

Introducing CSE's Gobar Times Green Schools Programme







About CSE

Centre for Science and Environment

- a New Delhi-based public interest group.
- Raises issues of concern
- Informs people, influences public thinking
- Creates public opinion And Catalyses Change







GSP and Design Practices

What does 'building green' really mean?

and

What role does the Green Schools Programme play in that?







No more clones please!

Architects, designers are thinking differently. No more building energy guzzlers first and then trying to fix the leaks.

The New Formula:

Building green=Optimizing local ecology=planning efficient resource-use=setting new building codes







GSP and Design Practices

Current policy status:

- National Building code touches resource efficiency standards as afterthought.
- Energy Conservation
 Building Code is voluntary.







GSP and Design Practices

The new formula will only work if the USERS want it. And are willing to practice it.

Therefore,

Setting a new Behavioral Code is critical.

GSP does that.







Why Schools?

A.Because they are an ideal breeding ground:

Of mindset.Of practices.

B.Because they are the fastest growing sector:

Education Act signals explosion of structures. Strategic planning can have revolutionary impact.









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Beyond Books

A do-it-yourself hand book on how to audit water, air, energy, waste, and land, within school premises.

Students and teachers come out of classrooms—to count, weigh, measure, explore and analyse.







Helping hand

- □They rate themselves as environmental managers.
- □And then plug the gaps identified in current practices.

GSP is a smooth curriculum fit







Why GSP is a must?

- ☐ It is a tool to teach environment in the right perspective. Especially in a nation where Economy thrives on Environment. Its about real life and livelihood.
- ☐ It assembles authentic data on status of resources and to identify trends. It clearly indicates what do we need to do, where and how.







Under the scanner

scanner Water







Land





Energy



Waste







SCH

Our partners

GSP institutionalised.

5 state governments adopt it.

Other partners:

- 8 state school networks
- 3 Union government chain Manual translated in 6 languages. 15000-strong

network.



Water

- ☐ The rating is on:
- ☐ How much does your school use?
- ☐ Are the sanitation facilities adequate?
- □ Are conservation practices in place?
- **□** Does it harvest rainwater?
- ☐ How much does it recycle?







FOGRAMM



Water audit team of Kerala Public School, Kadma, Jamshedpur



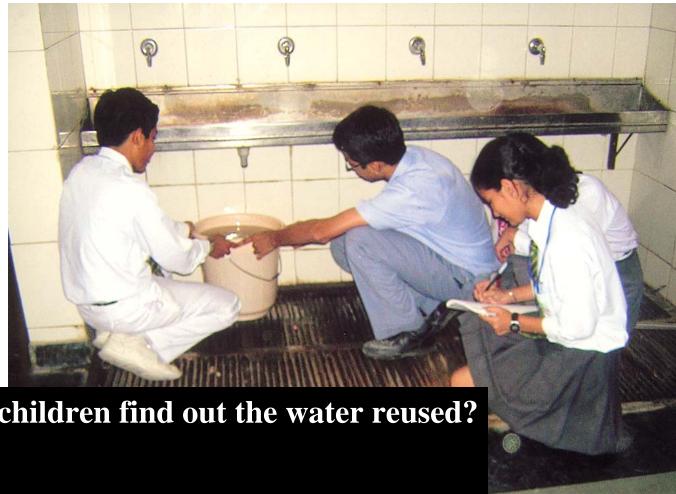




Water audit team of Adarsh School, Vikaspuri, New Delhi







How would children find out the water reused? -Monitor it.

