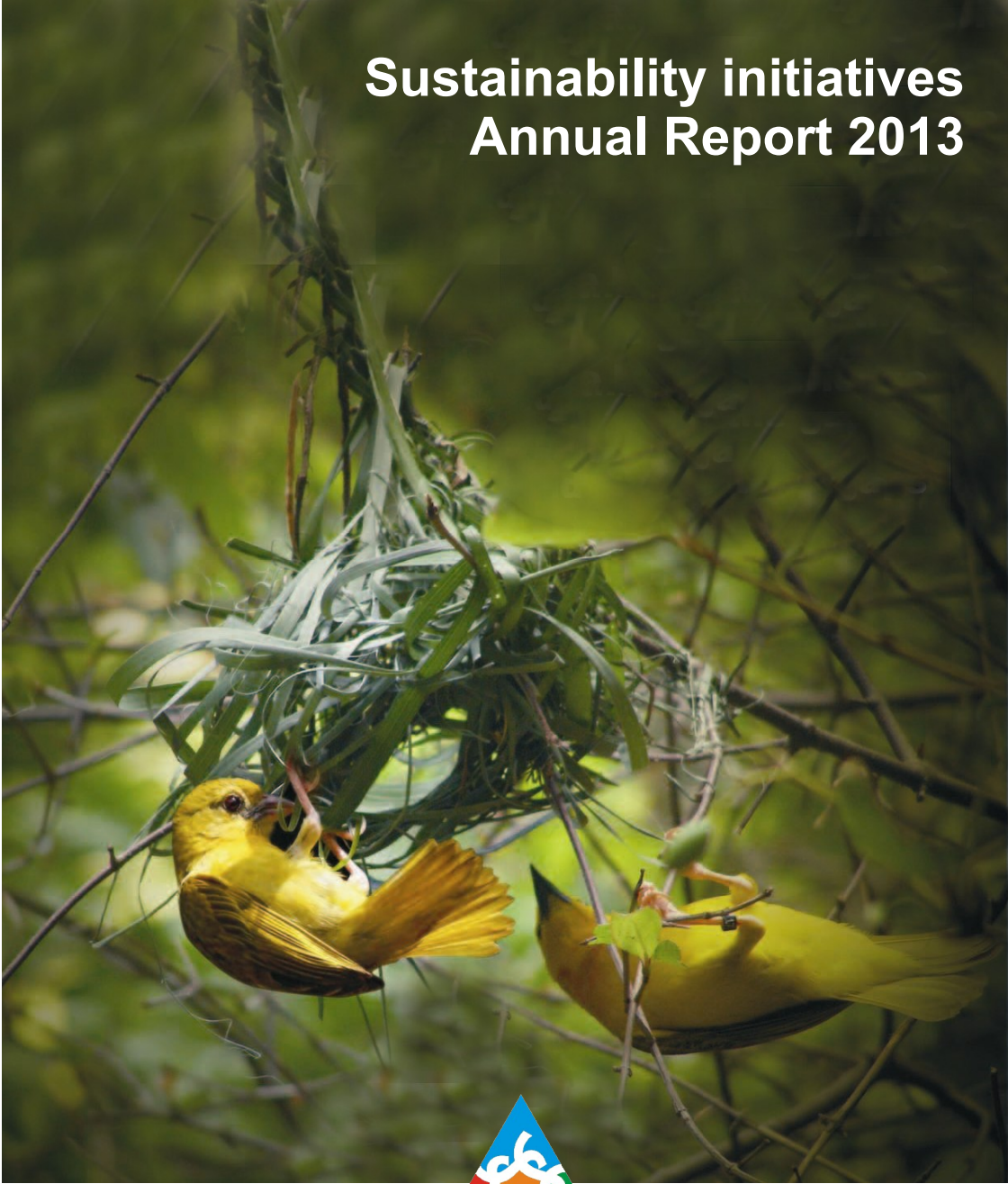


Sustainability initiatives Annual Report 2013



sustainability
initiatives

About us

Sustainability initiatives is about people. About you and we, and every living being on the planet. It is about living a better quality of life for a prolonged time. Hence Sustainability. Also because changes which are the consequences of humanity's own deeds now require us to be alert, aware and active in responding positively to them. Since Sustainability is about all of us, Sustainability Initiatives is for us.

Sustainability Initiatives is built on the philosophy which talks about creating awareness through systemic mobilization of knowledge in the fields of Energy, Environment, Ecology and overall Sustainability. It is a platform via which knowledge flows through the different streams of individuals, organisations, government agencies and everyone else who thinks sustainability is their job.

We act as a vessel of like-minded experts, who collaborate to create, support and assist this web of knowledge. It is achieved through conducting research, undertaking social reporting and building capacity. Through this, we assist governmental bodies to take knowledge based decisions in policy making and to spread the necessary awareness to understand and implement these policies. We also assist NGO's Educational Institutions and professional bodies to gather and disseminate knowledge regarding sustainability.

SI conducts Academic and Applied Research in the field of Environment, Energy and Ecology. To execute this research in an effective manner,
we create Training and Education modules.
we deliver Training and Capacity Building programmes.
we develop and deliver Career Orientation Certificate modules.
we form a Knowledge Repository
we create publications, manuals and guideline.

Our work can be categorized under five heads namely

- Research
- Capacity Building
- Outreach
- Advocacy
- Publication

The SI Team



Anagha Paranjape-
Purohit, Trustee



Poorva Keskar,
Trustee



Hrishkesh Kulkarni,
Trustee



Apoorva Kulkarni,
Trustee



Pranati Shroff-Munot,
Core member



Namrata
Dhamankar-Jadhav,
Core member



Shraddha Zende,
Programme Coordinator



Shraddha Mehta,
Research Coordinator

SI Activities at a Glance

	Research	Advocacy	Outreach	Capacity Building
Aug 2011				Workshop on Green Buildings for IGBC Pune chapter
Nov 2011	Existing land use survey for the 3 rd Revision of Draft Development Plan for Phaltan, Satara PMC Tree Census for Bibwewadi ward in Pune		Press conference on the issue of " Biodiversity Parks " in Pune	Seminar on GRIHA rating system for CREDAI, Nashik
Dec 2011		Presentation of incentives framework for GRIHA rated buildings in PCMC		Course content development for Certificate course in ' Energy Efficiency in Green Buildings ' for CEES and Bridging Nations
Jan 2012			Interaction with Dr. R.K. Pachauri for CREDAI-PMR at Pune	Delivery of course on ' Energy Efficiency in Green Buildings ' in collaboration with CEES & Bridging Nations
Feb 2012		Filing of Suggestions & Objections to the GR regarding Housing for EWS/LIG		
Mar 2012	PMC Tree Census for Dhankawadi ward in Pune			Workshop on Green Buildings for Sinhgad Institute, Pune Course content development for Certificate course in ' Environmental Impact Assessment ' for CEES and Bridging Nations

