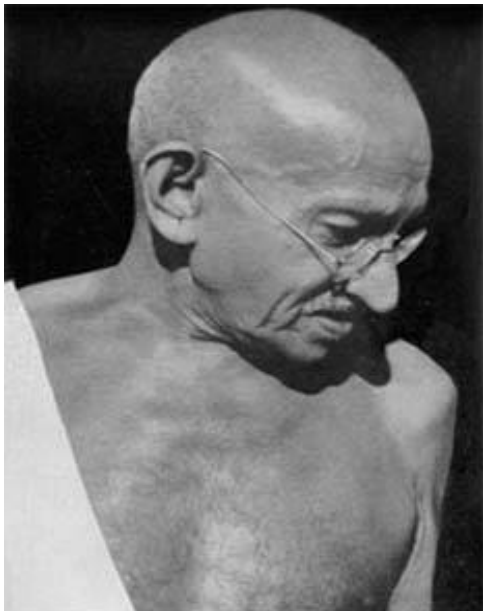


Sanitation a Way of Life

“Sanitation is more important than Political independence”



“The day every one of us gets a toilet to use, I shall know our country has reached the pinnacle of progress.”



SUSTAINABLE SANITATION ECOSANITATION

FLUSH & DISCHARGE

DROP AND STORE

SANITIZE

REUSE IT!



Sanitation Scenario in India



- 1981 - Sanitation coverage of 1% rural and 27% Urban India
- High Infant Mortality Rate
- 2001 Census - overall 36% (rural-22%)
- Recent estimate - 50% rural coverage

Government initiatives

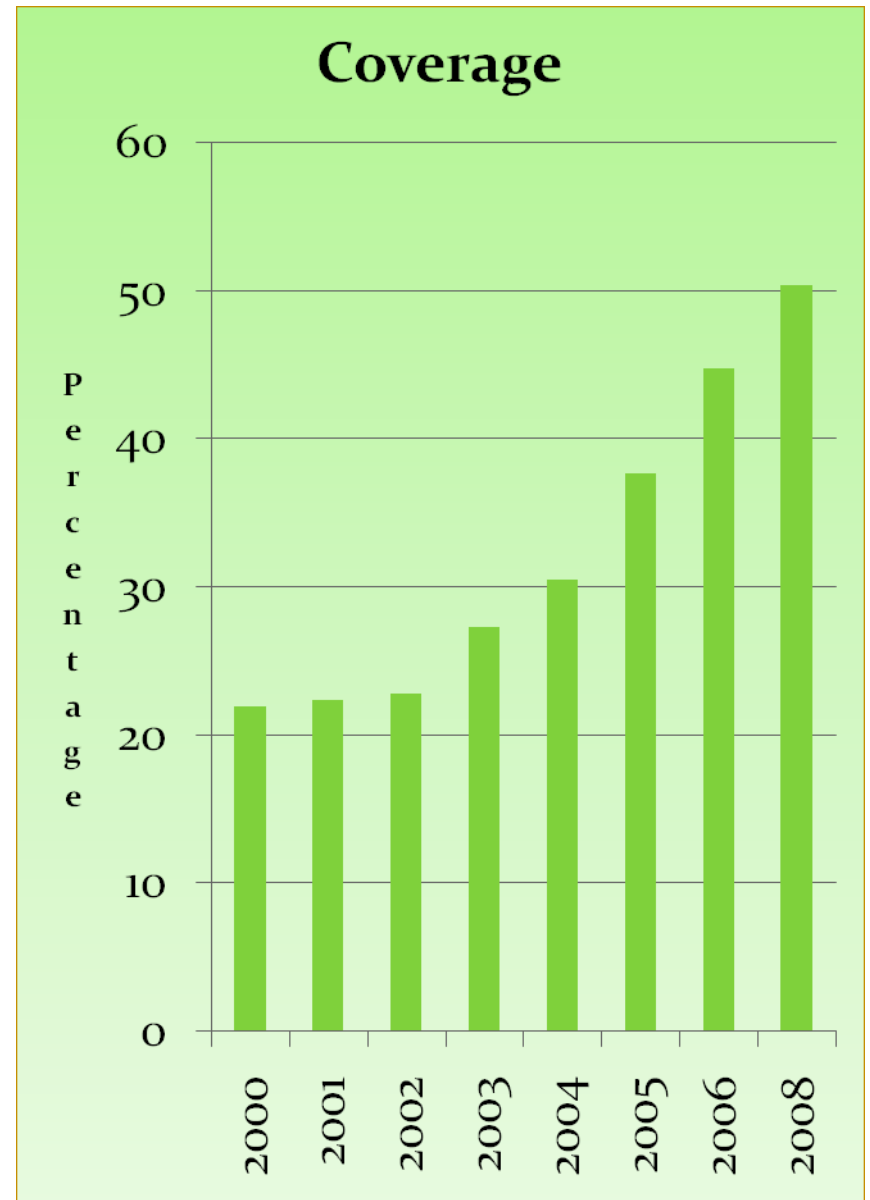
- 1951-56 Sanitation part of national agenda in first 5 year plan 1986 - Focus on Sanitation - Central Rural Sanitation Programme (CRSP) launched
- 1999 - Total Sanitation Campaign (TSC) launched
- 2003- Community incentive scheme- Nirmal Gram Puraskar (NGP) launched on 2nd Oct 2003
- 2007 –, Innovative sustainable Technology initiatives Solid and Liquid waste Management, Ecosan, Biogas, Nonconventional Energy Sources

