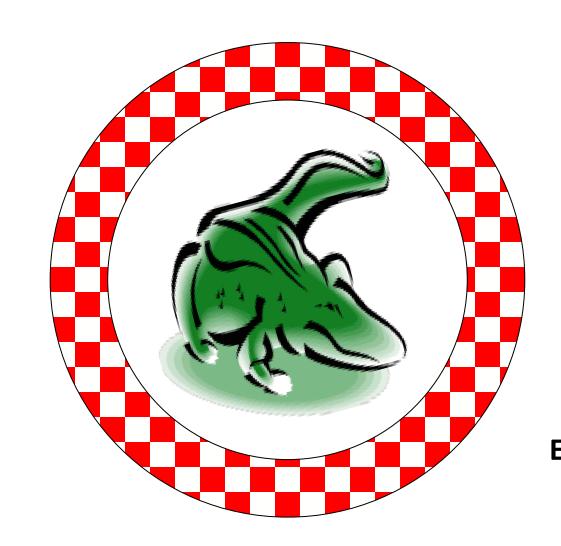
Towards a Steeper Learning Curve with the CrocodileAgent 2012



The Trading Agent Competition (TAC) is an international forum which promotes high quality research regarding the trading agent problem





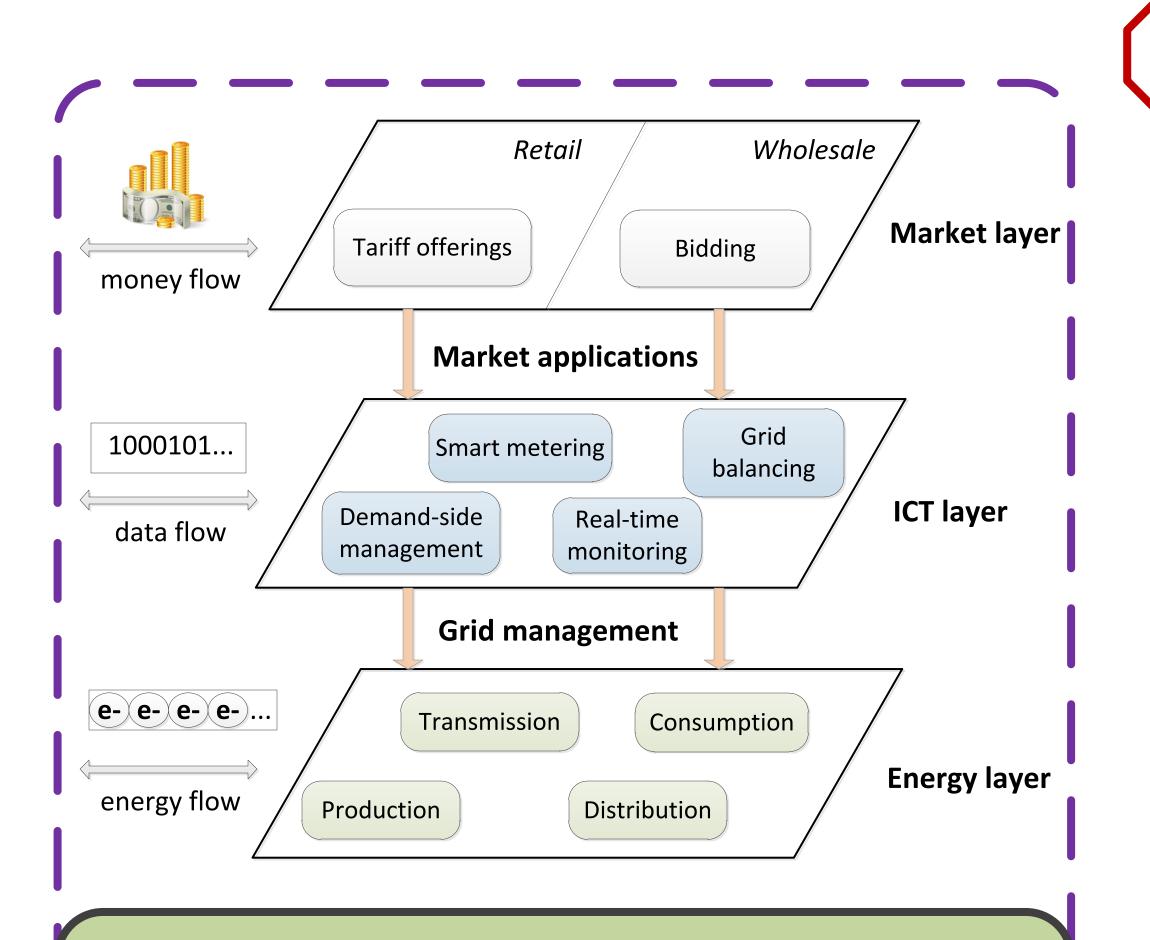




