



International
Energy Agency
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CHP/DHC Strategic Workshop Country Scorecards

Paris, 27-28 May 2014

CHP/DHC Country Scorecards series

Each country scorecard aims to:

- ✓ Provide additional data on CHP and DHC at the country level
 - ✓ CHP average performance, CHP capacity breakdown by size and technology, DHC energy supply mix
- ✓ Discuss current status of CHP/DHC in national context
- ✓ Outline policy efforts and identify strengths and weaknesses
- ✓ Evaluate potential for additional deployment
- ✓ Identify country-specific challenges to CHP and DHC
- ✓ Recommend solutions to help overcome barriers in market and policy frameworks

2008-2009 scorecards

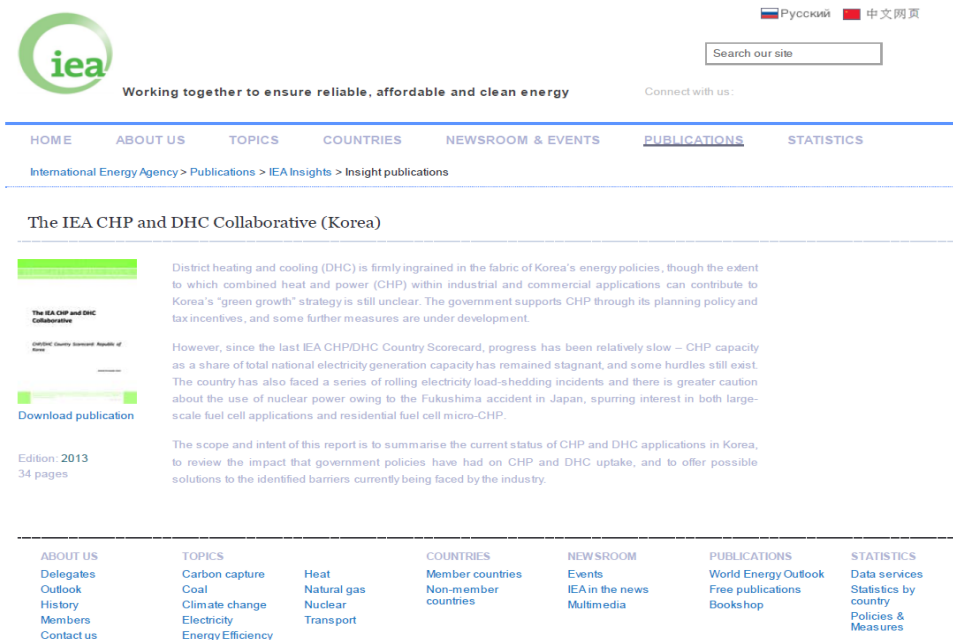
- ✓ China
- ✓ Denmark
- ✓ Finland
- ✓ Germany
- ✓ India
- ✓ Japan
- ✓ Korea
- ✓ Netherlands
- ✓ Russia
- ✓ US
- ✓ UK

The collage displays 12 individual scorecard pages, each titled 'The International CHP/DHC Collaborative Advancing Near-Term Low Carbon Technologies'. The pages are arranged in a grid-like fashion, overlapping slightly. Each page contains:

- Title:** The International CHP/DHC Collaborative Advancing Near-Term Low Carbon Technologies
- Country:** A map of the country in red, with the title of the scorecard (e.g., 'CHP/DHC Country Scorecard: Japan').
- Energy Overview:** A section with a line graph showing energy consumption and generation trends, and a pie chart showing the energy mix.
- CHP/DHC Country Scorecard:** A section with text describing the country's energy situation and the role of CHP/DHC, along with smaller charts and data points.

Phase III Country Scorecards

Country	Status
Finland	✓
Japan	✓
Korea	✓
India	✓
US	Ongoing
Mexico	Ongoing



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The IEA CHP and DHC Collaborative (Korea)