TSC: Goals & Objectives

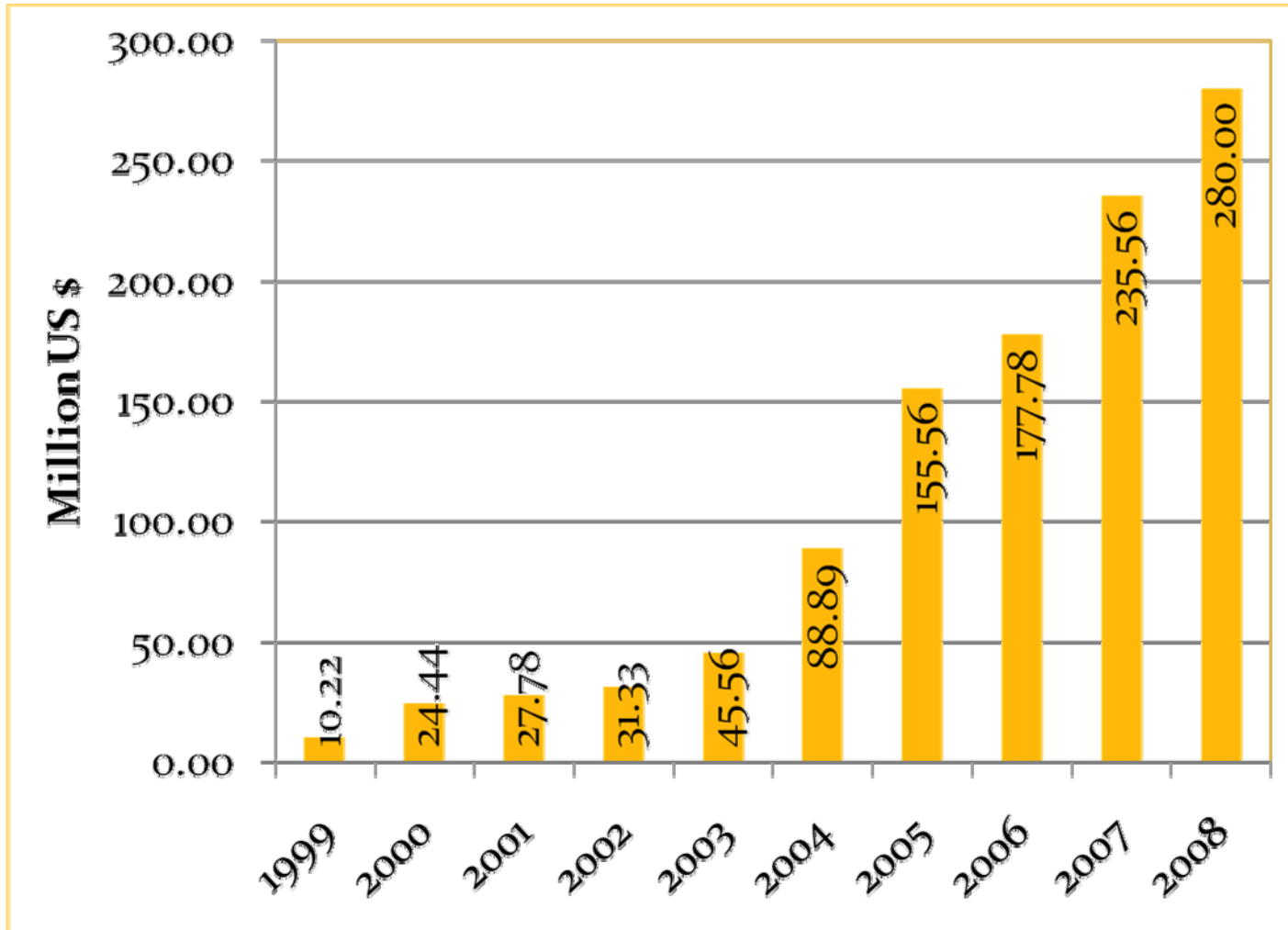
- To achieve full sanitation coverage by 2012
- To cover all schools and anganwadis with toilets by 2008
- Eliminate manual scavenging
- Eradicate the practice of open defecation
- Improve the general quality of life in rural areas
- Inculcate hygiene practices by change of attitude