Apr 2012			Interaction and brains torming amongst GRIHA Trainers & Evaluators at Pune	Workshop on GRIHA rating system for PCMC officers at Pimpri Chinchwad Delivery of course on 'Environmental Impact Assessment' in collaboration with CEES and Bridging Nations
May 2012				Training programme on GRIHA rating system at Nashik
Jun 2012			Launch of SI website	
Jul 2012			Launch of SI student & professional memberships	
Aug 2012				
Sept 2012	Research on creating a vision for Pune Metropolitan Region			Workshop on 'Environmental Impact Assessment' for Fergusson College, Pune
Oct 2012				Regional conference 'Towards Urban Sustainability- the GRIHA approach' at Pune
Nov 2012			Organis ation of site visit to Suzlon One Earth, Pune for Rajlaxmi group & Rizvi	

Dec 2012			<p>Press conference on Conservation of Pune's Heritage in collaboration with BNCA, INTACH and KKH, Sweden</p> <p>Launch of publication 'Inclusive India-Re:Pune' along with unveiling of the exhibition of student work at Kelkar Museum Pune</p>	<p>Organisation of Heritage Walk in Pune in collaboration with Janwani</p>
Jan 2013				<p>Workshop on 'Green building and EIA' at Yashada</p> <p>Seminar on GRIHA rating system at Pimpri Chinchwad</p> <p>Workshop on Energy Conservation and ECBC collaboration with MEDA</p>
Feb 2013		<p>Filing of Suggestions & Objections for revision in the Pune CDP (2012-41)</p>		
Mar 2013	<p>Work begins on Urban Street Design Guidelines for Pune city</p>		<p>Awareness campaign for World Water Day</p> <p>Organisation of site visit to Suzlon One Earth, Pune for Sinhgad College of Architecture</p> <p>Launch of SI Facebook page</p>	
Apr 2013		<p>Presentation on Incentives framework for SVAGRIHA rated</p>	<p>Awareness campaign for Earth Day</p> <p>Launch of</p>	

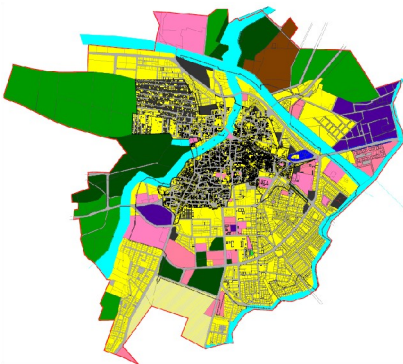
May 2013		Presentation on Incentives framework for GRIHA & SVAGRIHA rated buildings in NMC		
Jun 2013	Research study on management of garden waste in housing societies	Filing of Suggestions & Objections to Development Plan of Pune (2007-27)		
Jul 2013				Workshop on 'Green Building & EIA' for engineers at MHA DA, Pune
Aug 2013	Environmental audit of VK office		Organization of site visit to Suzlon One Earth & Orange County Foundation for Symbiosis Institute of International Business SI website gets a new look	Workshop on SVAGRIHA rating system at Pimpri Chinchwad
Sep 2013	Research study on solid waste generation and disposal during Ganesh festival in Pune Online public survey for opinions on the most significant impacts of Ganesh festival on the lifestyle			
Oct 2013	Online public survey for opinions and recommendations for streets in Pune		Press conference on the issue of solid waste management during Ganesh festival in Pune Press conference to invite suggestions for Urban street design through opinion survey	

Research

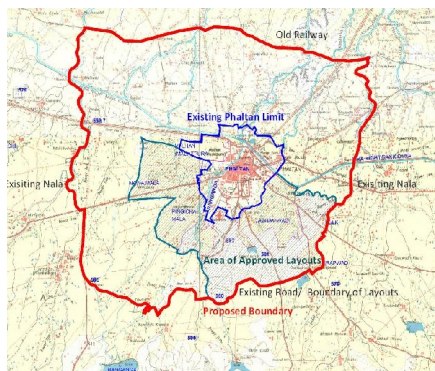
There is a massive gap between availability of quality research that can feed into policy making in India. At Sustainability Initiatives, we feel that research, particularly in the areas of Urban planning and policy will go a long way in developing better cities. The following snapshot of our research activities have emerged, where we have put in some efforts at issue based research.

Existing land use survey for the draft Development Plan for Phaltan, Satara 2011 – 2012

In association with Mrityunjay Ashram Trust, Phaltan, Sustainability Initiatives was involved in the existing land use Survey for the 3rd revision of the draft Development Plan of Phaltan. As a growing town of 50,000 population, Phaltan was looking at developing a Plan to chart a direction for its otherwise haphazard and rapid urban growth. The existing land use (ELU) map was created after an extensive ground survey involving students from BNCA and a local school. The ELU, along with the land use also mapped existing infrastructure, services, building typologies, age of construction etc. Based on the ELU, it was analyzed that Phaltan, with its projected urban development will lack the basic civic amenities and hence an alternative for extension of urban jurisdiction was proposed. The work currently stands at the level of State Cabinet approval.



Existing land use classification of Phaltan.



Proposed extension of planning area boundary for Phaltan.

Pune Tree Census 2011-2012

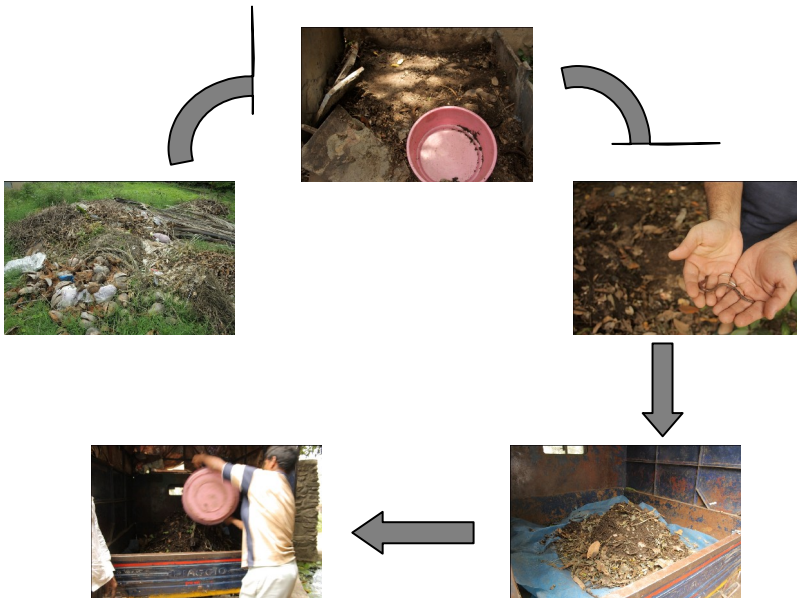
Sustainability Initiatives collaborated with Green Interventions to conduct a tree census for 18 electoral wards of Pune in the Bibewadi and Dhankawadi areas. The project involved training of volunteers to identify species of trees, recording of tree height, girth, age of trees and documenting photographs of existing trees. Data was collected from all individual private and public properties in the wards.



About 45 student volunteers from Fergusson College, Bharati Vidyapeeth and University of Pune collected the data for this Tree Census.

