

The coming wars over water

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Land and water wars

- Current 'wars' over land, but next big struggle is over water
- The allocation-reallocation of water from agriculture to industry and urban areas; between urban and industry
- Water is needed for new growth
- Not considered. Or discussed

Skirmishes



Nirma: Gujarat

People vs cement plant

Sompeta/Kakrapalli: AP

People vs thermal power projects

EIA clearance given: Waterbody taken over



Nirma: commwaterbody
handed over to cement factory



Re-allocation of water: displacing livelihoods



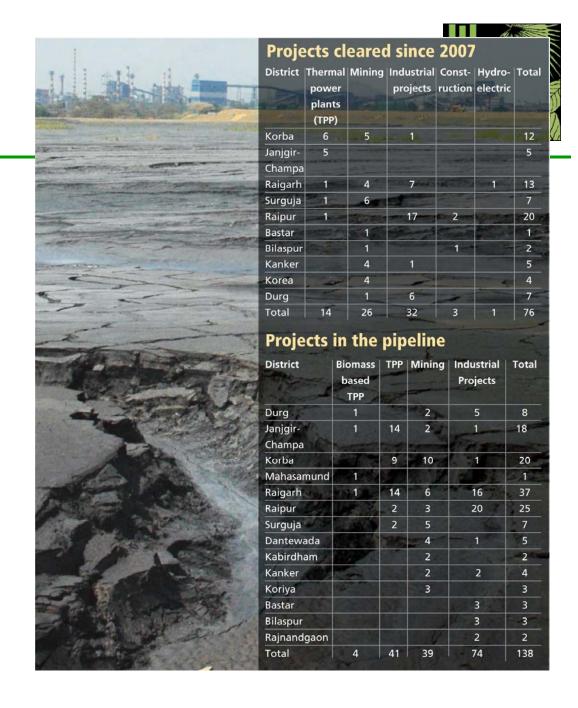
- Water allocated to industry/ cities
- Chattisgarh: Mahanadi
- Amravathi: Upper Wardha project
- Orissa: Hirakud dam water
- Renuka dam: Delhi water
- Vizak: agriculture vs city vs industry
- Cola/beverage companies

Chattisgarh: cost?

Huge development rush

State has forests
State has minerals

But state does not have water
Who will assess cumulative damage?







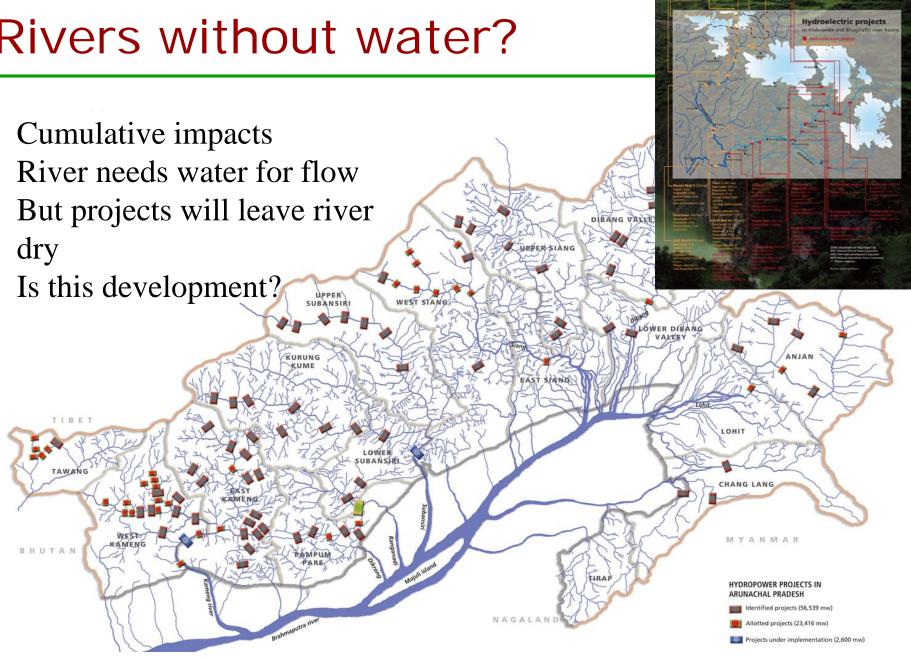


Energy vs water

 Rivers being taken away for hydro-electric projects – no water in the river for ecology/livelihood

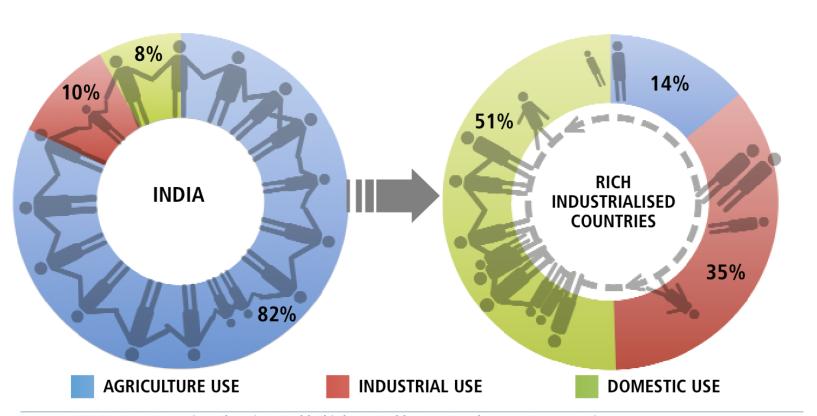
- Ganga
- Arunachal Pradesh
- Himachal Pradesh

Rivers without water?



Tensions will increase: India's non-transition

MORPHING INTO AN URBAN-INDUSTRIAL SOCIETY: BUT INDIA CONTINUES TO LIVE IN ITS VILLAGES



Source: UNESCO 2009, Water in a Changing World, Third UN World Water Development Report, Paris.



Tensions over pollution

Urban-industrial sectors take water. Return waste and pollution

This adds to water stress

Tensions over pollution growing enormously



Policy shifts beginning

- Discussions over new water policy change priority of agriculture to give priority to industry/urban: use of word livelihood proposed
- Build pressure about inefficiency in agriculture – wastage of water
- Policy to charge for water economic users of water – can pay for water; higher value addition per unit of water etc

No policy that protects interests of water



- EIA environment policy no concern for water allocation -- focus on pollution or biodiversity
- Forest clearance concern for biodiversity, not value of forests for water
- Waterbodies -- can be categorised as wasteland (revenue land); lakes (can be renotified); catchments not protected



Difficult to report

1. Water data is not available

2. Water data is difficult to understand

- 3. Struggles are local, disaggregated
- 4. No national picture on water wars



But critical: make or break

- Water determinant of future
- Climate change will lead to greater variability; extreme weather events
- Development will lead to greater pressures and pollution
- Stress will lead to impacts on environment
 - destroy rivers, lakes
- Scarcity will lead to livelihood impacts