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Edition: 2013
34 pages

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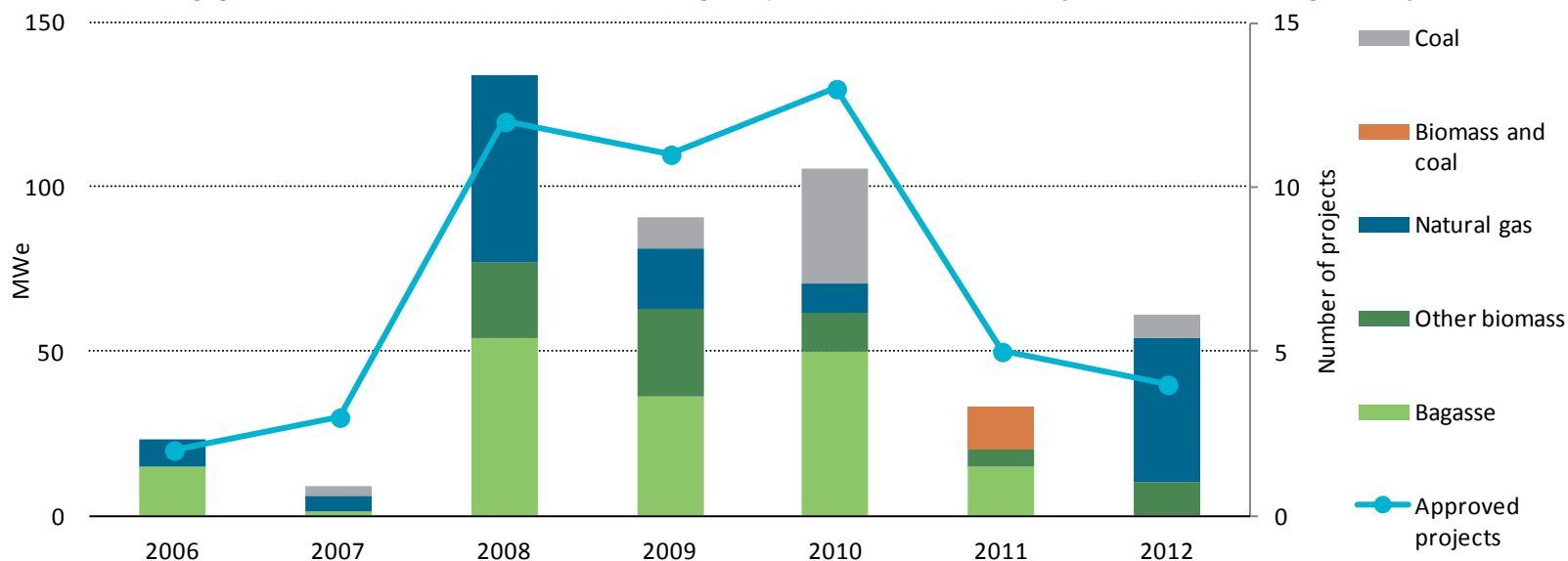
India (2014) – Setting the scene

- ✓ World's 3rd largest energy consumer, focused on meeting growing demand reliably and sustainably
- ✓ Strong policy incentives for CHP in sugar industry – exceeded national target for bagasse-based CHP
- ✓ Very few DC systems in operation; a few major projects raising the profile
- ✓ Lack of centralised collection of comprehensive data on CHP and DHC – only bagasse and renewable non-bagasse CHP are centrally monitored

India (2014) – CHP overview

- ✓ Comprehensive, centralised data on CHP in India is very limited
- ✓ Potential exists in a variety of sectors (an estimated 14 GW for industrial CHP)
- ✓ Incentives focus primarily on bagasse-based applications

Approved CHP-based CDM projects in India, by fuel and capacity



India (2014) – DHC overview

- ✓ Very few projects – a few large projects such as Gujarat International Finance Tec-City and DLF Cybercity have been completed in recent years
- ✓ Significant growth is projected in space cooling demand, which could be an opportunity for expansion of district cooling

India (2014) – Key findings

■ Challenges

- ✓ Data on CHP and DC in India is very limited
- ✓ Policy incentives focus mainly on bagasse-based CHP
- ✓ Complex gas pricing and allocation policies can be a barrier to CHP competitiveness

■ Potentials

- ✓ Large potential for CHP in industry
- ✓ Improvement of natural gas infrastructure could improve prospects for CHP
- ✓ Increase in space cooling demand could drive DC deployment

India (2014) – Policy recommendations

- Central and state government support
 - ✓ Increase and standardise data collection
 - ✓ Promote strategic planning and assessment of CHP/DHC projects at the planning phase
 - ✓ Reward energy efficiency and consider full benefits of CHP/DHC
 - ✓ Increase coordination between central and state energy agencies
 - ✓ Develop national database of policies and regulations as well as standard measurement and validation methodology
- Private sector initiatives
 - ✓ Establish frameworks for data collection, technology assessment and knowledge sharing
- Enhanced cooperation
 - ✓ Create public-private partnerships
 - ✓ Partner with countries that have successful CHP/DHC implementation strategies

Next steps

- India scorecard will be disseminated at the 2014 Clean Power Asia conference
 - ✓ 10-11 June – Bangkok, Thailand
- Proposed Phase IV work programme (2015-2016)
 - ✓ 2 additional country scorecards



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Thanks

Don't miss: <http://www.iea.org/chp/>

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