The Costs Of Environmental Regulation In A Concentrated Industry

Stephen P. Ryan, (ECMA, 2012)

presented by Paul Anthony Sarkis

February 26, 2019

Setting

- Clean Air Act (Amendments of 1990)
 - Regulation to reduce emissions
 - Engineering estimates for CBA (static) = based mainly on compliance cost
- ⇒ Miss the effect of sunk costs and investment costs
- BUT they are important:
 - Leads to fewer firms and lower production
 - In already concentrated industries!

Empirical Strategy

- Estimation of a dynamic oligopoly model using a two-step estimator (Bajari, Benkard and Levin, 2007)
 - 1st step: recover what firms do
 - 2nd step: recover params that rationalize choices
- Simulation of the model to compute variables:
 - Welfare (producer and consumer)
 - Number and size of firms
 - Costs distribution before/after