Erasmus Energy Forum Reinventing the energy landscape: Shaping a future sustainable retail energy business

> Rotterdam, The Netherlands 15 June 2012

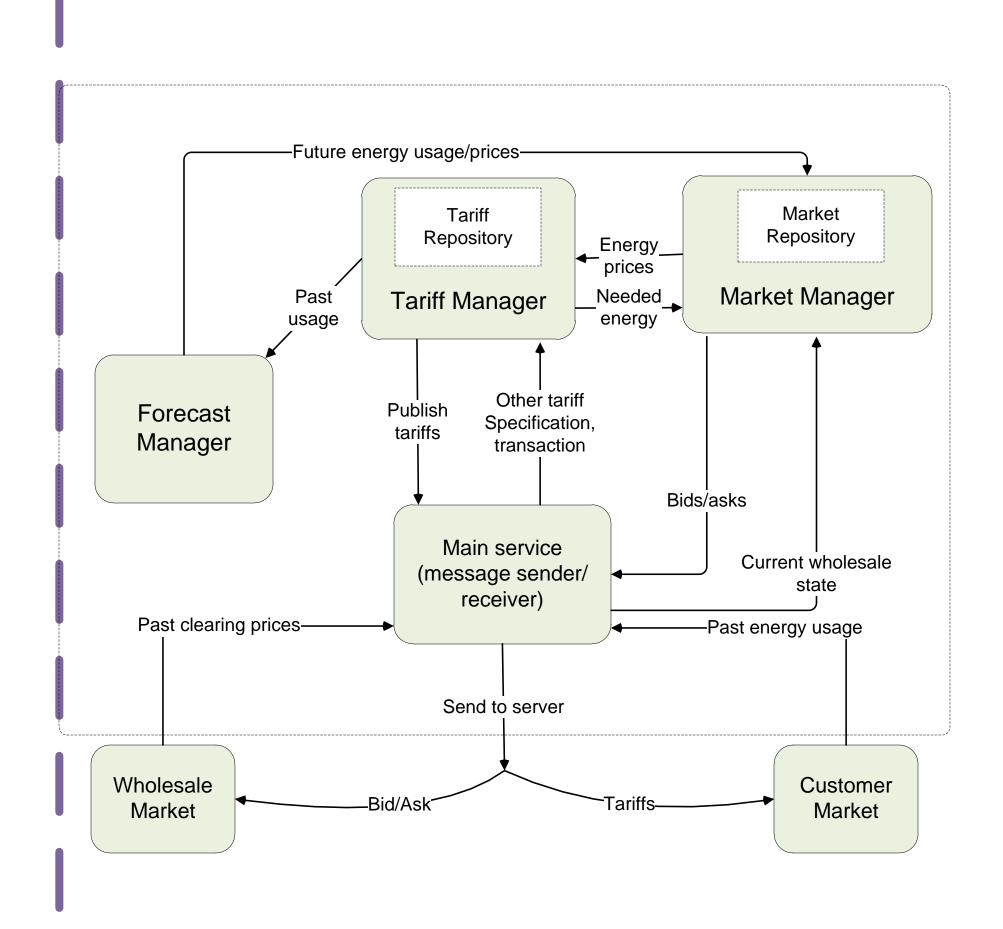
Jurica Babic, Sinisa Matetic, Marin Matijas, Ivo Buljevic, Ivana Pranjic, Marija Mijic, Mia Augustinovic, Ana Petric, Vedran Podobnik