Pilot study on Garden waste treatment July 2013

Ninad Jog from College of Environmental Planning and Technology, Ahemdabad (CEPT) conducted a research on garden waste management under the guidance of the SI team. He studied the treatment methods for garden waste in housing colonies and carried out a pilot experiment at Shirrang housing colony in Pune. Garden waste from 26 plots of 3000 sq ft was collected and stored in a vermiculture pit. The vermi-composting process was constantly monitored to assess the quality of the treated waste. The results showed that it took about 3 months to treat 3 brass of Garden waste in to fine quality manure. It also showed that the volume of waste was reduced by half after the composting process. The compost was later distributed in the nearby plots.



Creating a vision for Pune Metropolitan Region 2012-13

With increased urbanization, the need for integrated regional planning has become ever more important. Sustainability Initiatives in association with Janwani a social initiative of Mahratta Chamber of Commerce has initiated a project to succinctly put together the vision for the Pune Metropolitan Region through informed stakeholder consultations. The Pune Metropolitan region is the region including the area within the city limits and the fringe areas where development is increasing at a growing rate. The project aims to utilize an envisioning process that relies on market realities and diverse stakeholder inputs overlaid with environmental-spatial constraints, and create a base for effective planning in Pune Metropolitan Region. As geographical regions share the same physical-spatial context and the same strengths and weaknesses with respect to location, thus it makes sense to plan regions integrally so as to ensure equitable, healthy and resource-efficient planning. Through this project we look forward to come up with a plan for better management of natural resources, sharing of infrastructure such as transportation and communications; and equitable development of rural and urban through integrated regional planning.

Urban Street Design Guidelines for Pune 2013-2014

This project was initiated by Pune Municipal Corporation through a public tender and the work was awarded to VK:a architecture in Feb 2012. Sustainability Initiatives is assisting VK:a architecture in creating awareness, carrying out stakeholder consultation and public participation events for this project. The objective of the project is to produce a compendium that includes guidelines for designing streets of Pune that are safe, comfortable and environmentally viable. The project will also compile recommendations based on primary and secondary study on allocation of spaces between different components of the streets such as vehicular way, footpaths, bus stops, trees etc. To address the requirements of all stakeholders, an opinion survey is being conducted and we aim to receive a response from 10,000 citizens for our further analysis. The project involves close discussions with agencies like PMPML, MSEDCL, PMC Garden Department, NGO's, and the Traffic Police and their opinions are being incorporated in the work. Students from BNCA have been involved in in this project through interactive presentations, conferences and seminars. The collaborative project has been featured in the media to create awareness amongst all road users.



Research study on Solid Waste generation and disposal during Ganesh festival in Pune September 2013

Sustainability Initiatives conducted a rapid study to explore the magnitude of additional waste generated during the 10 day Ganesh festival and the prevalent practices of civic waste management in that duration. We worked with 15 volunteers from colleges, corporates and industry to interview 40 Sarvajanic Ganesh mandals in Pune and

quantities of materials used by them for activities like decoration and procession. Further, through field observations and interviews we investigated where and how much of this material ends up as waste and where is it disposed. The Pune Municipal Corporation provided us with waste statistics that corroborated the secondary data collected by volunteers. Further, we conducted an Online Survey to understand citizen perceptions about waste.



In brief our results showed that about 30% of additional waste is generated on Visarjan days. It was found that exotic floral decoration is most predominant during processions. Also, it was noted that about 43% out of the mandals interviewed have used reusable decoration material for pandals. Recommendations for better management of festival waste have also been discussed in the study.

Our research was very well received by the media and was featured in newspapers like DNA, Times of India, Maharashtra times, Sakal times, Lokmat, Pudhari & also covered by Saam TV.

Environmental Audit of VK:a office, Pune September 2013

Sustainability Initiatives undertook this new project with an aim to understand how efficiently or inefficiently an office consumes its resources and identify potential areas for improvement. The first phase included a thorough assessment of daily energy, water consumption and waste generation at VK:a office. Parameters like energy performance index, thermal comfort, and optimum illumination were determined with use of instruments such as clampmeter, thermo-hygrometer and lux meter. On the basis of this environmental audit, recommendations are given for energy & water conservation and waste reduction. Some of the recommendations include, replacing of old electrical appliances with energy star rated ones, change in office schedule to make use available daylight & cooler working hours and changing behavioral habits of people. In the second phase of the project a Green Office Week is organised where we will see implementation of the above recommendations and their effectiveness measurement.

Advocacy

Advocacy is a very crucial function of Sustainability Initiatives, where we take efforts to address current and future policies of the government. One of the main objectives of Sustainability Initiatives is to guide governmental and semi-governmental departments in policy making through expert driven research and analysis.

Presentation of Incentives framework for GRIHA rated buildings in PCMC 2011

Sustainability Initiatives has guided the Pimpri Chinchwad Municipal Corporation (PCMC) to develop a framework for the incentives to be offered to the developers and home-owners of GRIHA rated buildings in the PCMC jurisdiction. Experts from SI have contributed through organizing stakeholder consultations and sharing expert advice for the incentives scheme and developed a incentive framework that is in best interest of all stakeholders. Along with technical guidance, SI also supports PCMC by organizing capacity building programmes for internal and external capacity building. SI also assists in creating promotional material for the widespread reach and implementation of the GRIHA rating system.

More details of the incentives offered are available on the Pimpri Chinchwad Municipal Corporation website (www.pcmcindia.gov.in)

Filing of Suggestions & Objections to Government Regulation regarding housing reservations for economically weaker section/ low income group January 2012

In January 2012, a Government Resolution (GR) was issued by the Urban Development Department to modify Development Control (DC) rules for all Municipal Corporations with regards to housing schemes for Economically Weaker Sections and Low Income Groups (EWS/ LIG). Urban planners from SI and its associate members studied the document and submitted suggestions and objections to this resolution for reservations in housing projects for economically weaker sections. Some of the suggestions given were:

The complete document of suggestions and objections is available for download on our website.

Proposal for a Revised City Development Plan (CDP) for Pune February 2013

A 'Revised City Development Plan for 2041' for Pune , under JNNURM was prepared and published by Pune Municipal Corporation in Feb 2013. The PMC invited the stakeholders of the city to suggest their inputs for the improvement of this development plan. SI studied this document and suggested that some points from the document should be reconsidered and revised.

The complete document of suggestions and objections is available for download on our website.

Presentation on Incentives framework for SVAGRIHA rated buildings in PCMC 2013

After incentivizing the GRIHA rated buildings under their jurisdiction, Pimpri Chinchwad Municipal Corporation (PCMC) has also adopted the new SVAGRIHA rating system which is applicable for small projects under 2500 sq.m. SVA GRIHA rating system is a design-cum rating tool which helps in design and evaluation of individual residences, small offices, schools, motels, commercial buildings etc. Experts from SI have facilitated consultations with all the stakeholders and helped the PCMC in developing the incentives framework for SVAGRIHA rated buildings. Promotion of the rating system and other capacity building activities are also being carried out by SI in collaboration with PCMC and the GRIHA secretariat.

