

### Sustainable Aspects:

- Becomes key economic activity of the rural area
- Provides direct and secondary employment to the community
- Sugar industry supports other downstream industry
- Industrial activity provides improved infrastructure to the community

### Unsustainable Aspects:

- Water pollution due to discharged of effluent & increased use of pesticide
- Huge water requirement
- Air pollution due to Burning of bagasse and sugarcane for speed harvesting
- Loss of habitat
- Degradation of soil due to field activity like mechanical harvesting, flood irrigation, use of pesticides etc.

### Target Audience:

- Industry cluster & Networking experts
- Expert in sustainability assessment
- Micro-regional environmental planner
- Academicians and Re-researcher working with sustainability
- Environmental & Industrial Policy makers/ decision makers
- NGO's working towards sustainable development

### You can be a part and contribute to SINET which will offer:

- Case studies on sustainable industrial networking
- Free participation in Expert group SINET seminar related to the textile, leather and health/medical tourism
- Pilot case studies for sugar, textile, leather and health/medical tourism
- Newsletter & regular updates

### Partners



**International Council of Swedish Industry**



**Network for Preventive Environmental Management (NetPEM) Public Trust**



**Flemish Institute for Technological Research**



**Confederation of Indian Industry**

### Contact Us

#### SINET Secretariat

C/o Network for Preventive Environmental Management (NetPEM) Public Trust, 301, 3<sup>rd</sup> Floor, Samved Sankul, Temple Road, Civil Lines, Nagpur – 440001

Phone: (0712) – 2552725/26

Telefax: (0712) – 2562723

Email: [coordinator@sinetinfo.org](mailto:coordinator@sinetinfo.org)

**SINET Home Page:**

[www.sinetinfo.org](http://www.sinetinfo.org)



## Sustainable Industrial Network and its Application on Micro-Regional Environmental Planning (SINET)

*(Sugar Sector)*



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### Background:

The environmental problems created by industry stem primarily from the use of a strictly linear production process of extracting raw materials and fossil energy, processing the material and energy, and dumping the waste back into natural systems. In response, an innovative new theory termed Sustainable Industrial Network (SINET) is emerging to guide industries towards sustainable production. SINET aims to incorporate the cyclical patterns of ecosystems into designs for industrial production processes that will work in unison with natural systems.

### Aim and Objective :

The overall objective of the proposed Initiative is to develop and adapt solutions to promote sustainability of the micro regions, specifically through making the Industry network (key economic activity) of the micro region more effective and efficient, thereby making products, processes & services at the micro region more resource efficient and less polluting.

### Indian sugar industry:

The sugar industry is the second largest agro-based industry next to textiles in India. It has been a focal point for socio-economic development in the rural areas by way of mobilizing rural resources, generating employment, providing higher income opportunity, transport and communication facilities. The industry generates its own replenishable biomass and uses it as fuel without depending on fossil fuel, therefore the sugar industry's contribution to the Indian economy is enormous.

No. of Working Sugar Factories	400
Cane Price Paid In financial year 2006	Rs. 122.69 billion
No. of cane farmers and their families	Over 45 Million
Sugar Production in sugar year 2006	18.17 Metric Tonnes
Annual Tax contribution to exchequer	Rs. 17 billion annually
Employment including ancillary activities	0.5 Million workers
Fuel Ethanol of 5% blend (Value)	200 Million US \$ per annum
Current export of Co-generated power (Value)	100 Million US \$ per annum

ICRA sector analysis July 2006