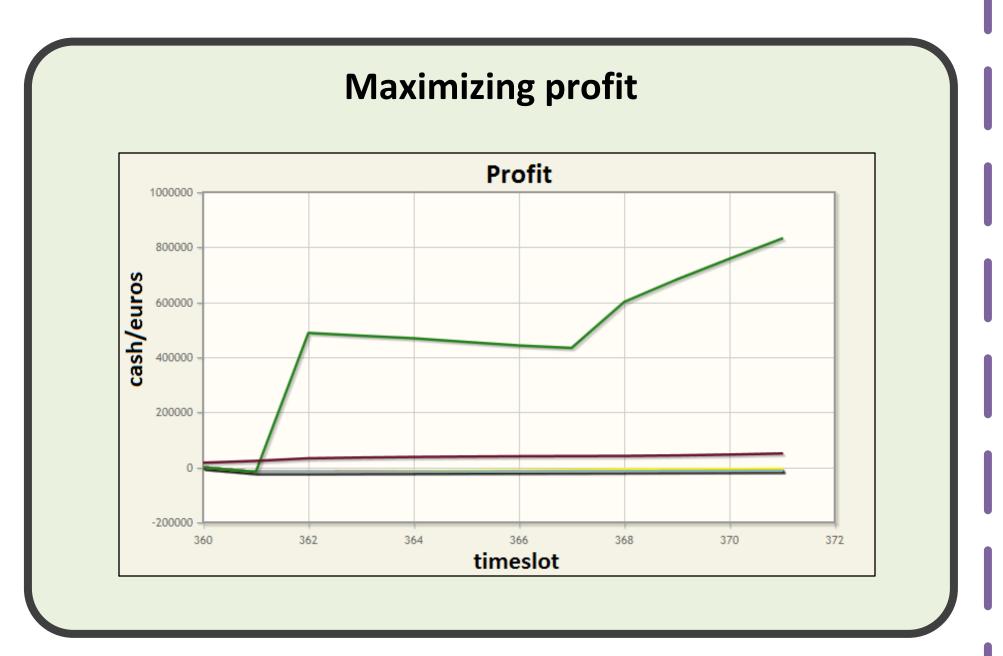


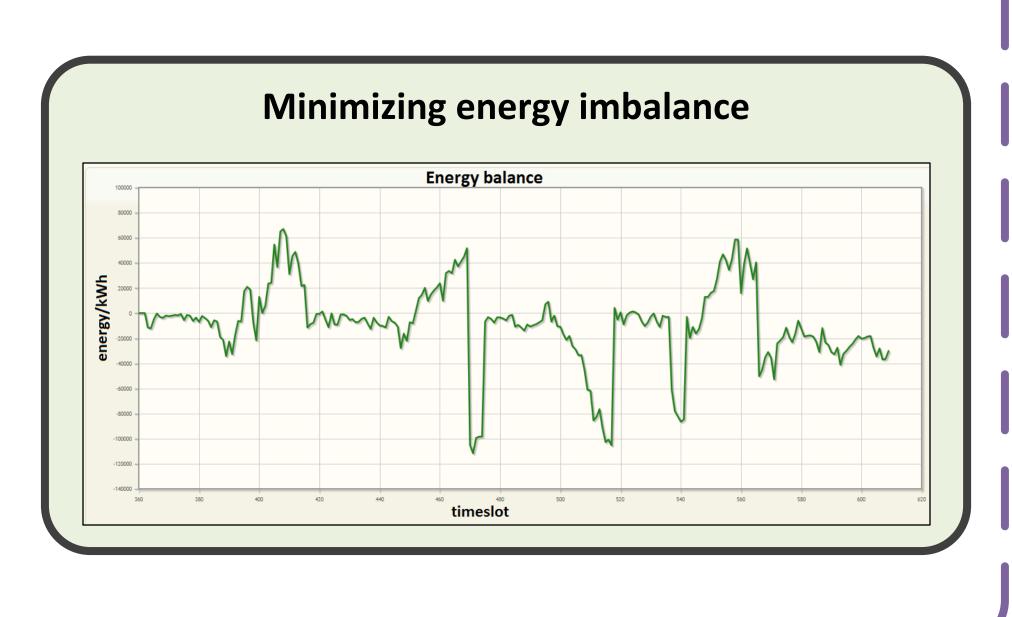
Power Trading Agent Competition (Power TAC) is an open, competitive market simulation platform aiming to provide an insight into the structure and operation of retail power markets. Research results obtained from Power TAC will be used to derive market rules for future retail-level power markets. In this simulation competitors are brokers that provide energy services to retail customers using tariff offerings, while managing their energy loads by trading in a wholesale market

