

Efficiency is Essential for “All of the Above” to Succeed

Marc Hoffman, Consortium for Energy Efficiency
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Efficiency: First Choice to Reduce CO2

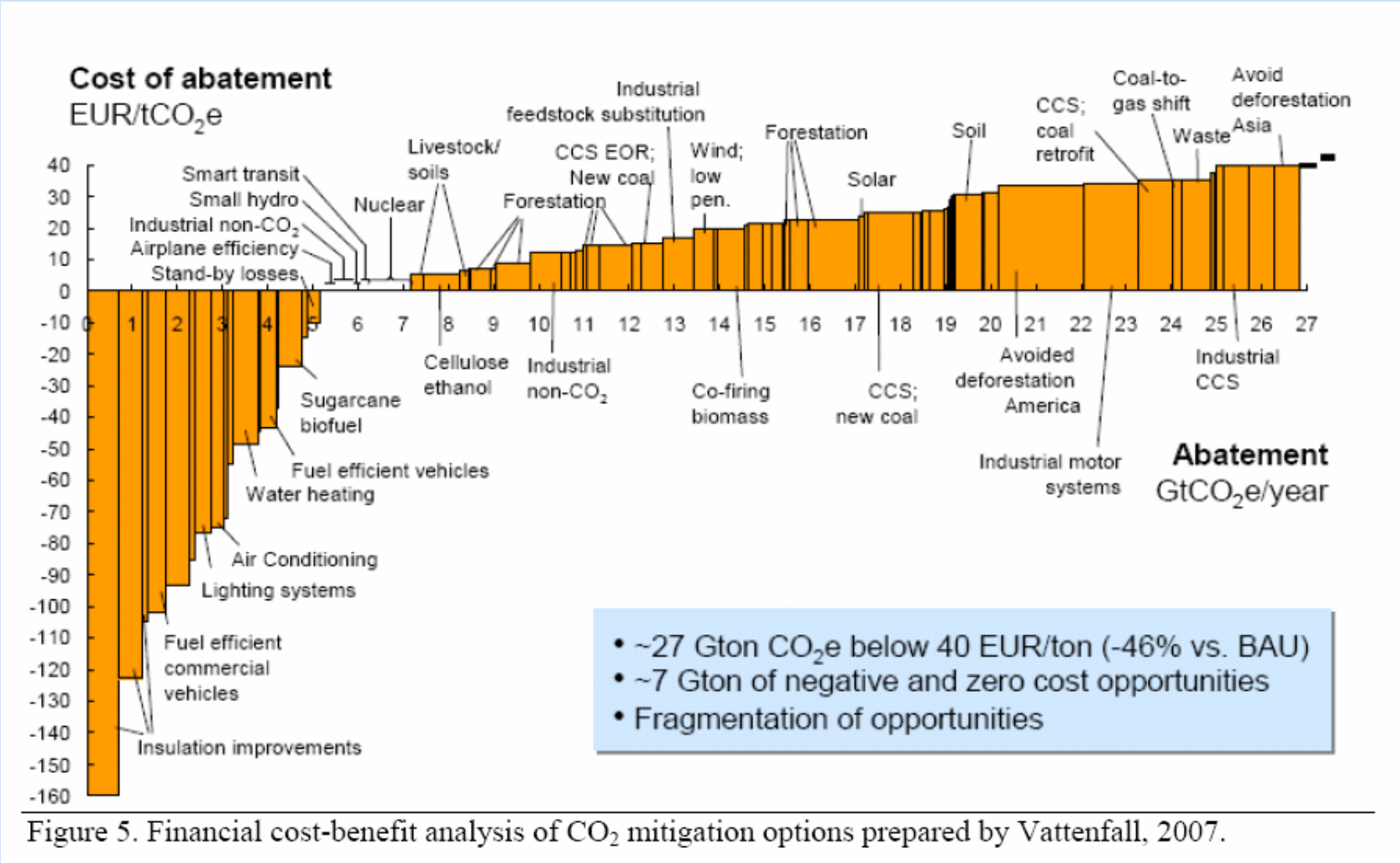


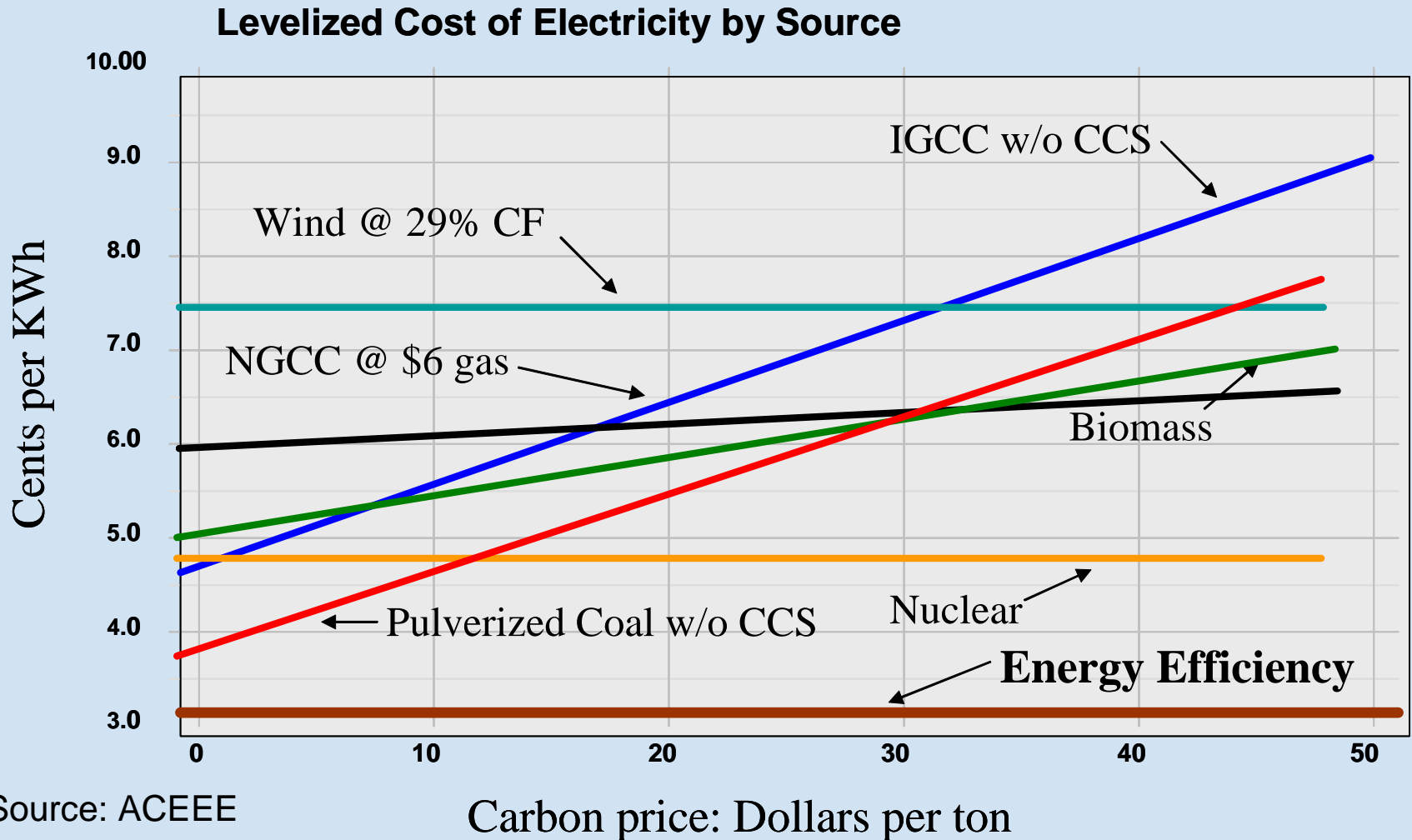
Figure 5. Financial cost-benefit analysis of CO₂ mitigation options prepared by Vattenfall, 2007.

Source: Bill Prindle, ACEEE/Vattenfall 2007



Working Together, Advancing Efficiency

Efficiency: The Lowest Cost Generation



Efficiency: A Demonstrated, Viable Resource

- California has held their per capital electric consumption constant since the late 70's
- In 2005, CEE member efficiency programs avoided 47,000 GWh and 161 million therms
- \$35 billion of electric savings and over \$200 million in gas savings for consumers
- PUC's are increasing the targets for their efficiency programs

Efficiency Programs have critical mass – in 2007:

\$3.7 Billion promoting efficiency

- 2007 total US budgets **\$3.1 B up from \$2.6 B**
 - Up **18%**
 - Electric - **\$2.7 B**
 - Gas - **\$400 M**
- 2007 Canadian budgets **\$0.6 billion (CN)**
 - Electric - **\$525 M**
 - Gas – **\$56 M**

You can do it. NAPEE can help.

- National Action Plan for Energy Efficiency

<http://www.epa.gov/solar/actionplan/resources.htm>

- *Aligning Utility Incentives with Energy Efficiency Investment*
 - Financial effects on utilities of EE and policy mechanisms to align business interests with efficiency objectives
- *Guide to Resource Planning with Energy Efficiency*
 - Key issues, best practices, and main process steps for integrating energy efficiency into resource planning
- *Database of Energy Efficiency NAPEE Resources*
 - On-line, searchable,

Don't reinvent the wheel

- *Guide for Conducting Energy Efficiency Potential Studies*
- *Model Energy Efficiency Program Impact Evaluation Guide*
