes the understanding of energy generation, its use, misuse, inefficient use, and opportunities to conserve energy and generate clean energy. A very engaging Energy Literacy Training has been designed for every energy user. The training is available in both online and offline mode.

First of all, every club member shall become energy literate by completing the Energy Literacy Training by Prof. Chetan Singh Solanki. (<https://learn.energyswaraj.org>).

Also, other lectures of Prof. Solanki on Climate Change and Energy Swaraj should be viewed. At least two lectures from the following list must be viewed and discussed within clubs. Actions for Restoring Environment - The Climate Newspaper of Energy Swaraj Foundation should be discussed in the club in every meeting, this would bring the latest events and actions on climate change.

Other than these, club members can use any other resources (like YouTube documentaries, Research papers, etc.) to increase their knowledge and skills of the club members on energy and climate change.

A.2: Make others Energy Literate

***Objective:** Carbon dioxide once emitted into the atmosphere affects everyone. Therefore, it is not enough to become energy literate ourselves, but every user of energy should become energy literate. It is important that Energy Swaraj Club members must put efforts to make everyone energy literate and make society aware of the serious consequences of climate change, and the urgency to take action.*

The club members should carry out activities for the promotion of energy literacy in society. The Energy Literacy Training is a certificate course, designed for everyone, irrespective of their qualification. It is Free and available in multiple languages. Club members can encourage individuals and institutions to undertake Energy Literacy Training. Members can approach Schools, Colleges, Companies, NGOs, Govt. bodies, Residential societies, families, etc.

Club Members may approach authorities or top management to encourage them to make training compulsory for everyone. Having made the first connection, it is important that club members connect with people and organizations. Club members can decide their monthly targets for making 1500 people energy literate in their neighboring areas. The Energy Swaraj Foundation has a target to make 1000 million or 1000,000,000 people energy literate by the year 2030.

Additionally, the following can be undertaken by the Energy Swaraj Clubs:

Competitions: The Energy Swaraj Club can organize competitions under its banner in society or in schools/colleges to promote and encourage Energy Literacy.

Sponsorship for the ELT: The Energy Swaraj Foundation has made ELT free for everyone, however, there are always expenses to maintain IT infrastructure, cost of promotion, manpower, certification, etc. For meeting this expenditure, the Energy Swaraj Foundation seeks sponsorship of Rs. 5 per person trained. The Clubs can help the Foundation to raise funds through individuals, and corporations. This is not mandatory.

B. Actions for Adoption

B.1: Become Energy Independent

***Objective:** The actions start by setting an unprecedented example of becoming energy independent. Any quantifiable and measurable action starts once the Energy Swaraj Club member surrenders their electricity connection and becomes energy independent. Members should start the adoption process from their homes, institutions, and offices and become role models for society.*

Every club member shall start taking action for becoming energy independent by following the AMG principle. This can start from members' homes and offices.

Becoming **Energy Independent** is a very big thing and would be challenging as well. Use of energy includes the use of electricity, LPG, petrol, and diesel. Eventually, we should become carbon emission-free by stopping the use of all kinds of fossil fuels. But, the easiest of all is becoming **Electricity Independent**. The club members can start following the AMG principle (as learned in ELT). Keep a target and timeline to '**avoid**' energy use by 10-20 percent. It will cut down your carbon emission. Make a plan to '**minimize**' energy use and replace old efficient appliances with more efficient appliances, without waiting for the 'end of life' of appliances. This will also cut down your carbon emission. Hopefully with 'avoid' and 'minimize' action you would be able to reduce your electricity consumption by 40 to 60%. Then as the last step, 'generate' and fulfill your remaining electricity needs locally. A solar panel-based solution, without any grid connection, would be the real Energy Swaraj Way.

Individuals can take commitment to 'Commitment to Reduce Electricity Consumption' by 20-30 percent (attached pledge document) in some fixed time. Following that, individuals can decide to switch to 100% solar energy, without any grid connection. Every member should have a plan that in 5 years (as per their convenience) they will live 100% on solar power.

We use energy for traveling, cooking, electricity, etc. In order to live an energy-efficient life, the Foundation has created a guidebook on best practices in energy-efficient living. Please refer to the '[Guidebook for Energy Efficient Living](#)'

B.2: Make others Energy Independent

Objective: *Once the members become Energy Independent, they can inspire others in the society. It is important that Energy Swaraj Club members must put effort into making everyone's energy independent by helping society to follow appropriate action and make society aware of the serious consequences of climate change, and the urgency to take action.*

Use of energy includes the use of electricity, LPG, petrol, and diesel. Becoming energy independent means stop using fossil energy-based sources. And, eventually, society should become carbon emission-free. But, the easiest of all is becoming **Electricity Independent**. The club members must encourage society (other individuals, schools and colleges, NGOs, corporates, etc.) to become electricity independent by following the AMG principle (as learned in ELT).