TSC Achievements

State	2001	2007
A & N ILANDS	42.33	42.33
ANDHRA PRADESH	18.15	60.20
ARUNACHAL PRADESH	47.34	57.57
ASSAM	59.57	64.11
BIHAR	13.91	18.61
CHANDIGARH	68.53	68.53
CHATTISGARH	5.18	27.47
D & N HAVELI	17.32	17.44
DAMAN & DIU	32.02	32.02
DELHI	62.89	62.89
GOA	48.21	58.87
GUJARAT	21.65	49.85
HARYANA	28.66	74.12
HIMACHAL PRADESH	27.72	44.88
JAMMU & KASHMIR	41.80	51.62
JHARKHAND	6.57	18.10
KARNATAKA	17.40	37.00
KERALA	81.33	99.78
LAKSHADWEEP	93.14	93.14
MADHYA PRADESH	8.94	31.78
MAHARASHTRA	18.21	51.59
MANIPUR	77.50	79.01
MEGHALAYA	40.10	43.43
MIZORAM	79.74	151.14
NAGALAND	64.64	74.31
ORISSA	7.71	32.08
PONDICHERRY	21.42	23.84
PUNJAB	40.91	41.80
RAJASTHAN	14.61	25.55
SIKKIM	59.35	158.44
TAMILNADU	14.36	73.97
TRIPURA	77.93	162.28
UTTAR PRADESH	19.23	53.42
UTTARAKHAND	31.60	49.78
WEST BENGAL	26.93	79.83
India	21.92	50.38



Increasing Investment



TSC: Strategies & Principles

- Participatory Approach— Individual / Community
- Active involvement of PRIs, CBOs, NGOs & SHGs
- Demand Responsive Strategy – IEC to generate demand
- Subsidy to act as incentive rather than to meet capital cost of construction
- Coverage of schools and pre school centres



- Alternative delivery mechanism, effective supply sanitary products and services
- Promotion of School Sanitation & Hygiene Education
- Integration of water, sanitation, health and hygiene education
- Solid & liquid waste management as part of sanitation



Anganwadi toilet



Ecosan toilet unit



School toilet



Celebrating Success

National Award for Clean Village

- A means of carrying a difficult programme into high gear
- The award recognizes and makes heroes out of ordinary village people
- This means of social engineering has paid dividend in India
- Has helped increase sanitation coverage to 50%
 - 2005 - 38 GPs & 2 BPs from 6 states
 - 2006 - 759 GPs & 9 BPs from 14 states
 - 2007 - 4945 GPs & 14 BPs from 22 states



Challenges in Sanitation

- Change in behavior pattern and attitude
- Quality of construction and post construction maintenance
- Sustainability of the sanitation coverage achieved
- Pollution of ground water
- Difficult geophysical conditions, water stress

Sanitation Solutions differ...