- *Building Codes and Energy Efficiency Fact Sheet*
- *Energy Efficiency Benefits Calculator*
- More NAPEE resources coming soon
- *DOE/EERE Impact Evaluation Framework for Technology Deployment Programs*
http://www.cee1.org/eval/impact_framework_tech_deploy_2007_main.pdf
- Impact evaluation for market transformation, education, marketing program approaches

Efficiency Programs Work as a US-Canadian Industry

- 78 Efficiency Programs from 30 states and 4 provinces work together with EPA, DOE and NRCAN at the Consortium for Energy Efficiency
- Develop consensus recommendations of levels of high efficiency to promote
- Voluntarily harmonize their programs around CEE Initiatives
- Work Industry-to-Industry to overcome market barriers with partnerships opening the door to increased sales of high efficiency products and services

Supporting Efficiency- There's more gold in 'dem dar hills

- Whole-building performance –managing energy costs and reducing use
- Water/wastewater facilities
- Servers and data centers
- Consumer electronics
- Solid state lighting is coming fast
- Changes in social norms

Regulatory challenges to extend measurement and verification protocols

- Behavioral changes, market share changes, code changes

Best program practices come together at CEE

- Harmonizing on criteria
 - Sharing of program administrator expertise
 - Working with Energy Star
 - Working with industry
 - Coordinating market-wide approaches for market transformation
 - Coordinated research
- Web-based resources
 - Program info www.cee1.org
 - Evaluation
<http://www.cee1.org/eval/eval-res.php3>
 - Evaluation reports
Clearinghouse
<http://www.cee1.org/eval/clearinghouse.php3>
 - Ask the Experts Workshops
 - Webinars for newcomers
 - IPU webinar on Evaluation Jan 10
 - Jan 16 Long Beach- Leveraging the ENERGY STAR Platform for Local Programs