

Brick Sector Opportunities and Challenges

23rd October 2013

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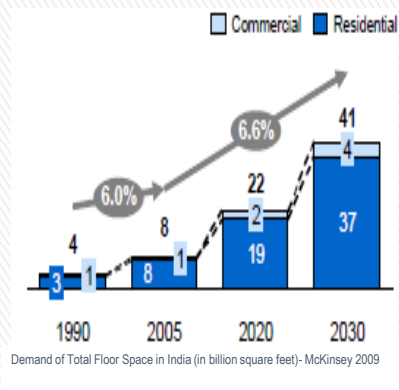
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Indian brick industry

Statistics for 2000 – 2001 (TERI study)

- » Annual brick production more than 140 billion
- » Number of brick kiln units more than 1 lakh
- » 80 - 100 million people employed - mostly migratory
- » Annual coal consumption about 24 million tonnes
- » Estimated CO₂ generation 42 million tonnes
- » Top soil consumption more than 400 million tonnes
- » Estimates for 2012
- » Annual brick production 290 billion
- » Annual Coal consumption 50 million tonnes



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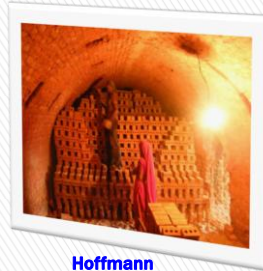
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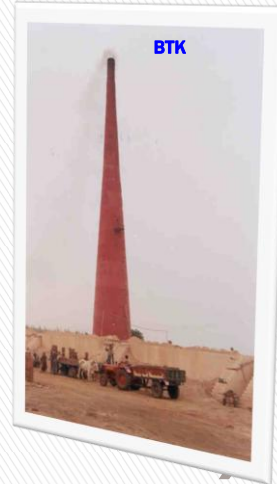
Technologies used in brick making



Clamp



Hoffmann



BTK



Downdraft



VSBK

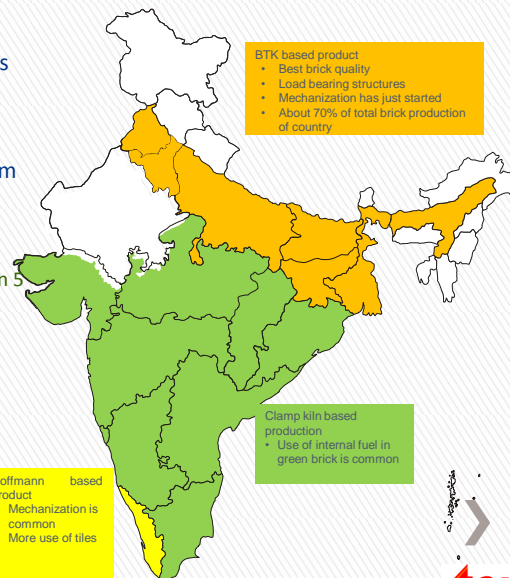
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Policies / Schemes for brick sector

- Ministry of Environment and Forests
 - Emission norms for BTK, VSBK and downdraft kiln
- Ministry of Micro, Small and Medium Enterprises
 - CLCSS for technology upgradation
 - Demonstration of VSBK technology in 5 States
- Ministry of Power
 - BEE- SME program (Varanasi brick cluster)



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Drivers for Change

- Environmental regulations
- MGNREGA
 - labour shortage
- Increased awareness on energy and environment issues
 - Switching over to mechanisation
 - Adoption of alternate walling materials
 - Changing buyer expectations
- Increasing fuel prices
 - Adoption of best practices
 - Use of locally available fuel and increased use of agricultural residue
- Entry of multinational brick manufacturers/ technology suppliers