More details of the incentives offered are available on the Pimpri Chinchwad Municipal Corporation website (www.pcmcindia.gov.in)

Filing of Suggestions & Objections to Development Plan of Pune 2007-27 June 2013

The Pune Municipal Corporation (PMC) published the Draft Development Plan 2007-2027 on its website on 27th March 2013 and it was open to public responses through suggestions and objections. Sustainability Initiatives, with urban planning at its core, submitted a detailed document for suggestions and objections on this Development Plan. The suggestions covered areas of policy for landuse, metro influence zone, cluster development, middle class housing development, recreational open space and density and modifications in the new Development Control Rules. Urban planners from SI also conducted awareness sessions for citizens in various parts of the city to explain them the process of urban planning and how this Development Plan will affect their neighborhoods. Citizens were also encouraged to voice their opinions about the development plan.

The complete document of suggestions and objections is available for download on our website.

Incentives framework for GRIHA and SVAGRIHA rated buildings in NMC 2013

Green building are being looked upon as a means for optimum use of resources and a very effective way for environment conservation. SI has also initiated work for creating a incentives framework for GRIHA and SVAGRIHA rated buildings under the Nashik Municipal Corporation jurisdiction. SI has facilitated stakeholder consultations with CREDAI and IIA bodies from the city to understand their expectations of incentives to promote the wide-spread building of environment friendly construction. SI further coordinated with the NMC to develop a incentives framework which is in the best interest of all stakeholders. SI is providing its expert advice to develop the best possible incentives framework which will help in wide-spread adoption of green building in Nashik and help in optimum use of resources through the medium of GRIHA rating.

Presentation of White Paper on Possible Incentivisation of Energy Efficiency measures in buildings, for the Planning Commission Working Committee on Energy, in collaboration with Prayas 2012

Ar Anagha Paranjape-Purohit and Ar Namrata Dhamankar of Sustainability Initiatives worked closely with the Prayas team to develop a white paper on possible avenues and requirement of providing incentives for building energy efficiency measures in commercial buildings. The SI team worked with Late Girish Sant and Daljit Singh of Prayas on this. Numerous roundtable discussions were conducted with Developers, architects and energy managers to understand where and how incentives will be effective, if at all, in ensuring energy efficiency in buildings.

Outreach

Outreach Programmes at Sustainability Initiatives are all about reaching out to the community in order to spread awareness on Sustainability and bring about a lifestyle change amongst people. Outreach programmes at SI are diverse and in their own way bring about a change in peoples' mindsets and thus help begin the journey towards Sustainable Development.

Press conference on the issue of Biodiversity Parks in Pune Nov 2011

The Development Plan (DP) for Pune fringe areas was held in abeyance, as environmental activists from the city wanted provision of a Biodiversity Park on the hill tops and hill slopes surrounding the city. Environmental and urban planners from SI studied the issue of BDP in detail and created a presentation on the same. A press conference was conducted to bring to light this issue of Development Plan and we demanded that a DP should be passed by the State Government immediately without any decisive stand on BDP. It was voiced that it is more important to have a development plan in place for a growing city than to remain indecisive on the BDP issue. SI also informed that they will work on a document which will create a vision of the city in different scenarios (with BDP, without BDP, etc.). Citizens were invited to give their suggestions in creating a better vision for the development of Pune city. The press conference was well received by all newspapers.

<p>'वादर्हित डीपीला त्वरित मान्यता घ्या' म. रा. प्रतिनिधी • पुणे</p> <p>वाढत्या विकास आराखड्याविषयी विचारण्यात येतो अन्वयाने प्रकल्प (डीपी) अद्ययावत करावा आणि रक्षाविट जगातील उभारित विकास आराखडाला सरकारी तवरने मान्यता द्यावी, अशी मागणी 'वादर्हितडीपी' उपविभागाच्या या संस्थेने केली आहे.</p> <p>शहर जेव्हा उर्ध्वीक रत्यापासून विरार आराखड्यातरी प्रकल्प आहे. विकास आराखड्याअभावी निष्काशपर्यय विरार शहराच्या शहराच्या विकास आराखड्यातरी प्रकल्प आहे. 'वादर्हितडीपी' उपविभागाच्या या संस्थेने केली आहे. 'वादर्हितडीपी' उपविभागाच्या या संस्थेने केली आहे.</p>	<p>City organisation wants state govt to approve interim DP PUNE NEWS SERVICE</p> <p>Plan: Sustainability Institute has demanded that the state government should approve an interim Development Plan (DP) for fringe areas around Pune. The DP has been framed by a group of the most professionals in the field of urban planning, architecture, environmental science and urban landscape planning.</p> <p>The DP needs to comprise the detailed plan for the hill tops and hill slopes. The DP also needs to provide for the provision of Biodiversity Parks on the hill tops and hill slopes. The DP also needs to provide for the provision of Biodiversity Parks on the hill tops and hill slopes.</p>	<p>सरदेनेविलिटी डिविजिटीडीपीची मागणी विकास आराखडाच मंजूर करा पुणे.दि. ४ (प्रतिनिधी)</p> <p>समाविष्ट २३ गावांच्या विकास आराखड्यातील वेगळ ४ टके असलेल्या जैवविविध अडान (बीडीपी) प्रकल्पाच वाढरत विषय वाजुला ठेवावा व उर्वरित संपूर्ण विकास आराखडा त्वरित मंजूर करावा, अशी मागणी पुणेकरांच्या वतीने सरदेनेविलिटी डिविजिटीडीपीच्या या संस्थेने प्रकल्पार पत्रवित्त केलेली. या वेळी उपविभागा कुलकर्णी, पूर्वा केसकर, अनघा परांजणे-पुरविलित उपस्थित होते.</p> <p>महाराष्ट्र प्रादेशिक व नागरी नियोजन अडकेच्या वेळारत २३ अन्वये एक कायदेशीर नियोजन आराखडा अस्तित्वात आणणावा, जो अमर्याद व आकास्मिक नाडीला आळा घालेवा तसेच नव्याने विलीन झालेल्या गावांतही आराररूप संरक्षणे नियोजन त्यामुळे शक्य होईल. यामुळे नियोजन साधिते हा विकास आराखडा राबकरता लवकर त्याच करता, अशी मागणी करण्यात आली आहे. याचबरोबर, १९८७च्या पुण्याच्या विकास आराखड्यामुळे टेकड्या व डोंडरतारासमोरी एक नवीन क्षेत्र (झोन) विकृता करण्यात आला होता व यार ४ टके बांधकामाची परवानगी देण्यात आली होती. पुणे महाराष्ट्रवित्तेन विविधरी सध परिसर्यातची आकडेवारी मिळविण्याची तसेच या क्षेत्रातील किती बांधकाम झाले आहे? याची आकडेवारी पुढील अरारतत व निर्णयानुसार तोच यार्यास पालिकेला मदत करेल, असे संस्थेचे म्हणणे आहे</p>	<p>पुण्याच्या विकास आराखड्यास त्वरित मंजूरी द्यावी पुणे/प्रतिनिधी</p> <p>एका कार्यक्रम प्रसंगी मुख्यमंत्री पुण्याकर बव्हाण यांनी तुकत्याच जाहीर केलेल्या डीपी (डेव्हलपमेंट प्लॅन) मध्ये ४ टके बांधकामास परवानगी दिल्याच्या पार्यभूरीवर राबव्यासाने प्रथम पुण्याच्या विकास आराखड्यास त्वरित मान्यता द्यावी, अशी मागणी सरदेनेविलिटी डिविजिटीडीपीच्या या निरागामी संस्थेने प्रकल्पार पत्रवित्त केलेली. यावेळी उपविभागा कुलकर्णी, पूर्वा केसकर, अनघा परांजणे उपस्थित होते. पुण्याच्या बीडीपी (बायोडायव्हर्सिटी पार्क)ला २००७ मध्ये मान्यता मिळाली तरी अद्याप त्याची अंमलबजावणी झालेली नाही. आता नव्याने टेकड्यावर ४ टके बांधकामास परवानगी दिल्याने डीपी मंजूर होण्यासाठी अधिक विलंब लागण्याची चिन्हे आहेत. त्यामुळे पुणे वाहाराचा काही भूभाग वाडता इतर परिसराचा डीपी अडकून राहणार आहे. यासाठी प्रथम डीपीला मान्यता द्यावी आणि नंतर बीडीपीचा विचार व्हावा अशी मागणी या संस्थेच्या वतीने करण्यात आली. तसेच राज्यसरकारने बीडीपीला मान्यता देण्या आगीरत सध्या टेकड्यावर किती बांधकाम झाले आहे याचा सव्हे कतावा आणि अंतरीम विकास आराखडा तयार करून एक कायदेशीर आराखडा अस्तित्वात आणण्याच्या प्रकल्प करावा, अशीही मागणी यावेळी करण्यात आली.</p>
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Half-day interaction with Dr. R.K. Pachauri for CREDAI at Pune 11 Jan 2012