Evergreen School, Delhi







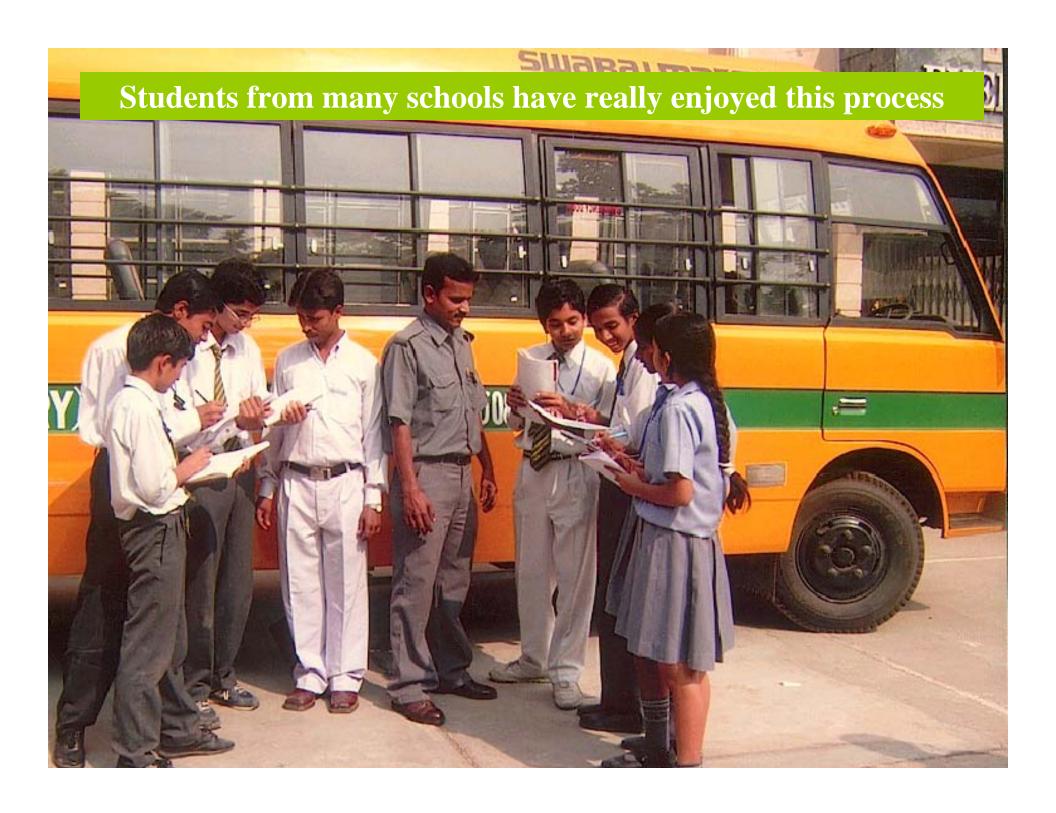


The rating is on:

- □What is the air quality in the locality?
- ☐ How does the school community commute?
- □How eco-friendly are the school-run vehicles?

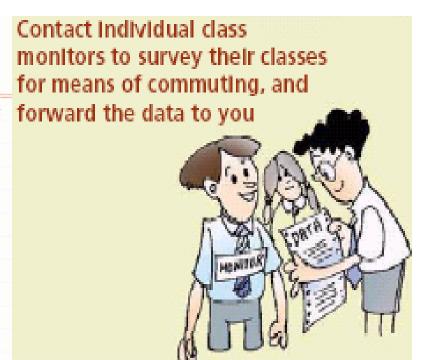






Class VIII - A Group No: 5\$6

	NAME	VEHICLE	DISTANCE
1	Solvieti Kapoor	Van	4
2	Acueusho Shauma	R+v	‡ 3
3	Albi Thomas	Bus	lo
4	Amour percet Kaur	Van	
5	Agarra Muriba	Rickshaw	1.5
6	Ambreen Baro	Rickshaw	
7	Amam Querestin	Rickstow	1
8	Ann Basu	Van	4
9	Anush siby	Bus	10
10	Bhanina Anora	Bus	5
11	Deepourshi Saggi	Bus	8
12	Diksha Mongea	Bus	
13	Diksha Jerehan	Metro	
14	Divya Tha	Rickstran	0.5
15	Gatha Sengal	Van	
16	Habiba Ighal Saced	Psus	3
17	Himani Sharma	Rtv	6
18	Ishita singh	Bus	
19	Typu gupit	Bus	
20	. () . V 1	Van	11
21		Bus	6 15
22	Keriti Ausoa Shauma	Rickstran	
23	Keiti Metral Strauma	Bus	
24	Mehrican Fatima	Richestrone	1.5
25	Mandita sharma	Bus	



This is a commuter audit of Class VIII A in Presentation Convent, New Delhi.