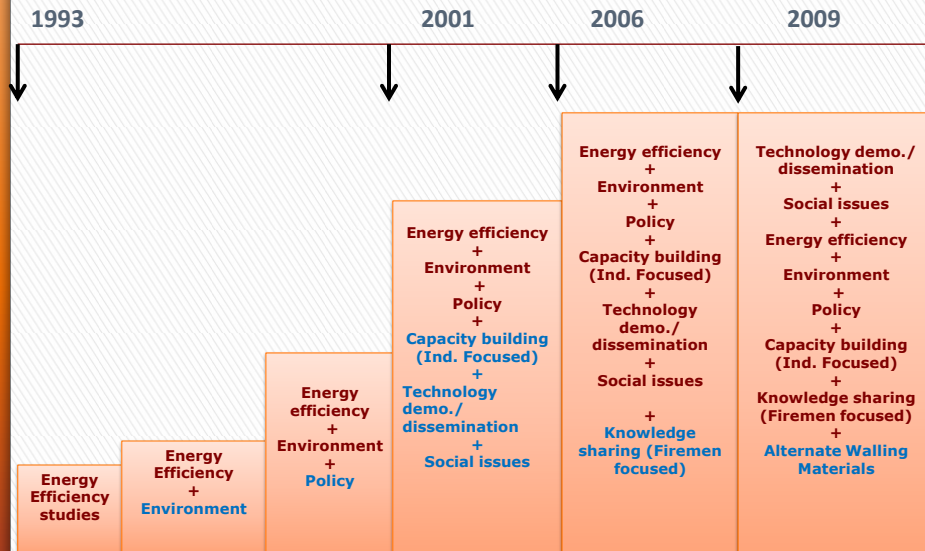


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TERI'S initiatives in Brick Sector



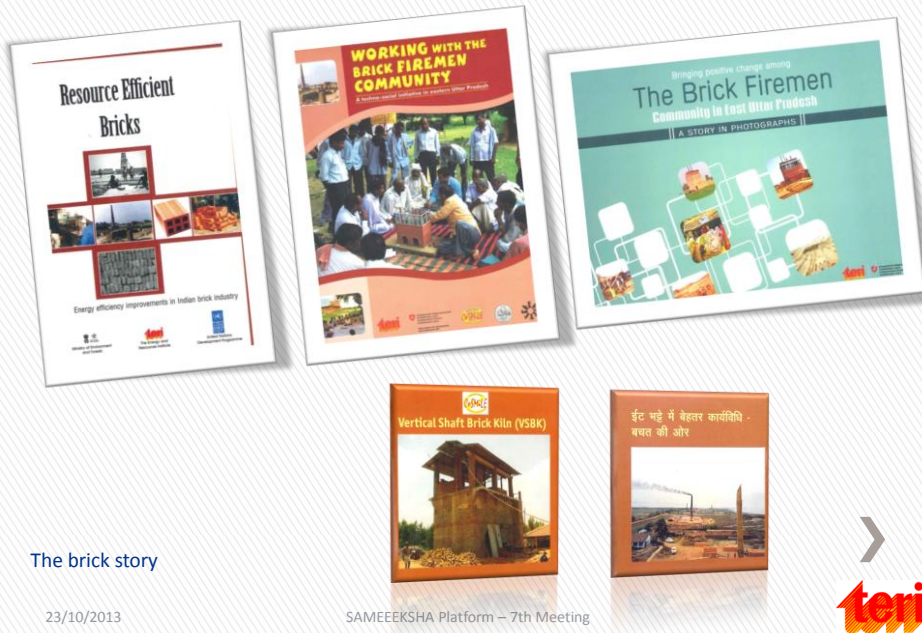
SDC, UNDP, USEAP, ESPS, Entec AG, Stratus consulting, DFID and CPCB

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Documentation - Brick sector



The brick story

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Issues and challenges

- » Mechanisation
 - > Focused research on green brick molding
 - + around the year operation
 - + Large size low density product
 - > Incentives for adoption of mechanization to support experimentation
- » Capacity building
 - > Firemen, Moulders, Supervisors and brick kiln entrepreneurs
 - > Masons
 - > Development of local service providers (LSPs) to cater to varying needs of the industry – product, fuel and soil characteristics
- » Financing
 - > Sector specific / tailor made financial packages
- » Alternate Walling Materials
- » Environmental Issues

NEED FOR SECTOR SPECIFIC INITIATIVES

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Thank You

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