
Retirement of Boardman Coal Plant

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Overall Findings

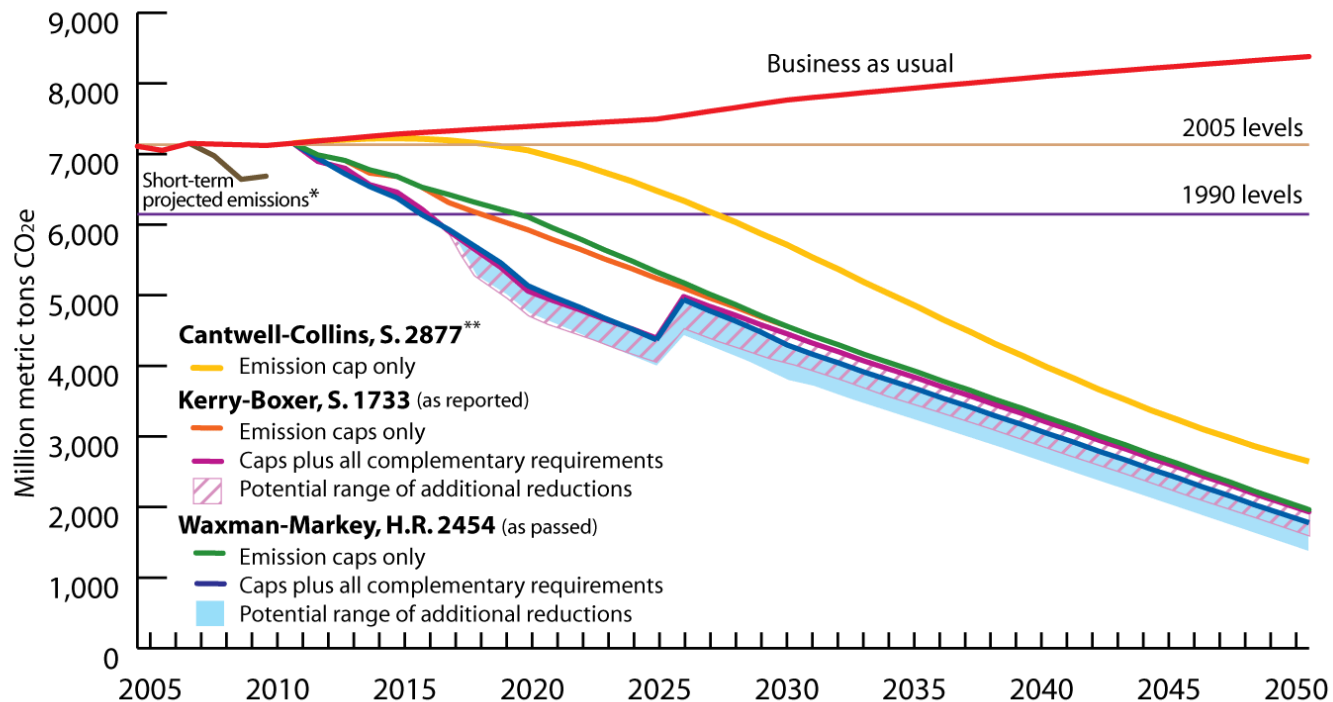
Evidence in PGE's Final Integrated Resource Plan shows:

- **Continued operation of the Boardman coal plant will lead to higher CO₂ emissions in the future.**
- **Retirement of Boardman in 2014 would not be more expensive for ratepayers.**
- **Retiring Boardman in 2014 would not significantly impact reliability of the electric grid.**

The Goal

Net Emission Reductions Under Cap-and-Trade Proposals in the 111th Congress, 2005-2050

December 17, 2009



WORLD RESOURCES INSTITUTE

For a full discussion of underlying methodology, assumptions and references, please see <http://www.wri.org/usclimatetargets>.