Nobel Laureate Dr R K Pachauri was invited by Sustainability Initiatives to interact with the Developers and Architects of the city on the issue of Green Buildings. The interaction event was conducted in association with CREDAI Pune-Metro. The interactions focused specifically on GRIHA, a rating system that is developed by TERI (The Energy and Resources Institute) which is headed by Dr R K Pachauri. Over 45 developers from Pune and Pimpri-Chinchwad participated in this interaction with Dr R K Pachauri about design and evaluation of green buildings and the GRIHA rating system. Hon commissioner of Pune Mr Mahesh Pathak, Hon Mayor of PCMC Mr Yogesh Behl and Mr Sanjay Deshpande of CREDAI also addressed the audience at this programme.



Half-day interaction between GRIHA Trainers & Evaluators at Pune 12 May 2012

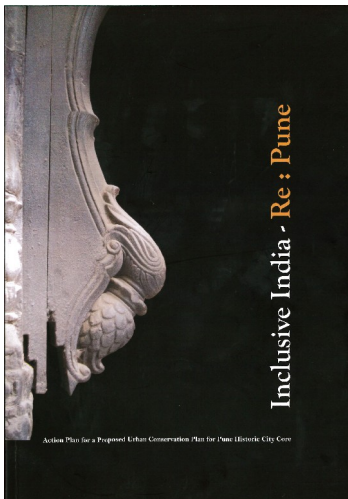
As a patron of GRIHA in the Western region, SI organised a session to communicate and interact with the GRIHA Trainers and Evaluators. Through this session, SI, presented a proposed schedule of activities for the promotion of GRIHA rating system in the region. SI initiated a dialogue on how the GRIHA Trainers and Evaluators across Maharashtra can be actively involved in the proposed activities as well as other GRIHA initiatives in the region. Ms Priyanka Kochhar from GRIHA interacted with the 40 trainers & evaluators who attended this programme which was coordinated by Ms Shruti Vaishampayan from SI.



**Launch of the Exhibition and Publication Inclusive India RE: PUNE at Kelkar Museum, Pune
18 December 2012**

Sustainability Initiatives worked closely with the professors at Royal University of Fine Arts, Stockholm, Sweden to put up an exhibition of student work on heritage conservation of Pune core city. The entire project was a Swedish International Development Agency (SIDA) funded project and involved stakeholders like BNCA, INTACH, SI and Royal University of Fine Arts, Sweden.

Experts from SI facilitated the publication that was released based on this research and also coordinated an exhibition that followed the research. A press conference was organised to inform citizens about this study and the exhibition which was organised at Raja Dinkar Kelkar museum on 18-20 Dec 2012

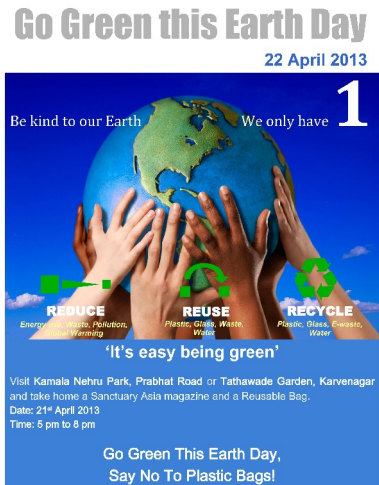


**Awareness campaign for World Water Day 2013
22 March 2013**



The festival of Holi was during a time when the state of Maharashtra was reeling under severe drought and water scarcity. Thus on the occasion of Holi and World Water Day, SI designed and circulated a poster which emphasized the need of saving water and having a water free Holi. The poster was circulated through email to the SI members and other associates and also displayed in Fergusson college, Bharati Vidyapeeth and housing societies in Pune.

Awareness campaign for Earth Day 2013
21 April 2013



SI organised a campaign on 21st April 2013 to create awareness about the harmful effects of plastic/ polythene bags. The event was organised in association with Western Routes, Sanctuary Asia magazine and Earth Day Network. About 10 SI volunteers gathered at two locations in the city: Kamala Nehru Park, Prabhat road and Tathawade Garden, Karvenagar and urged people to sign a pledge that said that they will say “No” to plastic bags and use reusable bags whenever possible. SI encouraged people to sign the pledge and do their part to save the environment. Those who signed the pledge also got a Eco-friendly, reusable bag in return of their support. Through this event SI was able to get signatures from over 500 individuals and make an impact on their minds.



Press conference to encourage citizen’s participation through opinion survey for developing the street guidelines for Pune city
30 October 2013

Pune Municipal Corporation has awarded the task of developing the guidelines for street design in Pune city to VK:a architecture. Citizens being the major stakeholders/ users of the streets, it is necessary that their opinions are also considered while making these recommendations. SI is working with VK:a architecture on encouraging people’s participation in developing these guidelines. An online survey was designed for this purpose which is circulated through emails, social media, and by partnering with schools and colleges. To make more citizens aware of this survey and to urge them to share their thoughts about the streets in Pune and their designing, SI organized a press conference to appeal to the citizens through the media to participate in this survey. The press conference was well received and the USDG was featured in number of newspapers.