Organizations can be approached to take 'Commitment to Reduce Electricity Consumption' consumption by 20-30 percent (attached pledge document) in some fixed time like 3 to 6 months. Club members can guide them to follow 'avoid' and 'minimize' to meet their target. Following that organizations can be encouraged to switch to 100% solar energy, without any grid connection.

Additionally, the following can be undertaken by the Energy Swaraj Clubs:

Competitions: The Energy Swaraj Club can organize competitions under its banner in society or in schools/colleges on solar technology, related applications, promote and encourage Energy adoption. Powering classrooms on solar itself could be a competition.

Demonstration projects: One of the very important ways to encourage others to become energy independent is to create role models by installing off-grid solar installations. An Energy Swaraj Club can raise funds and provide off-grid solar systems to schools, anganwadis, hospitals, etc. For daytime operation, the cost of a no grid no battery system can cost anywhere between Rs. 16000-20,000. This can also be done in collaboration with schools and colleges, the Club can donate a part and other parts can be done by the institute or even students.

C. Other functions of the club

Other than the activities mentioned in A and B, the Energy Swaraj Club can perform following activities:

- The Energy Swaraj Yatra will go on till 2030. If a Yatra is coming to the city where the Club is established, the Club shall help in organizing Yatra in the city.
- Organizing seminars in society or in organizations related to climate change, renewable energy technologies, or even energy literacy. The club members themselves can give seminars or invite other people from society
- Club can make efforts to make the government body aware of Energy and Climate Change issues.
- Club can take any other activities, they feel, as long as it falls under the broader umbrella of the Energy Swaraj Foundation and supports creating the Energy Swaraj Movement.

6. Guidelines to establish Energy Swaraj Club

Technology alone cannot create a better world, people of integrity and consciousness of others and our environment can. The Energy Swaraj Clubs can be established in a school, college, housing society, NGOs, companies, anywhere where people can meet frequently, discuss and promote the establishment of Energy Swaraj.

A. Minimum requirements to start Energy Swaraj Club

General guidelines for the minimum requirements to establish Energy Swaraj Club are mentioned here. Following are the minimum requirements:

- **Age:** Any individual above 12 years of age can take initiative to establish the Energy Swaraj Club.
- **The number of members:** A minimum of 11 members can come together to form Energy Swaraj Club.
 - **Criteria for Membership:** Anyone who fulfills the following conditions is eligible to become a member:
 - The member is above the age of 12 years

- The member is willing to spend time for actions on the establishment of Energy Swaraj
- **Space:** It is not mandatory to have fixed space, but if possible, there can be a small place for meetings and records related to the club. The place can be anywhere in an institute, in a house, or any other place.

NOTE: No formal registration of the club under any government body is required. The clubs may collect funds for club-related activities.

B. Procedure to start an Energy Swaraj Club

The following steps have to be undertaken to start an Energy Swaraj Club:

Registration Process:

The club members can register through the following link

<https://energyswaraj.org/energy-swaraj-clubs>

Pre –Registration Requirements:

The club president can plan a welcome deck for the other members and they can start the club activities.

· Naming the Club

Innovative and interesting names for the Energy Swaraj Clubs should be kept, but it should follow a certain format. Some of the examples of possible club names could be

- *Surya Energy Swaraj Club, IIT Bombay*
- *Durga Energy Swaraj Club, Jabalpur*
- *Sandia Energy Swaraj Club, California*

The words in italic can be chosen by the group forming the club.

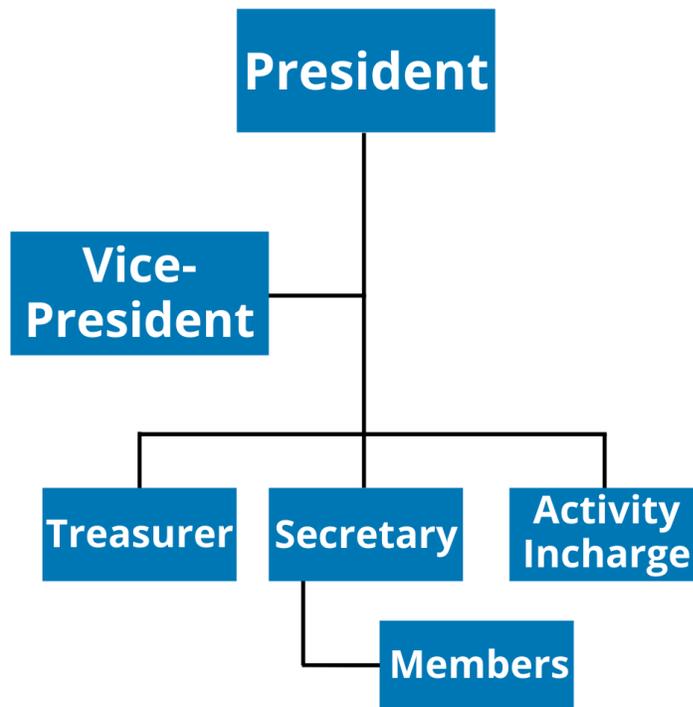
- Before starting the registration process, the selection of the roles for the President, Vice-President, Treasurer, Secretary & Activity In charge should be decided.
- Keep the required personal data ready such as Full Name, E-Mail ID, Contact Number, Name of the Organisation Etc.

