



SASKEN

Sasken Environmental Sustainability Initiatives 2020



About Sasken



Sasken Technologies Limited (formerly Sasken Communication Technologies Limited) is a technology and service provider based in Bangalore, India, which provides product engineering and digital transformation services to global customers in industries such as semiconductors, automotive, enterprise grade devices, smart devices and wearables, industrials, satcom, and telecom.

Environmental Sustainability Vision

Dear Sasian

Our needs of today must be taken care of in such a way that it does not negatively impact the needs of coming generation. That is in my view is equality in real sense. The idea of sustainability at Sasken should be to create a balance between our ecological, social and economic needs, however small it is !. I encourage each of the Sasisan to think on these lines. Contribute your bit on this. Take pride in talking to the whole world about this. Realize that each one of us is a Change agent. ..for the better future of our coming generation ... My commitment is to support and encourage every such Initiatives at Sasken. Unconditionally ...

Warm regards,

Rajiv C Mody

Chairman, Managing Director & CEO
Sasken Technologies Limited

Synopsis:

It is critical to protect the environment to reduce the destruction of eco-systems caused by all of us. It is more of a moral obligation for humans to protect the environment from pollution and other activities that lead to environmental degradation. Importantly, environmental degradation is detrimental since it threatens the long-term health of the animals, humans and plants.

Air and water pollution, global warming, smog, acid rain, deforestation, wildfires are just few of the environmental issues that we are facing right now. It is everyone's responsibility to take care of the environment to make this planet a wonderful place to live. One does not need to put lot of money to go green, but simple changes in daily lifestyle is all what is required to reduce your carbon footprint.

We at Sasken have taken many such small and simple steps towards reduction in environment pollution. What started as vision of our CEO, it has become a fundamental back bone of every process in Sasken. Every process be it engineering or administration or finance, the first question asked is that "how much of Carbon foot we can you reduce by following this process?". And we believe there is a scope to reduce Co2 emission /pollution in each activity we do undertake in our corporate life as well as in our personal life.

Sustainability Milestones at Sasken

2001

Eco-sustainability Initiatives taken within the campus

STP plant recycles 500KL water every month, which is used for flushing in rest rooms
- Saves that much of fresh water and reduces 0.05 Ton Co2 per month

Reduce Paper Project kick started, continuing even today.
We save 25000 sheets every year, equivalent to saving 230 Tress a year!

2007 - 2020

Reduce -Reuse- Data backup Tapes, project kick started

2007

2011

Most critical documents converted to E-documents sans printing

Extending the life of Desktops and Laptops: Donate and support under privileged schools in the far of villages

2012

Mandatory E-learning module on Environment Care is launched. Train, educate Motivate is the mantra to drive the initiatives on Environment

250 no's Tube lights in the 2 vehicle Parking floors completely converted into LED lights, lit through roof top DC-Solar plant

2014

2015

Initiatives Taken for the Community

Solar lighting project for Belgavadi village: Lighting of all 300 houses in the village with Roof top DC-Solar.

2016

Reduction in paper and plastic usage - Removal of paper cups and plastic stirrers from café and pantry operation-, saves 2.1Ton Co2 per month and makes it almost a zero-waste pantry

Starting Organic Farming in the company owned land. Providing Organic vegetables to employees and there by protection from soil erosion, contamination

2016

2016

2017

CFL lights replaced to LED lights with motion sensors, further reduces elect consumption by 14K units/Month and help us reduce 10 tons Co2/Month

1.2 Tonner Dry leaf composting unit setup in Domlur ward ensuring no open burning of dry leaf in the ward area.

2017

Setting up RO plant to ensure reduction of CO2 and elimination of Plastic usage

Converting 80% of the Electricity consumption in the campus to Green Energy source (Wind Pwer)

2018

2019

Bio-Gas Plant to treat wet waste in-house reduce in order to minimize land contamination and Air pollution

Seed ball making drive to plan trees in a barren land – total of 5000 Seed balls made by Sasken employees

2019

2019

E-Waste Collection Drive was organised for the Amarjyoti Layout residents with the help of Sasken Prakriti team & NGO EnSyed

2019

While we add new initiatives every year, each of the above program is sustained year after year and we are seeing tremendous process improvement as well and benefits from these initiatives.

Initiative 7: Reduce wastage of Potable water

Despite the simple truth that there is no life if there is no water, human beings have been systematically wasting this primordial source of life.

World body reminds that every time “we use water, we produce wastewater. And instead of reusing it, we let 80 per cent of it just flow down the drain. We all need to reduce and reuse wastewater as much as we can.