Similar audit needs to be done with each member of the school community of the



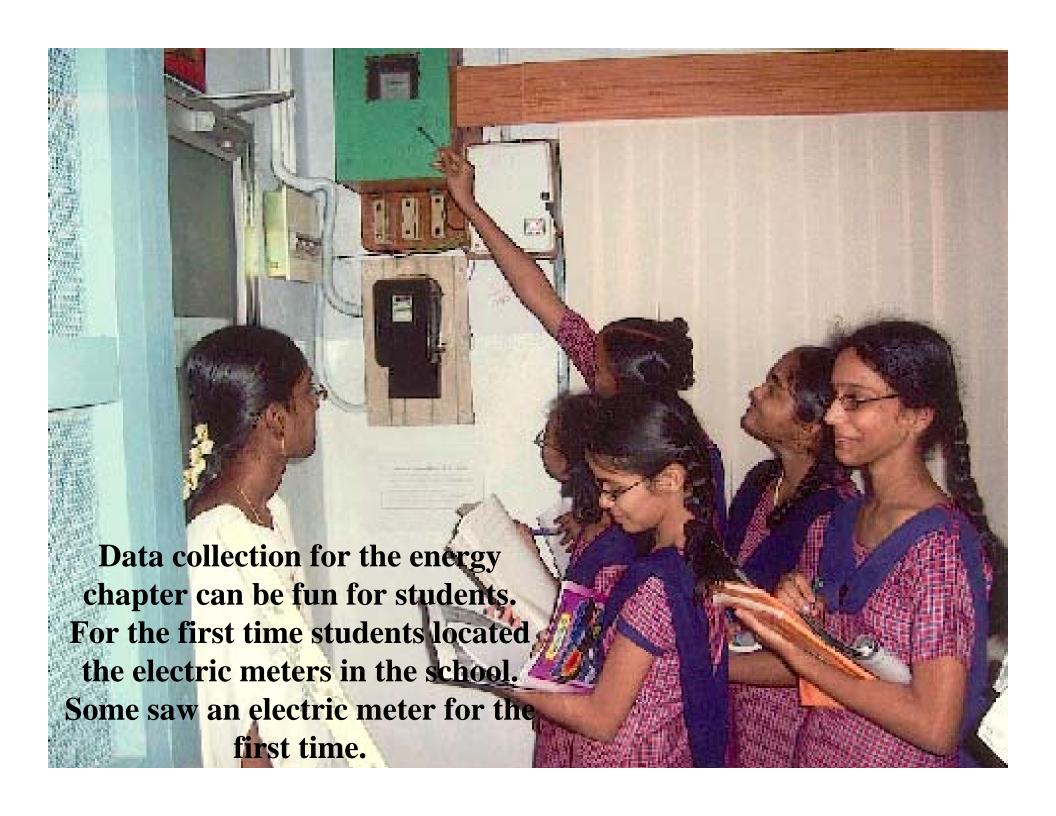


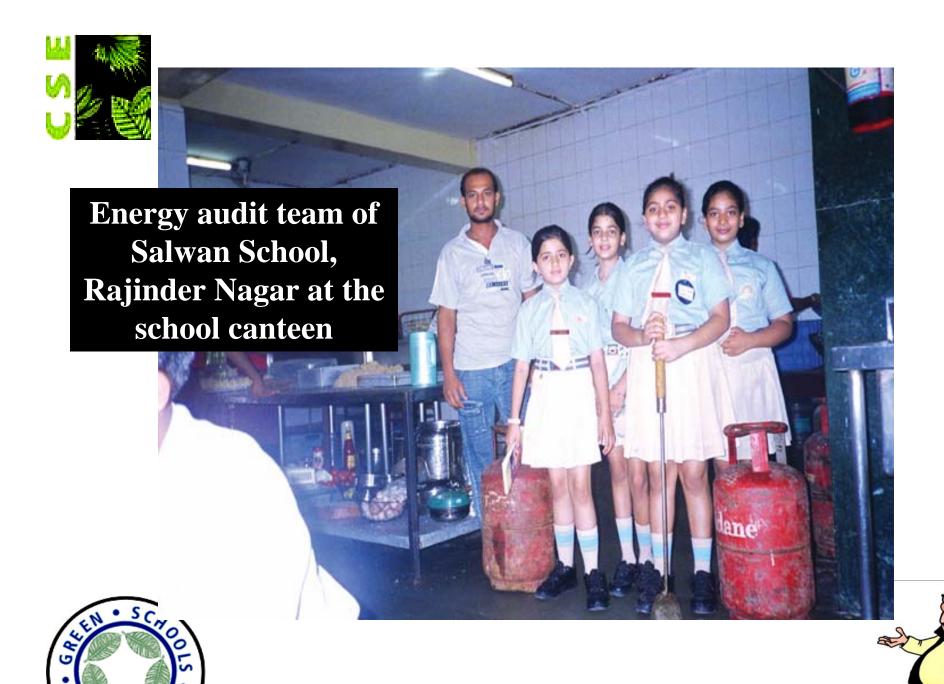
The rating is on:

- □How much does it consume?
- □What are the main sources of energy...and how eco friendly are they?
- □How much does it save?