7. Running of the club

In order to run the club and perform its activities effectively, it is recommended that there is a proper organizational structure for the club. It is also recommended that club meets frequently perform activities to improve the energy performance of the members, as well encourage people in society to do the same.

A. Organizational Structure of Energy Swaraj Club

The members should among themselves select a president, vice-president, secretary, and treasurer of the club. The position is valid for one year and for the next year the new office bearers for the club should be decided by the club members either by common choice or by voting. The club should submit the information about new office bearers to the Foundation.



The roles and responsibilities of club members are mentioned below.

i. Roles and responsibilities of the President:

President is the head of the club for the time he/she is appointed. A president needs to perform the following functions:

- Provides overall leadership and direction to the club organization;
- Presides at meetings of the club;
- Establishes the principle of AMG and goals Energy Swaraj movement with club members;
- Decides action with the collaboration of club members and acts as an action node;
- Raise funds for club's activities, if required;
- Work for the establishment of Energy Swaraj movement, performs function of the club;
- Approves all club press releases, newsletters, electronic communications, and other publications;
- Organizes targeted events with a specialized appeal.

ii. Roles and responsibilities of Vice-President

- Actively support and coordinate with the President and Secretary
- In the absence of the President, to act as President
- Plan a program that will encourage maximum attendance

iii. Roles and responsibilities of Secretary

- Convene Club meetings, keep/disseminate minutes of all such sessions, and maximize participation or take action against regular non-attendees
- Submits monthly reports of the club's activities to the Energy Swaraj Foundation by filling the form
- To appropriately conduct the Energy Swaraj Foundation's activities

iv. Roles and responsibilities of Treasurer

- Assist the president in preparing and maintaining budgets and financial controls
- Oversee, maintains, and supervise club finances, collect dues from the members
- Pay all club bills
- Prepare annual financial reports of the club

v. Roles and responsibilities of Activity In charge

- Plan the activities of the club as per the objectives in collaboration with team
- President and Activity in charge leads the Implementation of the activities
- Ensure that activities are planned to cover all functions of the clubs

B. Club meetings

- **Meetings frequency:** It is suggested to have weekly meetings to plan, discuss and take actions. However, it is mandatory to keep one Energy Swaraj Club meeting once in 15 days. Members can decide their own suitable timing. **The suggested discussion points for the first meeting is given in Annexure -3.**
- **Record keeping:** A record of attendance, discussion on previous actions and new planned actions is mandatory. The details should be submitted to the Foundation through the online portal.
- The typical agenda of the club meetings would depend on what activities the club is undertaking. However, the structure of the agenda should remain the same. Following is the guideline for how an agenda of a typical club meeting should look like:

Agenda of the Meeting			
Note: This is suggestive agenda			
Club Name:			
Date:			
Venue:			
S. No.	Item	Person	Actions
1	Recitation of "Be one with Sun" text (The text for the poem is given in Annexure -4)	All members	
2	Opening of meeting and Introductory remarks	President	
3	Part-1: Become Energy Literate Discuss the items related to this, how members have made progress.	President Members	Secretary to note down minutes,



	One member may present the points from Digital Climate Newspaper or global climate-related events		List the action plan emerging out from discussion, Assign the task to a club member, who will take action and present the progress in the next meeting
4	Part-2: Make other Energy Literate Discuss about plans to promote energy literacy, Progress and Outcome from actions of the club	President Members	The President discusses the Plans with the club members.
5	Part-3: Become Energy Independent Discuss the progress made by the club members. This may be further divided in three categories: <ul style="list-style-type: none">- Actions to avoid the use of energy- Actions to minimize the use of energy- Actions to generate energy with renewables	Members	Members will discuss the action taken by them to become energy independent.
6	Part-4: Make others Energy Independent Discuss plans to promote energy independence Progress and Outcome from actions of the club This may be further divided in three categories:	President Members	The President discusses action with the collaboration of club members

	<ul style="list-style-type: none"> - Actions to avoid the use of energy - Actions to minimize the use of energy - Actions to generate energy with renewables 		
7	Financial summary of the club Plans to raise funds, etc.	Treasurer	The Treasurer will maintain and supervise the club finances after each meeting.
8	Any other point, that members would like to discuss or the point that was not part of the plan	all members	

C. Club profile for public and meeting record of activities

Once started, the club is expected to provide updates on its activities digitally through the ESF platform. Each club will also be required to maintain a page about its current active members, and key activities, which will be visible to the public (this need not be in great detail). This information will be made available to the public through the ESF website.