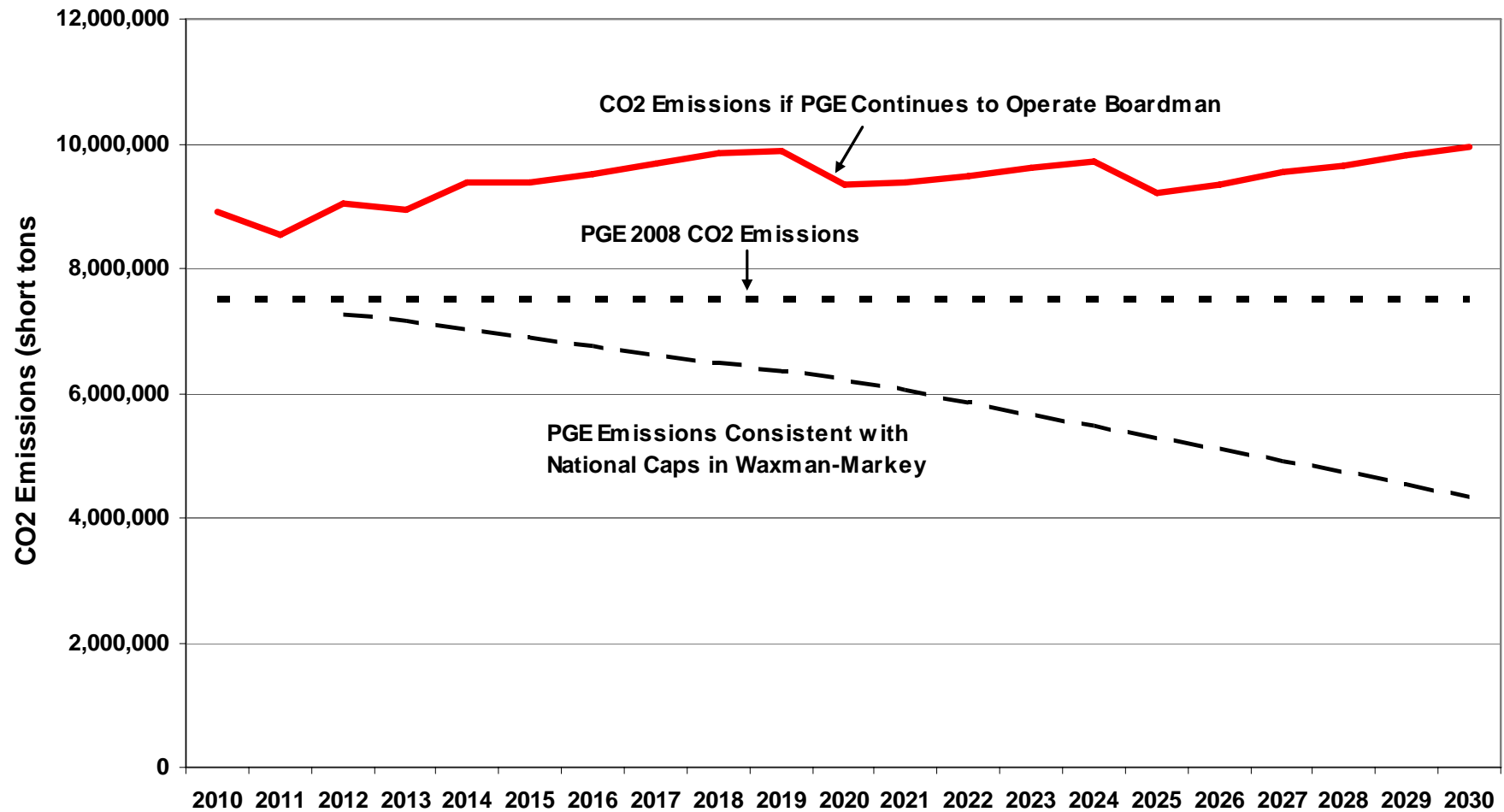
*"Business as usual" emission projections are from EPA's reference case for its analysis of the Waxman-Markey bill. "Short-term projected emissions" represent EIA's most recent estimates of emissions for 2008-2010.

** Cantwell-Collins sets economy-wide reduction targets beginning with a 20 percent reduction from 2005 levels by 2020. However, additional action by Congress would be required before these targets could be met. Reduction estimates do not include emissions above the cap that could occur due to the safety-valve.