- With soil type
- Availability of water
- Cultural practices
- Levels of urbanization



Technology for Special Areas

- Toilet designs for diverse climates, soil types
 - Ladakh in extreme north has temperatures below freezing
 - Kanyakumari in extreme south has temperatures over 40C
 - Rajasthan & Gujarat in the west are deserts
 - Assam in the east has the highest rainfall in the world
 - Soil types range from sandy to alluvial to hard rock
 - Water table ranges from 5 m to 300 m, with areas of annual flooding.

SEEING A TOILET WITHOUT SMELL IS BELIEVING



**Seven months after closure of the chamber,
Mrs. Shantha Sheela Nair, Secretary
opened the first ECOSAN Toilet chamber at
Kaliyapalayam on June 28th 2005**



**1st prize winners of Toilet Beauty Contest held at
Kameshwaram**

Ecosan for the aged & Handicapped

Western type closet with urine diversion for handicapped and the aged



Innovation in Ecosanitation –SCOPE



☀Sanitary Napkin Incinerator provided

- The slope of the urine pipe is increased to ensure easy flow of urine and prevent crystal formation.
- Special spring cleaner provided to clean entire stretch of the urine and wash water pipes.
- A glass slit fixed in two chambers and a light provided so that one could see the filling up of the chamber and the process of dehydration.
- Child friendly ECOSAN Compost Toilet. Grill above four feet of the wall. Scribbling board provided in the inner wall of the Child Friendly Toilet.

Women in Sanitation

- **Self help groups involvement in sanitation promotion**
 - **Group saving/ bank linked finance used as revolving fund for toilet construction**
- **SHGs operating production centers / RSMs**



School Toilet, Kameshwaram Village- Nagapattinam



ECOSAN PRODUCTS INCREASE FARM YIELD



Ms. Shanta Sheela Nair I.A.S –Secretary, Water & Sanitation, Govt. of India, harvesting Ecosan banana bunch at Kaliyapalayam

TSC & ECOSAN

Policy Guidelines

- Sanitation is accorded a National Priority as each of our country's most important National Mission
- Flexibility in use of various sustainable technology options based on geophysical conditions
- Ecosan for Hilly, rocky areas, High water table, flood affected, water stress areas
- Flexibility in use of TSC funds for Ecosanitation. 15% of TSC funds for Solid and Liquid Waste Management.
- Dovetailing of funds from XIIth Finance Commission, State Finance Commission, additional incentives by States for Ecosan

TSC & ECOSAN

Capacity Building and Training

- District level training programme of TSC officials (PHED)- Ecosan Services Foundation
- Integrate Ecosan in existing training programmes

Networking and Knowledge Management

- National Panel of Experts
- Technical Expert Group
- Sustainable Sanitation Regional Hubs- Ecosan Model Village Centres
- Convergence with other Depts. and Schemes

IEC, Documentation

- Ecosan book by Paul, Ecosolutions disseminated
- Technical Note on Household Sanitation
- Webportal- Links of Ecosan resource networks to official website
[www. ddws.nic.in](http://www.ddws.nic.in)

TSC & ECOSAN

Advocacy- International Year of Sanitation 2008

- Media Advocacy, Community Mobilization
- Advertisement in all National & Regional newspaper welcoming International Year of Sanitation 2008
- NGP Award for 2008.
- State level competitions for Best toilet, best teacher, Best NGO
- State wise exhibition for sustainable sanitation
- **National Workshop on Ecosanitation in Delhi with SEI, SuSANA**
- Increasing participation of youth groups Workshop on Solid & liquid waste Management
- Conference on Health, Sanitation and Water
- Media campaign to focus on health, sanitation & Water
- SACOSAN III –South Asia Conference on Sustainable Sanitation

Does Sanitation mean only toilets???

Total Sanitation Systems



Bio Gas unit



Cow Urine getting collected



Vermicomposting



Kitchen garden



Cow urine utilized for preparation of pest repellent

Creating demand by providing a menu of options



Water is Life, SusSanitation, Ecosan Brings Meaning to Life



Nurturing the Sanitation Revolution

