

Coastal Area Industrial Development



Necessities, Challenges and Way Forward

COASTAL AREA INDUSTRIAL DEVELOPMENT

NECESSITIES, CHALLENGES AND WAY FORWARD

INTRODUCTION

- Industrial Development Wherever Happens impacts the environment
- ‘Not in my Backyard’ can not be said by AIPSN or TNSF
- Economic Growth-Development & Societal Progress
- “ Nature is the mother and labour is the father”
- “...despite all these things rapid growth of capitalism only create a condition favourable to the wage labour.”

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ELECTRICAL ENERGY

- 'The Report on Integrated Energy Policy' (Planning Commission, 2006) : India need 28,000 MW/Annum Electrical Installed Power addition till 2032
- Tamil Nadu requires about 2000 MW/Annum
- COP 21 Pledges:
 - Reduce GHG emission intensity of GDP by 33-35% below 2005 level by 2030 : Reduction by 3 Billion tons by 2030
 - 40 % Energy by Non Renewable Resources by 2030

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ELECTRICAL ENERGY

- Supercritical Thermal Power Plant
 - consumes less coal by 150 gms/Unit; less Water by 2-3 ltrs/Unit
 - Minimum Economical Size : 650 – 1000MW
 - 1000 MW Plant requires 42MCM of water : 100 Hectares of Paddy
 - 27 Lac T/Annum of coal with 6000 K.Cal/T
 - Indian Coal with ash content $> 40\%$ and < 4200 k.Cals/T
 - Raniganj – Tuticorin : 4400 kM . Energy for Transport : 1540MJ/T;
Raniganj Coal : 1674MJ/T : Net : 134MJ/T : 95 Units of E;
Australian Coal at pit head : 3140 Units of E/T

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OIL & GAS

- Tamil Nadu : Major Refinery @ manali 10.MMTA(2.5Lac Barrels/Day) Minor Refinery @ Narimanam 1 MMTA
- Consumption 11.881 MMT in 2014 & 12.391 MMT in 2015 ; CAGB 5%
- Std Economical Size : 6 lacs Barrels/Day
- Std Refinery requires 12.776 MCM of water : > 42 Hectares of Paddy & Crude Unloading Facilities
- Effluent : ?

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Desalination

- 1000 MW Power Plant requires 4.8 MLD; 6 Lac Barrels/Day Refinery requires 112.5 MLD of fresh Water
 - Chennai receives 985 MLD against the requirement of 1200 MLD (in 2017); In 2031, the requirement : 2100 MLD
- Industrial and Domestic Requirements make Desalination Plants inevitable
- Effluent : Concentrate with higher salt content (by 1.5 times)

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SUMMARY

- Tamil Nadu Coastal Line is going to be dotted with Thermal Power Plants, A refinery (Minimum) and its Down Stream Industries and Desalination Plants
- Sounds Dystopian But not so
 - “All Sciences will be superfluous if the outward appearance and essence of things directly coincided” – Karl Marx

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WAY FORWARD

- A Holistic Approach with state as the unit and democratic participation
- Global Warming and Climate Change as the Top Criteria
- Identified Stretches for Traditional Coastal Population with safeguarded livelihood.
- Scheduled Tribe status for Traditional Fishing Communities.
- Power Plant with Ancillary for 100% usage of Fly Ash, Scrubbers and ESPs, Zero Effluent Refineries , Desal Plants with Proper Dispersal Systems

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THANK YOU