CO₂ Emissions (1)

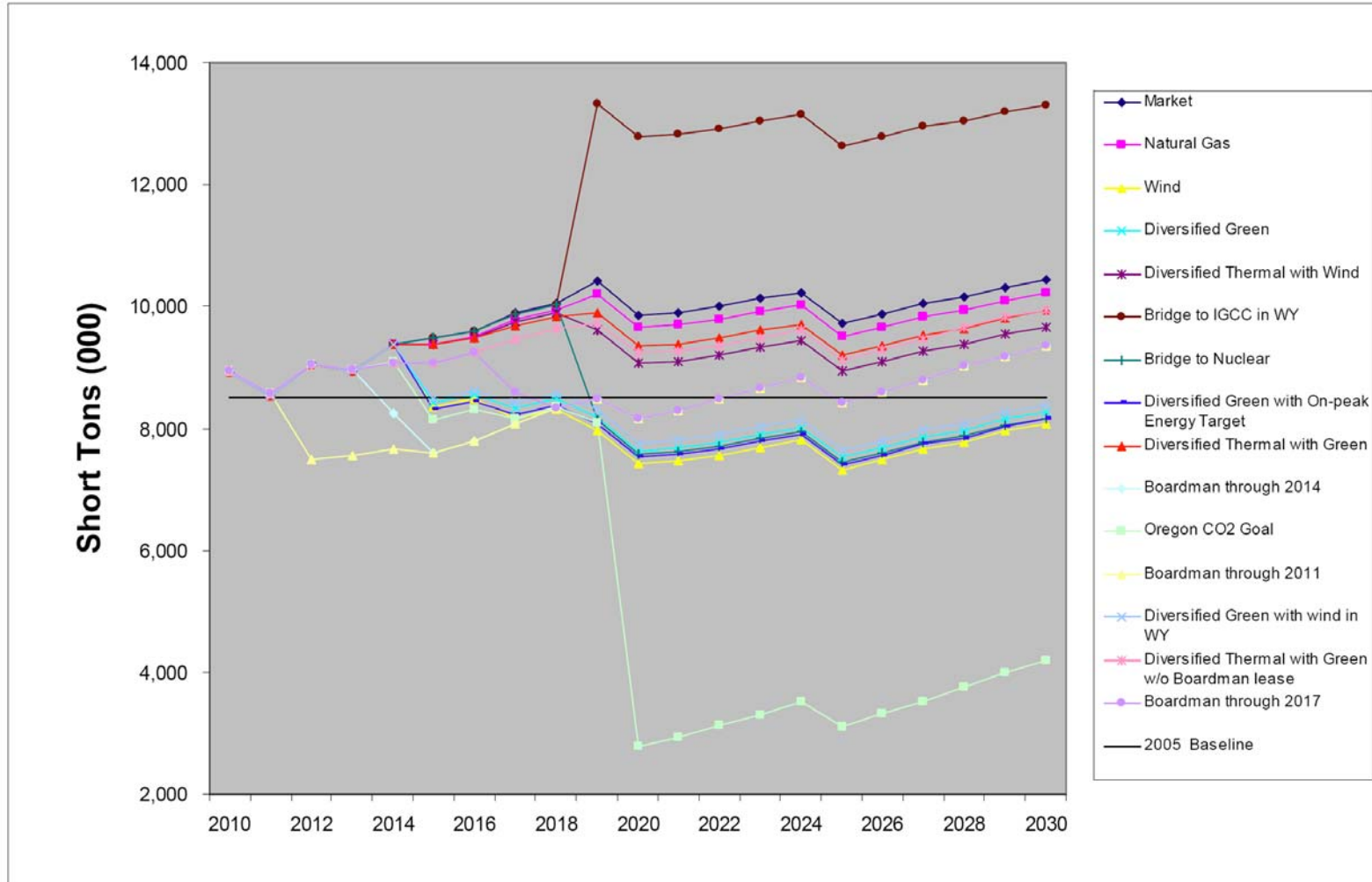
- **Company's own analyses show that if it continues to operate Boardman through 2040, its annual CO₂ emissions would increase by approx. 30 percent, from 7.4 million tons in 2007 and 7.5 million tons in 2008 to 9.9 million tons in 2030.**
- **Also show that continued operation of Boardman would lead to significantly higher annual CO₂ emissions than if plant is retired in 2014 or 2017.**

CO₂ Emissions (2)



CO₂ Emissions (3)