Site-visits to Green buildings 2012-13

Under the outreach function SI also facilitates site-visits to green buildings and other environmentally sustainable projects. The site visits are organised for students as well as professionals and are well coordinated to ensure that the visitors get complete knowledge of all the green building technologies and design features applied on-site. The following site visits were conducted by SI:

Date	Site visited	Vis it in-charge	College/Organis ation	Partic ipants
12 Oct 2012	Suzlon One E arth campus , Hadapsar	Mr Shyam Raj (Suzlon)	Various	50
13 Oct 2012	PCNTDA building, Nigdi	Ar Usha Rangarajan	Various	20
3 Nov 2012	Suzlon One E arth campus , Hadapsar	Mr Shyam Raj (Suzlon)	Rajlaxmi group and Rizvi college, Mumbai	40
16 Mar 2013	Suzlon One E arth campus , Hadapsar	Mr Shyam Raj (Suzlon)	Sinhagad college of Architecture	20
31 Aug 2013	Suzlon One E arth campus , Hadapsar	Mr Niñin Gurav (Suzlon)	Symbiosis Ins titute of International Busines s's Mas ters in E nergy and E nvironment	35
31 Aug 2013	Orange Shrus ti, Bavdhan	Mr Sandip Sonigra (Orange County Foundation)	Symbiosis Ins titute of International Busines s's Mas ters in E nergy and E nvironment	35



Rajlaxmi group & Rizvi college visit Suzlon One Earth campus, 3 Nov, 2012



Sinhagad college of Architecture visit Suzlon One Earth Campus, 16 Mar 2013



Symbiosis Institute of International Business visit Suzlon One Earth, 31 Aug 2013



Symbiosis Institute of International Business visit Orange Shrushti, 31 Aug 2013

Capacity Building

Capacity Building through Training and Awareness is the cornerstone for achieving Sustainable development. Through Sustainability Initiatives' capacity building function we train and provide guidance to professionals, academicians, decision-makers and students for effective policy formulation, implementation and mainstreaming of best practices.

Course content development for CEES and Bridging Nations 2012 - 2013

Sustainability Initiatives has worked with an international NGO Bridging Nations to develop course structure and content for online curriculum for the College of Energy, Environment and Sustainability (CEES). Till date, we have developed online material and are conducting classes for two courses namely, Energy Efficiency in Green Buildings and Environmental Impact Assessment.

Along with the above two subjects we are also working on developing syllabus for other topics. The courses are conducted on an online platform known as Learning Management System (LMS) where the study material is in form of a slide-show with integrated audio. In addition to providing study material, SI experts also conduct weekly online sessions with the students to discuss the topics studied in the course. We have so far conducted the coursework for 3 batches of students.

One-day workshop on GRIHA rating system for PCMC officers 24 April 2012

Sustainability Initiatives organized a training programme for the officers of PCMC to give them an insight into green building design, processes adopted to design, operate and evaluate green buildings under GRIHA certification. The GRIHA registration procedures were discussed in detail during this workshop so that PCMC can undertake an incentives mechanism to reward GRIHA rated building projects. This program was organised in joint association with PCMC and the GRIHA Secretariat. Ms Priyanka Kochhar, Mr Apoorv Vij, Ar Namrata Dhamankar, Ar Poorva Keskar, Ar Anagha Paranjape-Purohit, Ar Pranati Shroff gave the 40 engineers from Environmental and Building Permissions department an overview of the GRIHA rating system. Ar Usha Rangarajan from Landmark Design presented a case study on the PCNTDA administrative building which is registered under GRIHA.



One-day seminar on GRIHA rating system for CREDAI at Nashik 14 November 2011

The CREDAI Chapter of Nashik and Indian Institute of Architects (IIA) Nashik Chapter approached SI to organise a seminar for creating awareness about green building amongst the architect and developer community in the city. The seminar was attended by more than 70 professionals. Ar Poorva Keskar, Ms Priyanka Kochhar, Mr Shirish Deshpande, Ar Anagha Paranjape-Purohit, Ar Nilesh Gandhi and Ar Hrishikesh Kolatkar trained the participants for achieving green building under the GRIHA rating system. The seminar focused on planning, designing and building of environmentally sustainable buildings and different rating under which they can be rated.

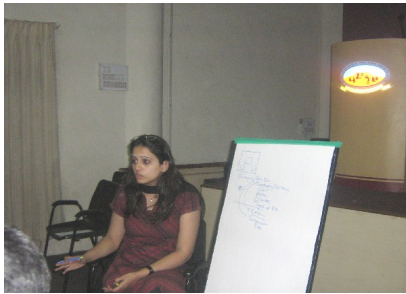


'Pune Heritage Walk' in collaboration with Janwani 19 December 2012

Pune Heritage Walk was organized by Sustainability Initiatives and Janwani. Some of the oldest heritage sites like Ghorpade Ghat, Hijammuddin Darga, Shaniwar Wada, Nana Wada, Shitole Wada, Mahatma Phule Mandai along with some of the historical temples in the city were covered in the walk. The walk was followed by a half hour Maharashtrian Cultural Programme. About 15 participants were present for this walk.

One-day workshop on Green Buildings for students at Sinhgad Institute, Pune 3 March 2012

Sustainability Initiatives conducted a green building workshop for Sinhgad Institute of Technology as part of their annual festival. In addition to presentations and lectures, a quiz and a group activity was also included in the workshop. About 50 students from architecture, civil engineering and other academic streams participated to understand the concepts of green building and also get some hands-on knowledge of conceptualizing and designing Green buildings. Ar Shruti Vaishampayan, Ar Pranati Shroff, Ar Namrata Dhamankar and Ar Kanchan Sidhaye conducted this workshop.



One-day workshop for IGBC Pune Chapter 25 August 2011

Sustainability Initiatives organized a green building workshop in association with IGBC Pune Chapter at Suzlon One Earth. About 40 students and professionals participated where distinguished speakers explained the concepts of green building. A group hands-on activity was conducted for the participants for better learning of concept of green buildings. Ar Anagha Paranjape-Purohit, Ar Poorva Keskar, Ar Pranati Shroff, and Ar Namrata Dhamankar conducted this workshop.

Workshop on 'Green Building and Environmental Impact Assessment' at MHADA 23-24 July 2013

MHADA officials were introduced to Eco-housing and Green Building concepts along with Environment Impact Assessment procedures in India through this training programme. The aim of this two-day workshop was to build awareness regarding Environmental issues and Environmental Impact Analysis procedures and introduction to environment-friendly building techniques, Green rating systems in India and their certification mechanisms, benefits of Green Building. The 50 participants of the training programme were engineers from Housing Boards all over Maharashtra, like Pune, Nashik, Solapur, Nagpur, Mumbai, etc.

Three-day workshop and examination for GRIHA Trainers and Evaluators at Nashik 17-19 May 2012

Sustainability Initiatives organized a hands-on training programme in association with MEDA and the GRIHA secretariat at Nashik. The objective was to train participants to become GRIHA Trainers and Evaluators. The aim of this training programme was to impart training on the compliance, assessment & evaluation of all 31 criteria for buildings/ projects to be rated under GRIHA and to help enhance knowledge on green buildings. Expert trainers from GRIHA, TERI and Sustainability Initiatives, Ar Apoorv Vij, Ar Anagha Paranjape-Purohit, Ar Poorva Keskar, Ar Pranati Shroff, Ar Hrishikesh Kolhatkar, Mr Shirish Deshpande, Dr S Rajkumar, were the faculty for this workshop. An examination, to get certified as GRIHA Evaluator and/or Trainer was conducted. Out of the 48 participants in the workshop, 13 passed the Evaluator and/or Trainer examination.