Key Facts About water is: (source world water day)

- Globally, over 80% of the wastewater generated by society flows back into the ecosystem without being treated or reused.
- 1.8 billion people use a source of drinking water contaminated with faeces, putting them at risk of contracting cholera, dysentery, typhoid and polio.
- Unsafe water, poor sanitation and hygiene cause around 842,000 deaths each year.
- 663 million people still lack improved drinking water sources.
- By 2050, close to 70% of the world’s population will live in cities, compared to 50% today.
- Currently, most cities in developing countries do not have adequate infrastructure and resources to address wastewater management in an efficient and sustainable way.
- The opportunities from exploiting wastewater as a resource are enormous. Safely managed wastewater is an affordable and sustainable source of water, energy, nutrients and other recoverable materials.
- The costs of wastewater management are greatly outweighed by the benefits to human health, economic development and environmental sustainability

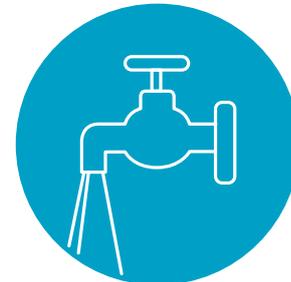
What do we do then?

At Sasken, every drop of wastewater is recycled and reused. In our corporate campus we recycle almost 500KL of water every month, which almost fulfils our need for common usage (like rest room, gardening, cleaning etc).

Each of the water flow areas (like Taps in the wash basins) is fitted with Improved version of Aerators, which arrests 60% water flow compared to a normal tap there by reducing the wastage of the potable water.

A constant education on this to the users in the form of mailers, communication, demos has resulted in drastic water saving in the campus.

We are proud to say that at Sasken “Every Drop” of water is used judiciously and there is no word called “Waste Water”.



Power consumption & Carbon footprint

Since work from home was initiated due to Pandemic, our power consumption was reduced by 40%.

Carbon footprint of Sasken is reduced by 96%, However as our CSR projects offsets avg. 10 Ton Co₂/month we became carbon positive by Avg. 7 Ton/Month, during WFH:

- Total Emission from Apr 20 to Dec 2020 - 55 Ton
- Offsetted due to CSR project - 103Ton
- Carbon Positive - 41Ton

Carbon footprint (Ton Co₂/Month)

Description	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
Carbon emission	1.64	10.32	3.33	8.03	7.32	11.74	3.13	2.69	7.00
Offsetting for CSR projects	10.38	10.38	10.74	10.65	10.75	22.29	10.78	10.75	10.75
Carbon Positive (Tons)	8.74	0.06	7.41	2.62	3.43	10.55	7.65	8.06	3.75

Health & Safety Aspect was take care to contain Covid-19 infection

Sr. No.	Preparedness against Covid-19 Virus	Who	Status
1	Enhance the BCP document to cover the preparedness/ Communication plan in case of an influenza impact	FMS/IT	Implemented
2	Deploy screen savers across Sasken to communicate the Do's and Do not's in the event of Influenza incident	IT	Implemented
3	Procure few Masks and retain at FMS end for any emergency	FMS	Implemented
4	Add Deep Fumigation cycle for the facility to be done during weekend	FMS	Implemented
5	PANTRY boys to wear Masks	FMS	Implemented
6	Cleaning cycle of common are (with disinfectant) like conf table, reception chairs, common area phones, pantry area, café tables to be increased	FMS	Implemented
7	Briefing to Outsourced support staff on the do's and don'ts	FMS	Implemented
8	Increase Hand Sanitizer spots in the premise	FMS	Implemented
9	Infrared thermometer check at entry points	FMS	Implemented
10	FMS support staff to be made available 24x7	FMS	Implemented
11	Verify the Hospital contacts in our BCP and Update the same	FMS	Implemented

Rain Water Harvesting

One of the prominent aspects of environmental sustainability is water conservation. Groundwater is the primary source of freshwater that caters to the demand of ever-growing domestic, agricultural and industrial sectors of the country. Over the years, it has been observed that the exploitation of groundwater resources for various everyday domestic needs, like drinking, toileting, bathing and cleaning; and, agriculture, industrial and ever-changing lifestyles with modernization is, leading towards tremendous water wastage.

According to Met department, the average rainfall that Bengaluru receives, has been documented as 970-975 mm, with the average number of rainy days as 60 in a year. This is huge advantage for Bengaluru. If rainwater is harvested effectively, there is a possibility to reduce water scarcity at least by 30% in the city. For this to happen each institution be it Govt or private, households, farms and parks should setup effective Rainwater harvesting solution.