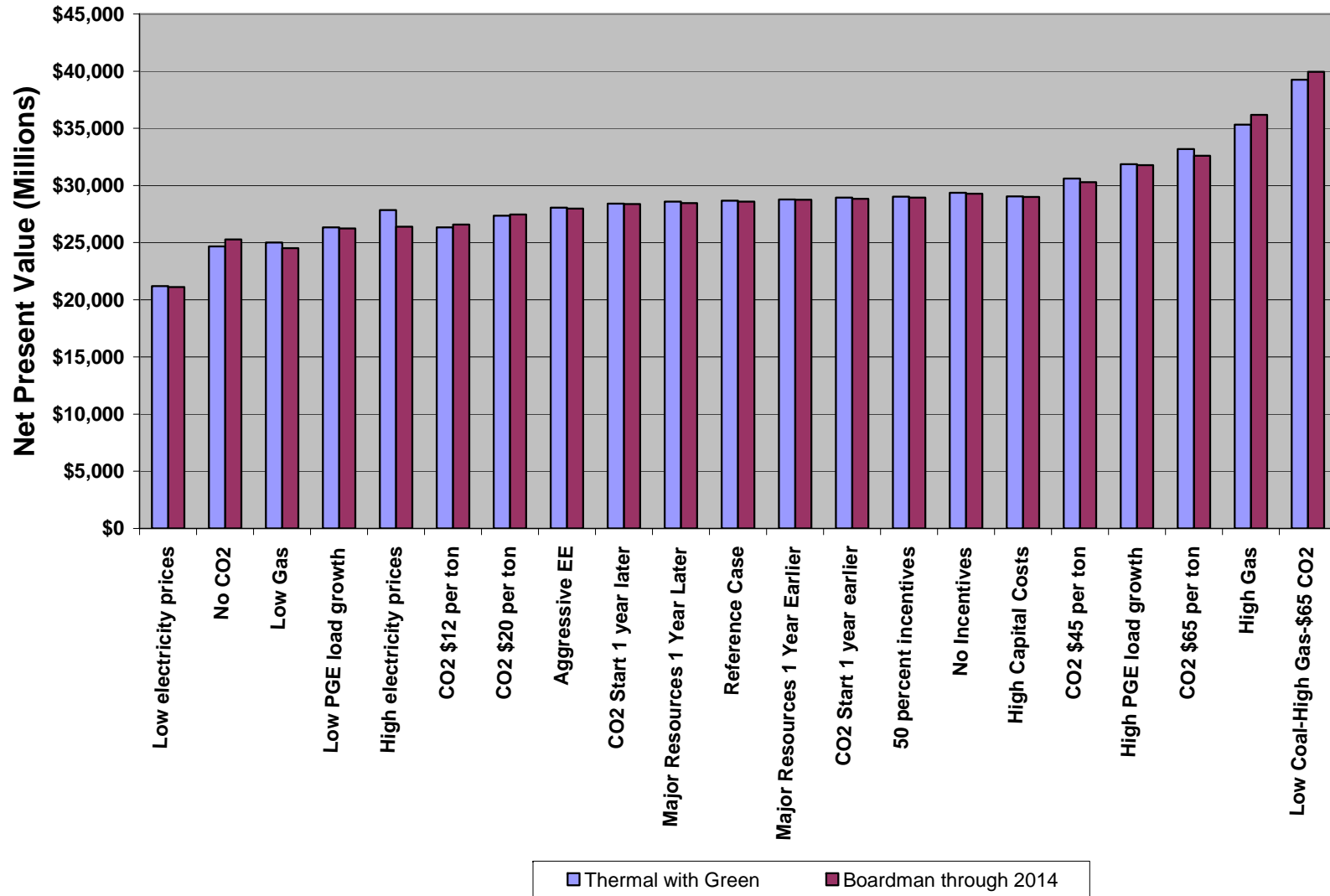
Figure 11-16: 2010-2030 Reference Case CO₂ Emissions in Short Tons by Portfolio



Impact on Ratepayers (1)

- **PGE analyses show that the cost of retiring the Boardman plant in 2014 (and building a replacement natural gas-fired unit) would not be any higher than the cost of continuing to operate the plant through 2040 except in certain unrealistic scenarios.**
- **But PGE has acknowledged that it has not evaluated whether building a replacement gas unit is the least cost option if Boardman is retired. There may be less expensive alternative to Boardman.**

Impact on Ratepayers (2)



Impact on Ratepayers (3)