'Environmental Impact Assessment' workshop at Fergusson College, Pune 13-15 September 2012

Sustainability Initiatives conducted a 3-day workshop on Environmental Impact Assessment (EIA) for the environmental science students of Fergusson College. About 50 participants were briefed by experts including, Ar Anagha Paranjape-Purohit, Ms Pratima Raykar, Ms Gouri Joshi and Mr Shirke among others who talked about the basics of EIA study, evolution of EIA and the process of assessment. An interesting group exercise was conducted at the end of the workshop where the students were given a hypothetical highway development case for analyzing the alternatives based on their impact on the surrounding environment. Students enjoyed working on this exercise and the presentation that followed. The participants were also given field training, in the Botanical garden of Fergusson College, for conducting an ecological survey.



One-day workshop on 'Environmental Impact Assessment' at Yashada 24 January 2013

A 1-day training programme was conducted at Yashada to introduce the participants to Eco-housing and Green Building concepts. The aim of the workshop was to build awareness regarding environmental issues and introduction to environment-friendly building techniques, Green rating systems in India and their certification mechanisms, benefits of Green Building.

GRIHA Regional Conference 'Towards Urban Sustainability- the GRIHA approach' at Pune 12-13 October 2012

This 2-day conference on Urban Sustainability brought together experts and activists from various fields that work in the sector or Urban Sustainability. The conference was addressed by prestigious and eminent speakers like Dr Madhav Gadgil, Dr Ajay Mathur, Mr J R Tanti, Ms Mili Majumdar, Ar Marcus Wilshere, Mr Arun Deshpande, Ar Rajiv Mishra, Mr Vinay Hardikar, Ar Jayesh Hariyani, Ar Leonardo Pasin, Mr Sanjay Kulkarni, Ar Anshul Gujarathi, Ar Usha Rangarajan, Ar Priyanka Kochhar, Ar Shreya Dalwadi, Mr Farhath Mirza, Mr Kapil Trimal, Mr Sameer Belvalkar, Ms Urvi Desai, Dr Prakash Barjatya among others. The conference focused on the discussion of the broader issues of urban sustainability and how GRIHA approaches this goal through its certification mechanism. The speakers put forth their views on how the goal of urban sustainability can be achieved through policy mechanisms at national as well as community level. The participants also got a chance to interact with Ar Marcus Wilshere and experience the interactive urban planning tool designed by him. At the end of the first day participants were given a tour of the Suzlon One Earth Campus and on the second day a visit to the GRIHA Rated PCNTDA building was arranged, both of which are exemplary green buildings. The conference was attended by over 300 participants and guests from fields of architecture, real estate, environment, urban planning, and engineering among others. About 20 volunteers from Fergusson college, VK:e environmental and Sprout office assisted Sustainability Initiatives team during the event.



Half-day seminar on PCMC's GRIHA initiative at Pimpri Chinchwad 22 January 2013

A half day event was organised at the Auto-Cluster auditorium to promote the incentives scheme offered by PCMC for GRIHA buildings. The programme was organised to connect with the developers and understand their views regarding GRIHA rating system and the incentives scheme offered by PCMC for GRIHA rated buildings. Representatives of CREDAI-PCMC, Marathi Bandhkaam Vyavasaiik Association (MBVA) spoke of behalf of the developer community. The aim of this programme was to interact with the developers to understand their expectations and encourage them to get their buildings rated under the GRIHA rating system. Ar Mili Majumdar, Ar Priyanka Kochhar, from GRIHA Secretariat, Mr Bhaskar Deol from Natural Resources and Development Corporation (NRDC) and Hon. Commissioner of PCMC Dr Shrikar Pardeshi addressed the 100 developers, architects, consultants and PCMC officers present at this programme.

Workshop on Energy Conservation and ECBC collaboration with MEDA 27 January 2013

A one day workshop was organised by Sustainability Initiatives in collaboration with MEDA for capacity building on the compliance with Energy Conservation Building Code (ECBC). The workshop covered various topics like a brief overview on energy scenario in India, energy conservation and energy efficiency through compliance with ECBC.

SVAGRIHA seminar at Pimpri Chinchwad 22 August 2013

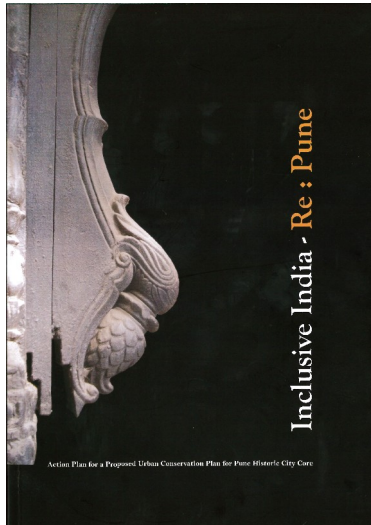
This programme was organised by Sustainability Initiatives to announce the incentives offered by PCMC for buildings rated under SVAGRIHA rating system and was organised at the Auto-Cluster auditorium in Akurdi. This programme also introduced the SVAGRIHA system which is a design-cum-rating tool for buildings with built-up area less than 2500 sq.m. and the incentives offered by PCMC for buildings rated under this rating system. Mr Apoorv Vij and Ms Priyanka Kochhar from GRIHA secretariat briefed the participants on the SVAGRIHA rating system. Hon Commissioner of PCMC Dr Shrikar Pardeshi, Mr Sanjay Kularni of Environmental cell, Mr Pathan of Building Permissions department, Mr Kacchi of Town Planning department were some of the other officials present for this event. Over 120 developers, consultants, architects, PCMC officers participated in this programme along with representatives of the media.



Publications

Inclusive India– Re:Pune Dec 2012

Sustainability Initiatives, along with the Royal University of Art, Stockholm, Dr Bhanubai Nanavati College of Architecture, Pune and Intach Pune chapter published a book which features an action plan for the conservation of the historic core of Pune city. The publication is based on an extensive research on the heritage buildings and sites in Pune and the need to retain their existence. The research was jointly conducted by the students of Dr BN College of Architecture, Pune and Royal University of Arts, Stockholm.



To receive a copy of this publication, write to us on mail@sustainability-initiatives.org

SI and People

SI Memberships

Until October 2013, SI had 10 professional and 48 student members. SI Membership offers an unique opportunity to connect with like-minded people to develop ideas and concepts on sustainable built environment, urban planning, environmental awareness and sustainability in general. It offers a platform for professionals as well as students to network and develop ideas on sustainability concepts. Students, professionals, academicians, retirees, business owners or individuals from any sector who are interested in contributing to or pursuing careers in the fields of sustainability, environment and energy can become a member of SI.

