

# Comments on "Take or Pay Contracts and Market Segmentation" by M. Polo and C. Scarpa

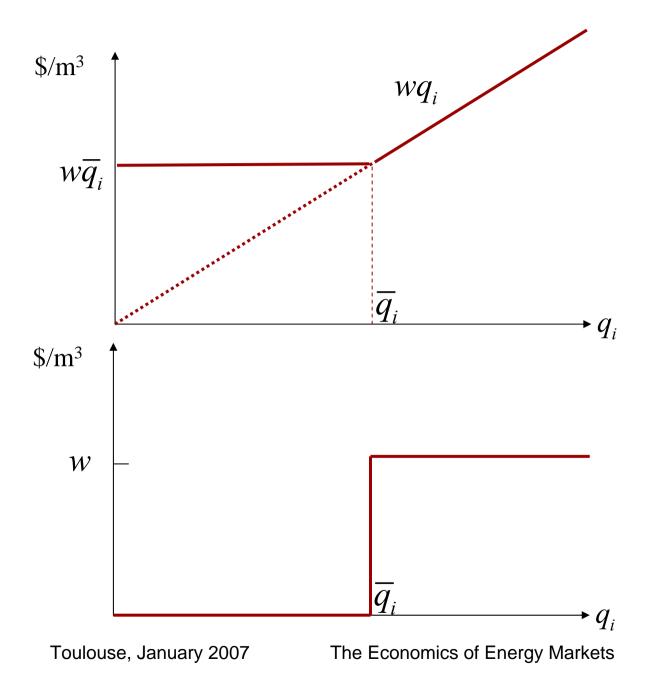
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# EC's view on the gas market liberalization

#### • According to P&S:

- the EC wrongly consider that Gas Release + TPA are necessary and sufficient conditions for gas liberalisation;
- the EC does not sufficiently consider the bias from Take Or Pay obligations
- -competition could be enhanced with a centralized pool because it would prevent TOP holders (with zero marginal cost) from playing strategically on the retail market.
- •P&S propose a duopoly model to show how TOP holders segment the retail market to extract monopoly rents, which would be impossible on a pool.



# on the technology

#### Questions:

- \* what if w is not the same for the incumbent and the entrant?
  - \* same question in the pool framework.

## on demand

net utility of consumer located at v when buying

from firm with characteristic  $x_i$ :  $u^* - p_i - \psi(v - x_i)^2$ 

You write: "Since gas is commodity, we assume that product differentiation is very limited in scope, i.e.  $\psi$  is very low, with  $\psi = 0$  as the limit case of perfectly homogenous sales"

Remark: low differentiation rather means that  $(x_i - x_j)$  is small; a low  $\psi$  refers to weak 'transportation cost', consequently low switching cost.

Question: did you try to make  $x_i$  and  $x_j$  endogenous? What if  $(x_I, x_E)$  is (0,1) instead of (1/4, 3/4)?

# on the timing

#### my understanding:

- \* entry: firm *I* visits each consumer, then *E* (maybe) visits each consumer (page 7);
  - \* competition: I and E simultaneously announce  $(p_I, p_E)$ .

#### Questions:

- \* how do E and I know about the other's visit?
- \* what occurs during the visits? Is there any commitment?
- \* is *E* allowed to propose different prices to the consumers who have been visited by *I* and those not visited?

# on the two-market modeling

\* the former timing is first applied up to the TOP commitment of *I* (market 1), then to the residual demand (market 2)

#### Remark:

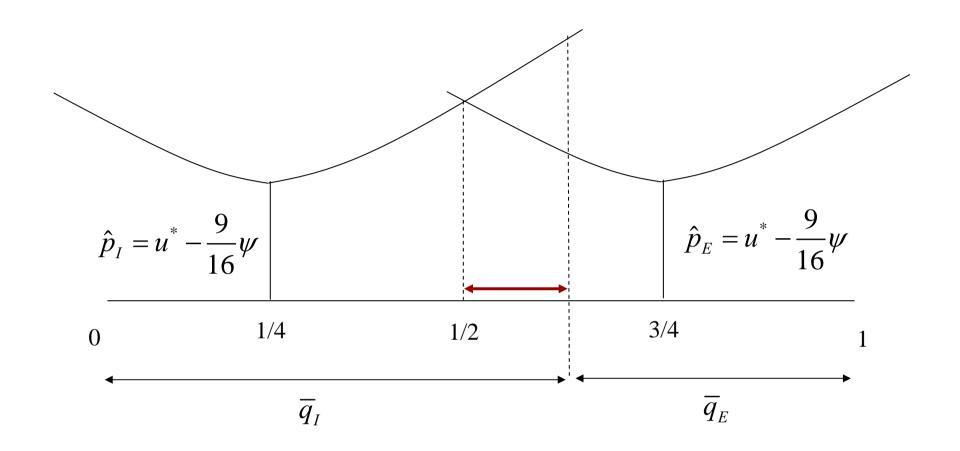
\* since *I* exhaust its TOP capacity in market 1, this timing gives leadership to *E* in market 2.

# subgame perfect equilibrium

\* in the unique subgame perfect equilibrium, *I* is a monopoly on market 1 and *E* is a monopoly on market 2.

#### Remark:

\* this requires that consumers have no anticipation on the price stage at the time they are visited and commit to be a client of I (market 1) or E (market 2) before knowing the prices



if they rationally anticipate the last stage of the game, all consumers on the right of 1/2 should decline to commit with I.

### wholesale market

\* proposition 10: the equilibrium wholesale price is at most equal to w.

#### Question:

\* could the result be derived from the first part in the case where  $x_I = x_E$ ?

#### Remark:

\* the problem seems isomorphic to competition on a wholesale electricity market; see Fabra, von der Fehr and Harbord (2002, 2005) or Crampes and Creti (2006).