

Comments on

Pricing twice the cost? The Impact of Forward Contracts on the Pass-Through of Emissions Allowance Prices. Empirical Evidence from the Spanish Electricity Market

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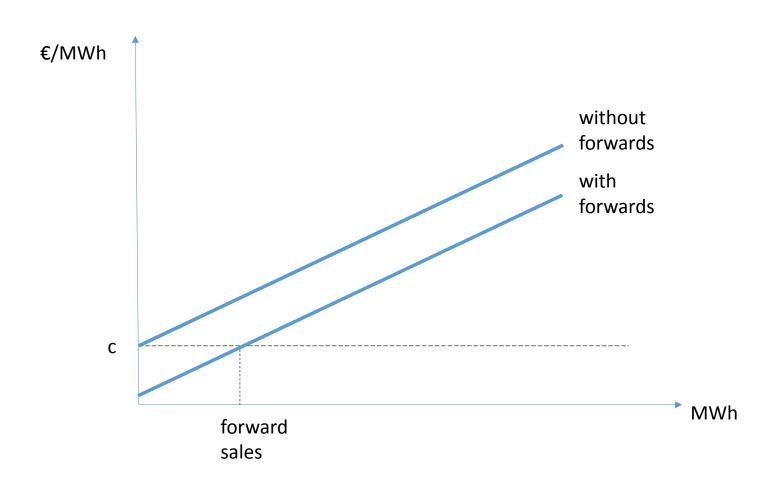
The Johanndeiter-Wölfing's cocktail

- Pour a large dose of supply functions in an IO model
- Garnish with slices of forward contracts
- Add a zest of cost pass-through
- Aromatize with ETS liquor
- Shake energetically
- Serve on fresh Spanish data
- Enjoy!