Benefits to members:

- Opportunities to initiate and lead projects in association with SI
- Guidance for academic/ research projects
- Learning sessions, networking events, meetings with professionals, etc. for career development
- Subscription to SI magazine- SI:Imprint
- Discounts at SI events/ workshops and for SI publications
- Discount in membership fees for SI:KRIS the online resources library
- Paid/ unpaid opportunities for students to volunteer/ intern with SI

SI Website

SI launched its website (www.sustainability-initiatives.org) on the occasion of World Environment Day on 5th June 2012. The website was created and designed by the SI team and included details of all the past and ongoing projects of SI. In due course of time we thought that the website should be more simple, informative and attractive. Our new website, reconfigured in August 2013, sports a new look that is simpler and attractive and gives ease of access and information about all our projects and activities. The events feature on the new website helps update the visitors on the upcoming events and activities of SI.

SI Facebook page

SI has created its Facebook page to increase its outreach to the community. Through the Facebook page, we can reach a larger audience and stay connected to them on a daily basis. Updates about SI activities, events as well as empowering of citizens through sharing various initiatives is made possible through this page. The Facebook page is helping SI to connect to individuals, other organizations and government officials across the world.

SI: Links

SI runs an active internship program under the name SI:Links to mentor students looking for practical experience along with core technical learning. We provide them an opportunity to work on on-going projects and interact with our partner organizations and professionals during their project assignments. We also guide them to choose their academic and professional career path and recommend them for job opportunities in the future. We have trained interns from Fergusson college, Pune, Symbiosis Institute, Pune, College of Environmental Planning and Technology, Ahmedabad and College of Engineering, Pune and Kanagawa University in Japan.

Testimonials from our Interns

"I volunteered for the 'Tree census' project in Pune in 2011-12 with my classmates where I got experience of data collection and systematic documentation. SI has helped me understand the challenges and practical issues during field work. I also got an opportunity to facilitate a 3 day EIA workshop organized by **SI** and **Envision** in my college."

- **Ajinkya Pathak**, Msc. Environmental Science, Fergusson College. (2012)



"It has been a great learning experience while working with SI for the environmental audit project. I had an opportunity to improve my analytical skills as well as gain knowledge about energy management for office buildings. I have also been able to know more about Indian culture, education system, work environment. I'd like to work with SI again in future."

- **Ryo Minomiya**, Electrical Engg. Japan. (2013)



"Working with SI hasn't just been fun but has also given me great exposure as a content writer for the SI magazine. The kind of work assigned to me has made me more aware of the social and environmental issues in Pune. All in all it has been a great training for my future endeavors in the media sector. "

- **Anuradha Pandey**, Symbiosis Institute of Media and Communication, (2013)

Associations

This journey of SI was made possible with the association of various organizations. SI has associated with various organizations from time to time for different events and projects. It is through such associations that it was possible for SI to successfully organize the activities listed in this publication.

The various organizations that SI has associated with since November 2011 are:

Aapla Parisar

Architects, Engineers & Surveyors' Association (AESA)

College of Energy, Environment and Sustainability (CEES)

College of Environment & Planning Technology (CEPT)

CREDAI- Pune Metro Region

CREDAI- Nashik

Dr. B N College of Architecture for Women (BNCA)

Fergusson college & Envision Club

Green Rating for Integrated Habitat Assessment (GRIHA)

Indian Institute of Architects (IIA)

Indian National Trust For Art and Cultural Heritage (INTACH)

Indian Society of Lighting Engineering (ISLE)

Indo-Italian Club for Infrastructure and Building (IICIB)

Janwani

Kushal

Maharashtra Energy Development Agency (MEDA)

Mrityunjay Ashram Trust, Phaltan

Nashik Municipal Corporation (NMC)

Pimpri Chinchwad Municipal Corporation (PCMC)

Pune Municipal Corporation (PMC)

Pune Mahanagar Parivahan Mahamandal Limited (PMPML)

Sprout: Greening Design

The Energy and Resources Institute

The Royal Institute of Arts (KKH)

The Western Routes

VK:a architecture

VK:e environmental

VK:i interiors

Looking ahead at 2014

Pune Bus Route Mapping

The Pune Mahanagar Parivahan Mahamandal Limited (PMPML) operates buses on around 380 routes in the Pune and Pimpri Chinchwad jurisdiction area. The details of all the bus routes are available online, however majority of the bus passengers are unaware of this website and are unsure of the service available for their desired bus routes and travel times leading to inefficient and hassled travel. This causes them to switch to other modes of transport. The major transfer terminals like Swargate, Deccan, Pune station, Corporation etc. also face commotion during peak hours. Sustainability Initiatives has planned to develop graphical maps of the bus routes on which the PMPML operates, using PMPML route data. The maps will be specific to each location and enable passengers to find their travel route easily. These maps will be placed on bus stops and will use easy to understand and interesting graphics like color coding to display routes.

Best Environmental Practices Book

Sustainability Initiatives are in the process of compiling a publication of the best environmental practices. This compilation will include case studies of environmentally sustainable buildings and innovative use of green design and technology in buildings in and around Pune. The publication focuses on key theme areas and touch upon all facets of sustainability in the built environment. The case studies will address all the aspects from green lifestyle to climate responsive design; from technology and materials to resource management. Any project/building which responds to nature or follows practices to conserve resources, will find a place in the book. We at Sustainability Initiatives intend to recognize & document such initiatives of small and big ideas to render as an inspiration and guide for designers, architects or any individual. It will also serve as a guidebook for visitors who want to visit environmentally conscious buildings in the Pune region. Several experts from different sectors are being consulted to share their own projects as well as list down other successful green initiatives fit for inclusion in this publication.

SI: KRIS Knowledge Repository and Information System

Sustainability Initiatives' KRIS is a content management system based website portal that systematically captures, organizes and categorizes knowledge, and makes it accessible for reference or download. Our team has worked on pooling available resources and data, so that SI members as well as other students, professionals, architects, planners, thinkers, developers and decision makers can benefit from the collective knowledge database that will be made available through this repository. The knowledge base will include government documents of rules & regulations, various resolutions passed from time to time, maps, historical documents, photos, legal documents etc. which will be accessible to registered members through a plug-in on our website.

Seminars

'Urban Ecology'- In December we have an expert coming from USA, Dr Edward Cook from Arizona State University, USA, to give us an insight in 'the planning of the hill tops and hill slopes of the city and policies on biodiversity reservations across the world'.

'Lifestyle Workshop'- Sustainability Initiatives is organising a workshop which will help individuals to reduce their impact on the environment. The workshop will teach participants 'How to calculate their carbon footprint', the ideal values and how they can reduce your impacts.

'Careers in Environmental Management and Sustainability'- In association with Ekonnnect and Environmental Management Centre, Mumbai, we will be organising a seminar for guidance on career opportunities in Environmental Management and sustainability. This event will give an opportunity for participants to know more about careers in the environment sector, upcoming fields and also network with industry experts.



Sustainability Initiatives is a charitable trust registered under the Bombay Public Trusts Act, 1950 in Pune region, India

Registered address: 17B Pinnac Garden, Next to Kokan Express, Kothrud, Pune 38

Registration no.: E- 5809 (Pune)