Land

- □The rating is on:
 - ☐ How much of its land is under green cover?
 - □How many types of plants and animal species can you identify within premises?
 - □Which pesticides do they use?











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Students with oldest trees







- □The rating was on:
- ☐ How much waste does it generate?
- ☐How does it collect?
- ☐How much does it recycle?
- □How does it dispose?
- □Does it reuse text books?









Sister Nivedita
Sarvodaya Kanya
Vidyalaya, Defence
Colony also did a precise
waste audit by
measuring the amount of
waste generated using a
spring balance



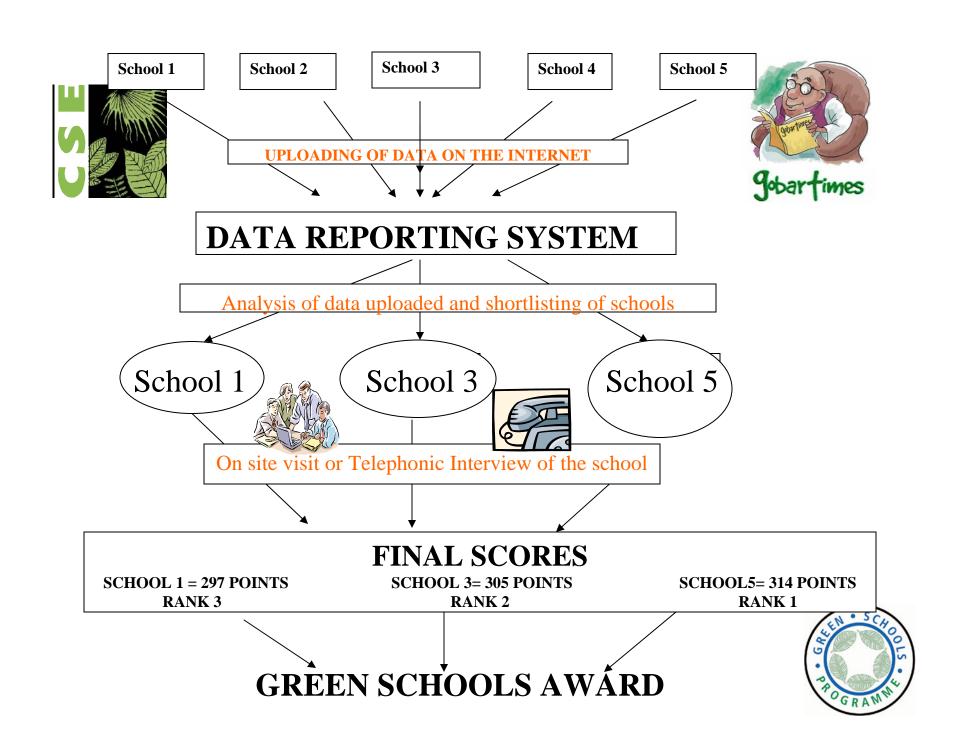




For any kind of waste management practice, the first step is segregation of waste









The Awards Gala









2006 audit said...

- □ Schools are aware of the importance of wise management. But are weak in making linkages with real life situations.
- ☐ Innovative methods are applied. But follow-up process to measure and quantify the impact does not exist.
- ☐ Environment-related programmes are still extracurricular. No structured approach is evident.







2007 audit said

Schools have mastered the art of auditing

- Outstanding data collection, tabulation, and analysis
- ☐ Assessment of impact of resource management practices more precise, structured, and accurate.
- ☐ Students involved in every step. Sharp increase in awareness level.







In 2008...

For the veterans a new category THE CHANGEMAKERS

Who are they?