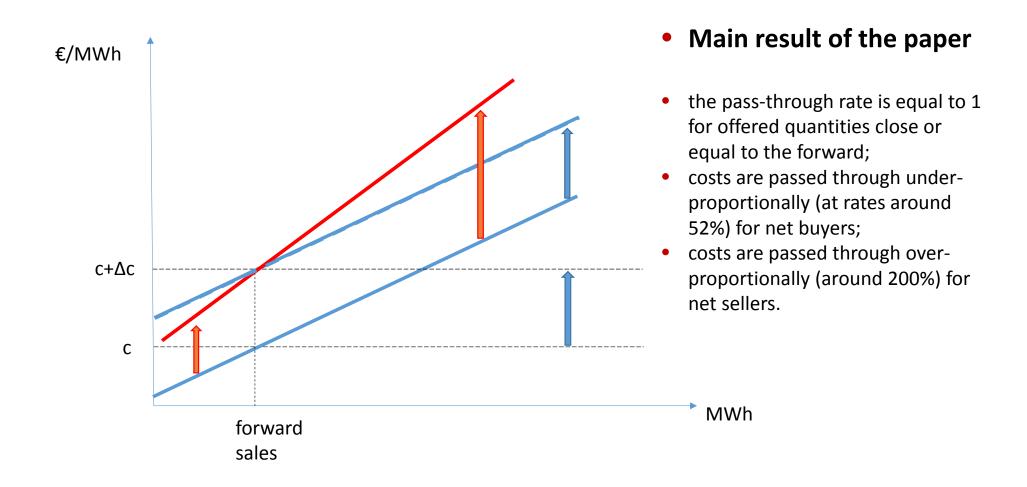


Supply function





Pass-through of a cost variation





Two questions

- 1. On forwards purchase
- 2. On ramping rates

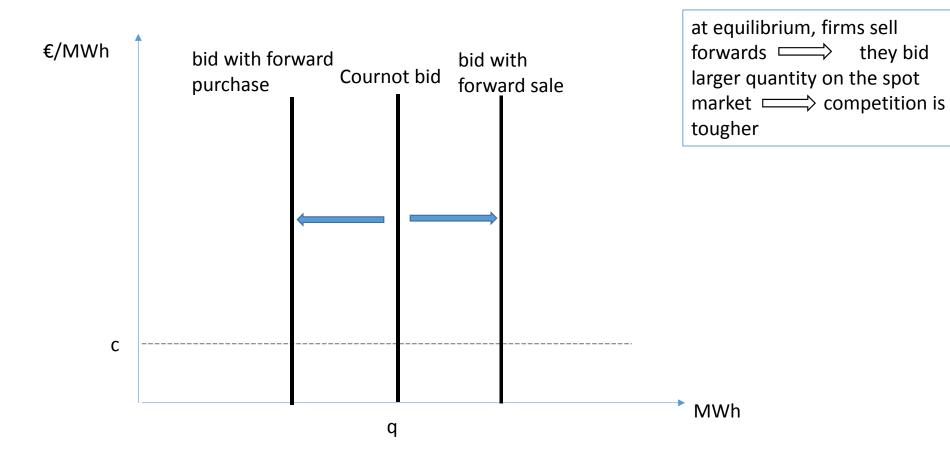


1. On forwards purchase

- Allaz and Vila (JET 1993)
 - In a duopoly where firms compete in quantities, producers sell forward and spot prices are lowered below the levels reached in the absence of forward trading: forwards are good for competition.
- Mahenc and Salanie (JET 2004)
 - In a duopoly where firms compete in **prices**, producers **buy** forward and spot prices are **raised** above the levels reached in the absence of forward trading: forwards are **bad** for competition.

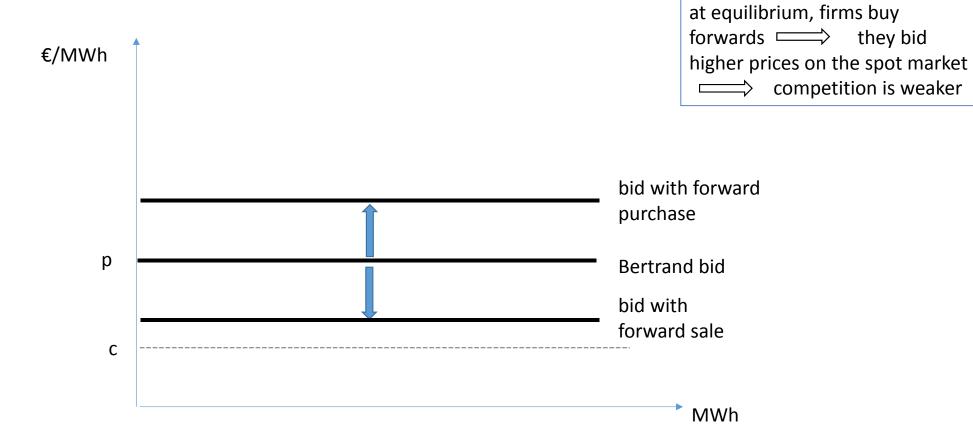


Allaz and Vila



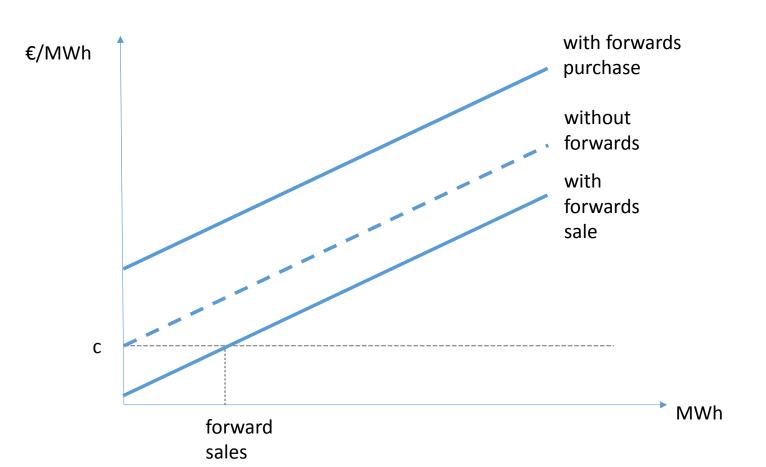


Mahenc and Salanié





Supply function with forward purchase



- "The total net forward positions of firms are not observable. Indeed, the net-forward position are a conglomerate of financial contracts, physical delivery contracts and retail delivery obligations."
- Are you sure no producer is a buyer on the forward market?
- How could purchase strategy change your model?



2. On ramping rates

- "We estimate the forward position of each firm by intersecting expost optimal supply and marginal cost curves".
- Actually bidding below marginal cost can have technical reasons.
- Assume warm up costs:

$$C(q_t, q_{t+1}) = c_t q_t + c_{t+1} q_{t+1}$$
 where $c_{t+1} = c(q_t), c'(.) < 0$

Then

$$\Delta C/\Delta q_t = c_t + q_{t+1} c'(q_t) < c_t$$

- "only thermal units of the four major firms in the market are included in the regression"
- Don't you overestimate the role of forward selling in left part of the supply function?