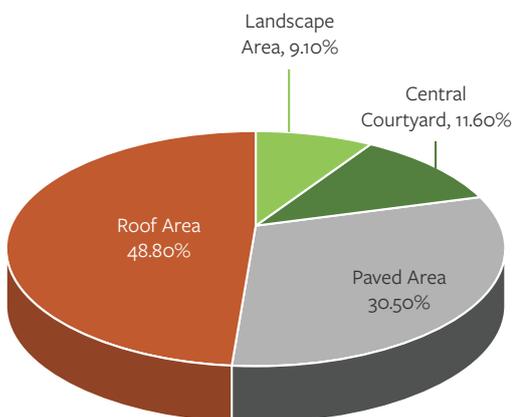
Rainwater harvesting at Sasken - Project Overview:

- Project start Date: 01 Oct 2020
- Project implemented date: 11 Nov 2020

Assessment on Water Runoff in Sasken Campus:

- The average rainfall that Bengaluru receives, has been recorded as 970-975 mm, with the average number of rainy days as 60 in a year.
- Roughly 6000 KL of water can be redirected to recharge wells in each monsoon in our campus.

Sr. No.	Type of land in use	Area in Sq meter	Runoff coefficient	Annual runoff at 974.5 mm rain (KL)
1	Roof area	4000	0.9	3600
2	Paved area	2500	0.9	2250
3	Central courtyard & Landscape area	1700	0.2	340
	Total	8200 Sq. mtr		6190 KL



- Our annual water demand is 7800 KL
- Water usage per day is 25KL (26.3 Litre/person/day - at an average of 950 employees in the campus)
- If we, annually recharge the ground water with 6190KL water, the net water requirement can be considered as - 4.8 KL (5 Litre/Person/day)
- This effectively means that in an ideal scenario 79% of water can be returned to earth.
- To bring this into effect 10 No's of Soak tanks and 1 open well were constructed
- Pit is covered with a strong concrete lid, making it a Soak Tank.
- This soak tank can store the water depending on the volume of the tank and gradually soak that water into the ground ensuring no loss of water

Soak tank construction at campus, in pictures:



Digging of soak tank



Installation of Concrete rings



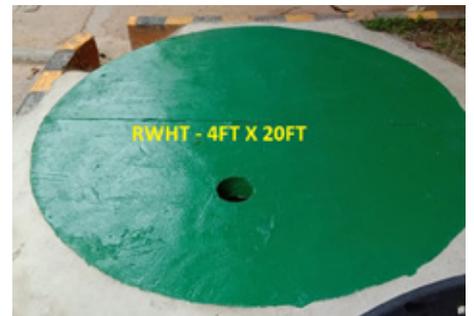
Soak tank surrounding covered with gravels



Double layer filter installed for the soak tank



Soak tank with filter membrane



Finished Soak tank covered with a layer of mesh and concrete cap



One open well created in Campus

Conclusion:

Harvesting and collection of rainwater is an adequate strategy that can be used to address the problem of water crisis we are facing. The use of a rainwater harvesting system provides excellent merits for every community. This simple water conservation method can be an incredible solution in the areas where there is enough rainfall but not enough supply of groundwater. It will not only be the most sustainable and efficient means of water management but also unlock the vista of several other economic activities, leading to the Empowerment of people at the grass-root level.



Donation of used products for secondary use:

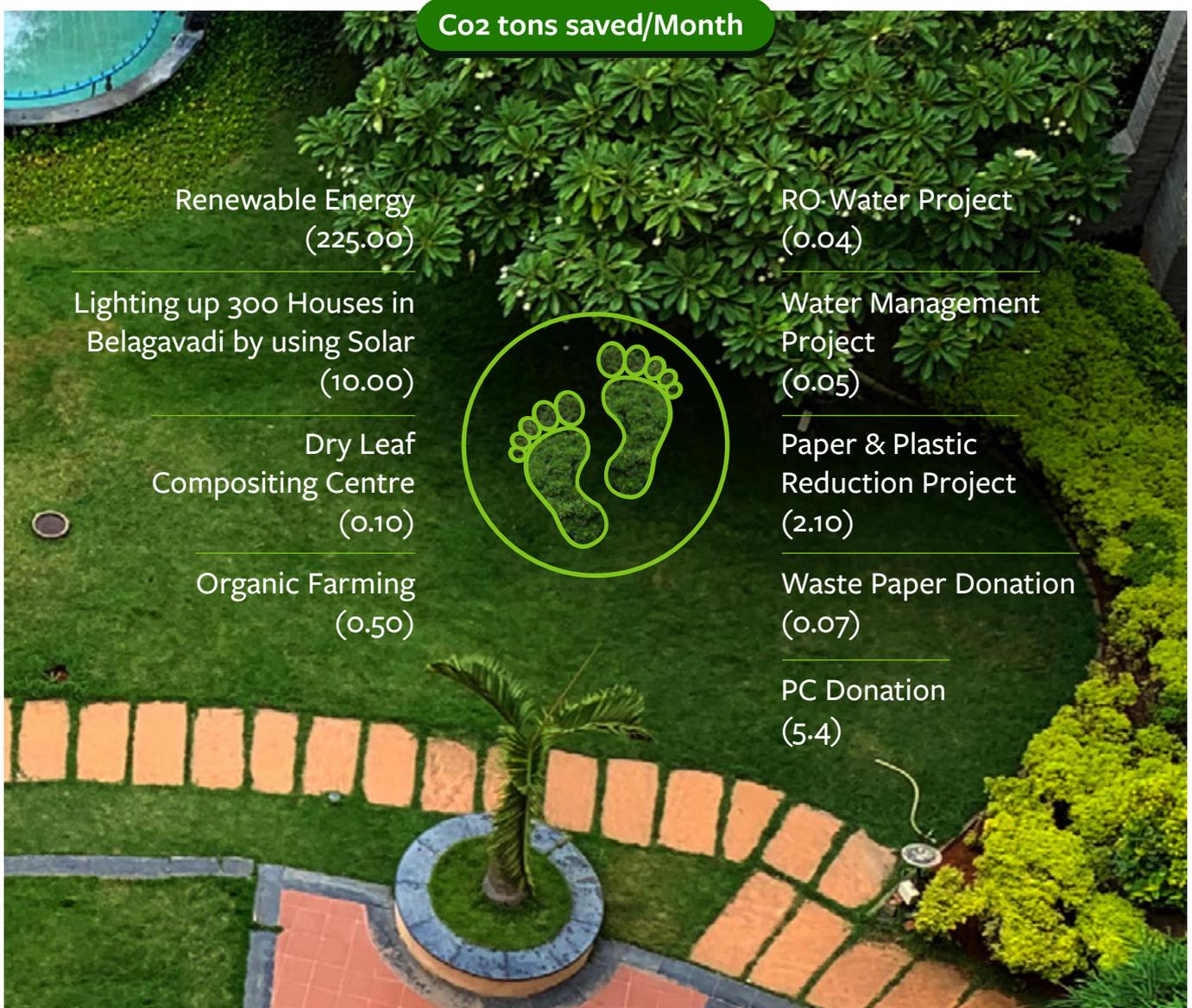
- Donation of 46 PC's to various schools and NGO's
- Donation of old light fittings to NGO BalUtsav

Bal Utsav was putting together plans for rebuilding of schools. The lights fittings were utilised for restoration work across 106 schools in 2 districts. 84 schools fall within Tiptur in Tumkur district and 22 schools are located in Shimoga & Bhadravathi taluk. The light fittings donated by Saskaen have illuminated classrooms and changed the lives of around 15000 students.

Description of Electrical Fitting	Image of Electrical Fitting	Quantity (nos)	Comment
4 Feet fitting (36 Watt)		380	
2 Feet fitting (18 Watt)		170	
Round type (10 Watt)		150	
Square type (36 Watt) with packing		338	169 boxes with 2 fittings each
Square type (36 Watt) without packing		150	



Sasken's Initiatives at glance



At Sasken we always do our best to do our part in protecting mother earth. As the year pass by challenges have changed so also technologies. Being aware of what harm we are creating is essential. Through our robust process and policies, we are trying to make each employee of Sasken, its vendors, its customer aware of what we can contribute to this environment in a positive way. However small it is, we take pride in doing this. Over the years the results are showing that we are on right path in contributing our bit to save this beautiful plant. We promise to continue in this path, with more responsibility and with more assurance to make our future generation not to suffer for our mistakes.



Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it's the only thing that ever has.

- Margaret Mead



Small but Sure Impacts:

While we have taken up a dozen of initiatives which have had a bigger impact, there were many other smaller initiatives through the year to compliment the bigger initiatives. Some of them are unique in nature and are listed below:

-  Echo Ganesha making workshop for employees
-  Garbage Man Day celebration for Poura Karmikas
-  World Environment Day celebration
-  Echo-Holi drive
-  Tree Plantation drive
-  Work shop for Making and using Natural cleaning agents
-  World Earth Day drives
-  Craft From Waste. Workshop
-  Learning module for Ecological Sustainability for all the new inductees to the organization





SASKEN



Prakriti stands for the primordial state of all creations in the planet. It signifies life itself!

'Pra' means the beginning, while 'Kriti' stands for creation or composition. As humans, we have the responsibility to ensure that life extends beyond us.

Prakriti is a Sasken initiative to bring together ardent advocates of environmental and ecological sustenance.



Interested to know how Prakriti works in Sasken?
Write to us: prakriti@sasken.com