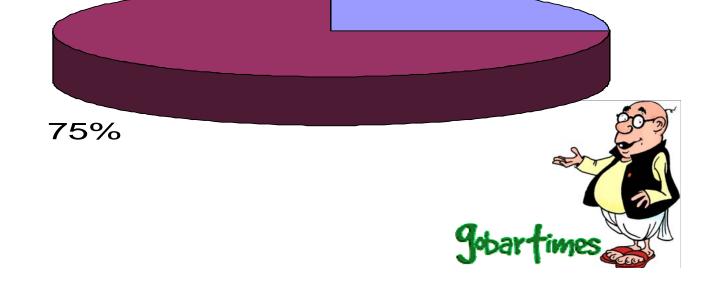
Schools which have been able to achieve basic and long-term changes in the mindset and lifestyle of:

School community, Parents, and the Neighbourhood



Water in 2006 rain water harvesting

But only 1 was harvesting the full potential. Most captured less than 3 per cent...







Water in 2009

Action on the ground

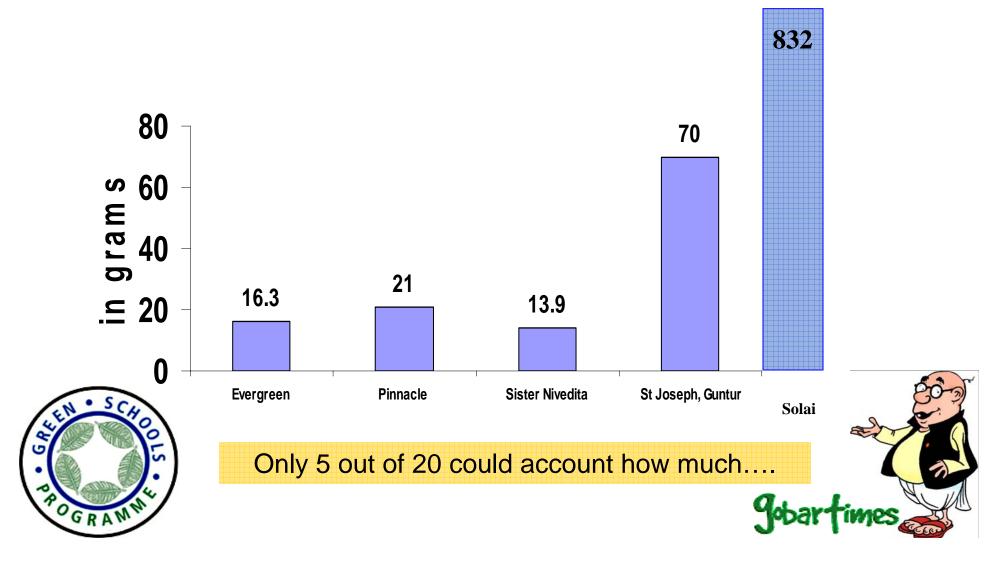
- □All schools install rainwater harvesting structures. Most tap maximum potential.
- □Sharp hike in conservation techniques. Schools recycle 100 per cent gray water.







Waste in 2006 Per capita waste generated??No data





Waste in 2007

Action on the ground.

- □ Every school assigned student groups to weigh waste. Teams included sweepers,gardeners, waste dealers
- □ Used spring balances; hand balances; weighing machines.

Scores had fallen. Quality of data has improved.







Waste in 2009

Action continues...

- □Changemakers record100 per cent recycling
- □Set up systems to reuse paper, plastic and food waste







Leading edge

School rated on two parameters:
How holistic is it: Has it been able to bring all divergent elements under one umbrella. Create cohesion.

How effectively has the GSP tool been used: Evaluation of the level of involvement of different sections of the school community.



Why GSP is a must?

- □ Schools where resource is scarce.

 Audit is needed to ensure basic needs are met
- □ Schools where there is plenty. Audit is required to prevent wastage.







Is GSP relevant to Climate variability?

Climate Change is embedded in every section.

Land, Air, Water, Energy. and Waste It teaches how to manage the resources prudently.

It helps to adapt a less polluting, therefore, more sustainable lifestyle.

It indicates mitigation measures







GSP vis a vis Design?

GSP changes mindsets. Radically.

AND it triggers real time action on the ground.







The GSP goal

A RESOURCE-LITERATE
GENERATION
IT BUILDS
A NEW BEHAVIOUR CODE TO
MATCH THE NEW BUILDING
CODE.