The clubs are also required to provide information about the club activities to the Foundation. The club secretary will update the Energy swaraj foundation about the minutes of the meeting through the online portal

D. The Foundation's support to the clubs

The Foundation will provide the following support to members:

1. Guidebook on how to switch to 100% solar solutions:

This is an extensive guidebook that provides how one can approach switching to solar energy in step by step manner.

2. Free access to Energy Literacy training course:

The Energy Literacy Training will be available for free - learn.energyswaraj.org for free to club members.

3. Free access to digital climate newspaper:

Climate change and related activities will become more and more important as the time passes, the Foundation is going to bring a digital climate newspaper, to keep all its member updated on the climate-related issues and the latest happenings

4. Opportunity to write articles and reports:

The club members will get an opportunity to write articles that the Foundation can publish on its website. Also, the club members can become reporters in the locality and report happenings from the locality, which can be incorporated in our Digital Climate Newspaper

5. Priority and discounts to club members in events and functions of the Foundation:

The Foundation organizes several events and functions like conferences, Energy Swaraj Awards, Energy Swaraj Yatra events, etc,. All the club members will get priority and discounts (if there is any fee) in such events.

Annexure 1

About: Prof. Chetan Singh Solanki

Prof. Chetan Singh Solanki is an educator, researcher and innovator who is currently on unpaid leave from IIT Bombay. He has undertaken Energy Swaraj Yatra from Nov. 2020 through a solar bus for 11 years, until 2030. In this yatra, Prof. Solanki has pledged not to go home until 11 years and stay in the solar yatra bus. In the wake of serious and catastrophic climate change, this Energy Swaraj Yatra is designed with the purpose to create a public movement towards adoption of 100% solar energy. He has been honored with the Brand Ambassador of Solar Energy of Madhya Pradesh Government. **Prof. Solanki has also been referred to as “Solar Man of India” by Times of India, The Hindu and India Today. Some people also call him “Solar Gandhi.”**

Following Gandhian ideals, he has coined the word ‘Energy Swaraj’ and to establish Energy Swaraj globally he has founded the Energy Swaraj Foundation (ESF). Prof. Solanki has led major solar projects at IIT Bombay. Through his SoULS project he has reached 7.5 million families providing them clean light. There are several awards to his credit, these awards includes IEEE’s global grand prize of US100,000\$, Prime Minister’s innovation award for SoULS project, first prize in Solar Chulha Design Challenge by ONGC, three Guinness World Record, two Young Scientist awards, CSIR Science and Technology award, Excellence in RE Skilling, “Outstanding Green Activist” and many more.



Annexure 2

YouTube Links of Prof. Chetan Singh Solanki Talks

Links of the talks are as mentioned as given below:

- <https://www.youtube.com/watch?v=0Dw5RbHalFA>
- <https://www.youtube.com/watch?v=IN8YtEtfRPw>
- <https://www.youtube.com/watch?v=1sv3ce4vvk8>
- <https://www.youtube.com/watch?v=HZAQrVIjAxU>
- <https://www.youtube.com/watch?v=994lkt6Q2Ig>
- <https://www.youtube.com/watch?v=og3HBO3OKmA>



Annexure 3

Suggestions for a Successful First Meeting

For your first meeting, you may want to appoint a steering committee or some other form of governing body.

- Select a time and place for a first gathering (Virtual/offline).
- Plan a program that will encourage maximum attendance.
- Email or send notices to all potential club members in the area well in advance of this date
- Define goals of Club
- Notify the Energy Swaraj Foundation office, the '**Agenda of the Meeting**' on the ESF Website.



Annexure 4

Remembrance

In the beginning of every club meeting, all the members present in the meeting must speak these words of “Lets be one with the Sun” together.

Lets be one with the Sun

The Sun is the centre of our existence. The wind blows because of the Sun, the river flows because of the Sun, the forest grows because of the Sun

Every life on the planet is nurtured by the energy from the Sun and it is THE driving force of our lives.

Diverging from the Sun's energy and switching to fossil energy has caused severe damage to our environment. Switching back and running our lives 100% on solar energy could again make human life sustainable on the planet.

We, members of the Energy Swaraj Club, are going to make conscious efforts to avoid misuse and overuse of energy and use energy efficiently. We would also gradually switch and run our lives on solar energy.

Also, We, members of the Energy Swaraj Clubs, are going to make conscious efforts to encourage others to avoid misuse and overuse of energy and use energy efficiently, and gradually switch on to solar energy.