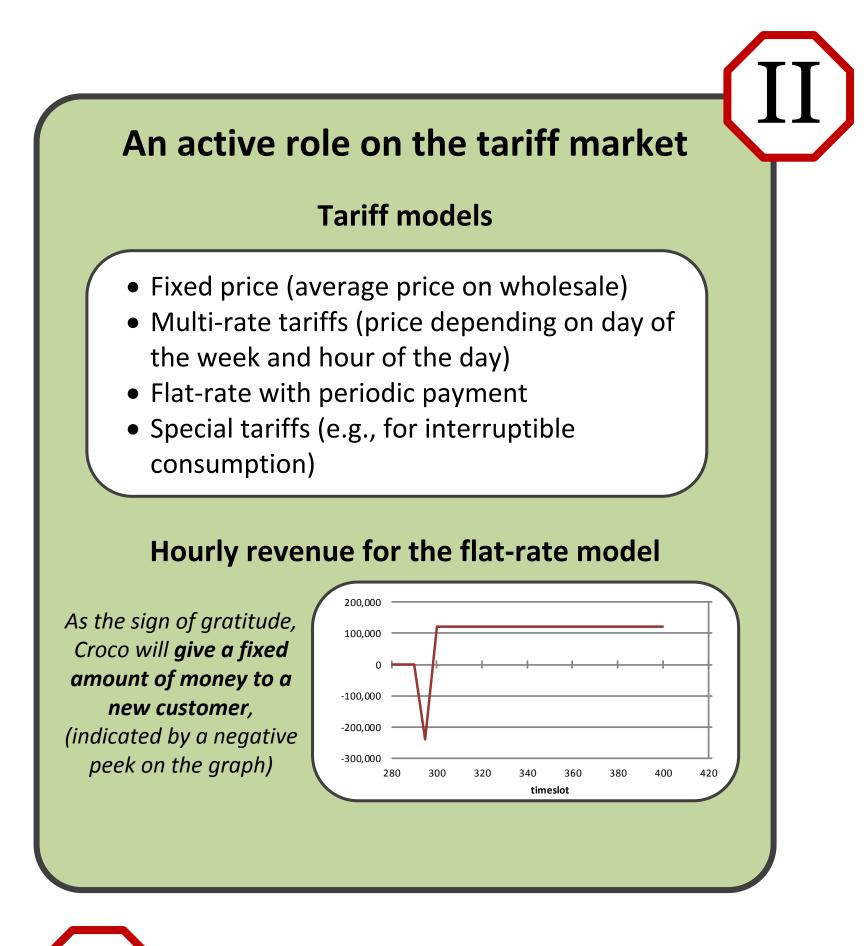
CrocodileAgent 2012 is our agent that participates in Power TAC 2012. Its chief advantage is its active tariff offering adjustment. It consists of three main modules:

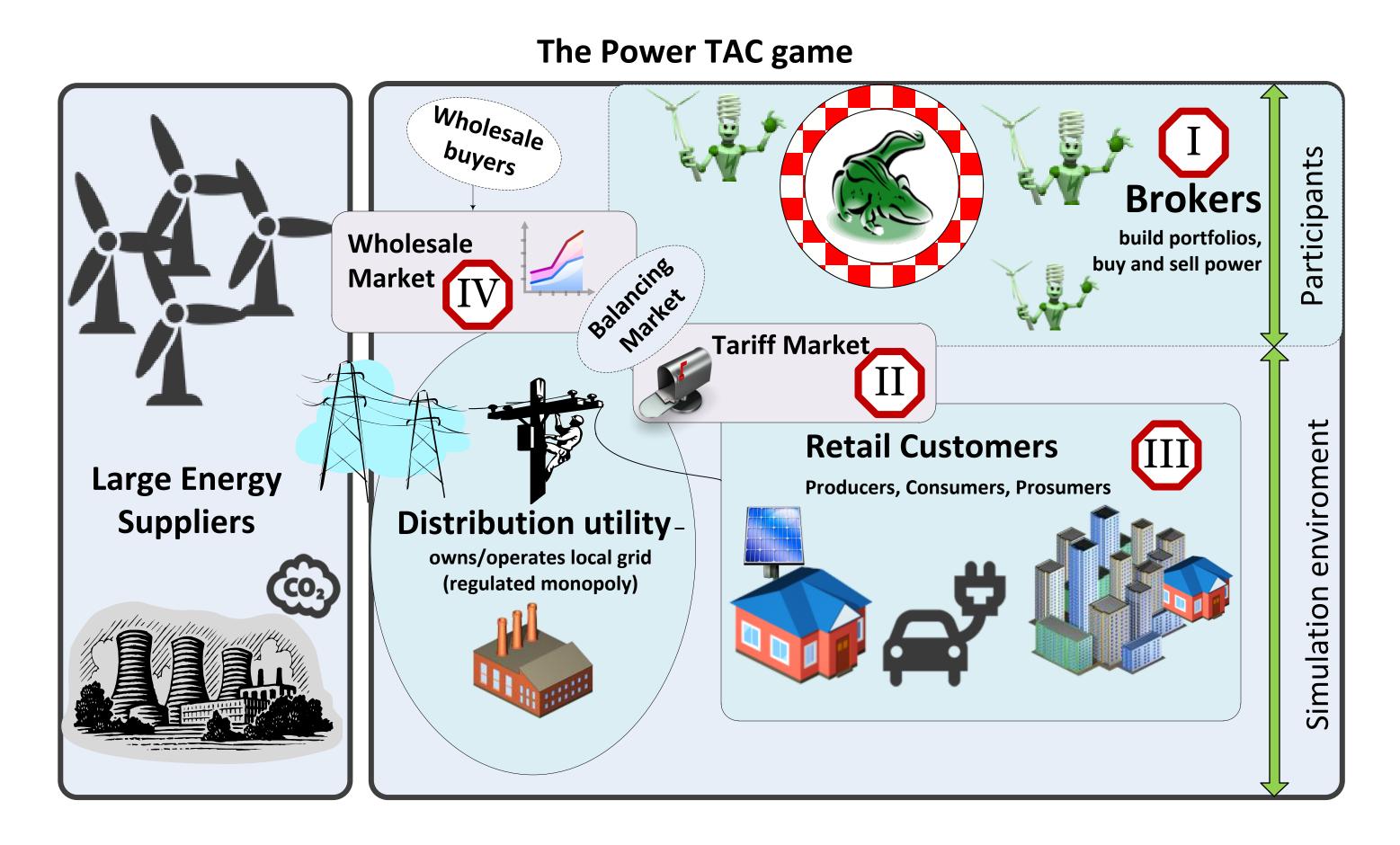
- Tariff Manager;
- Market Manager; and
- Forecast Manager.



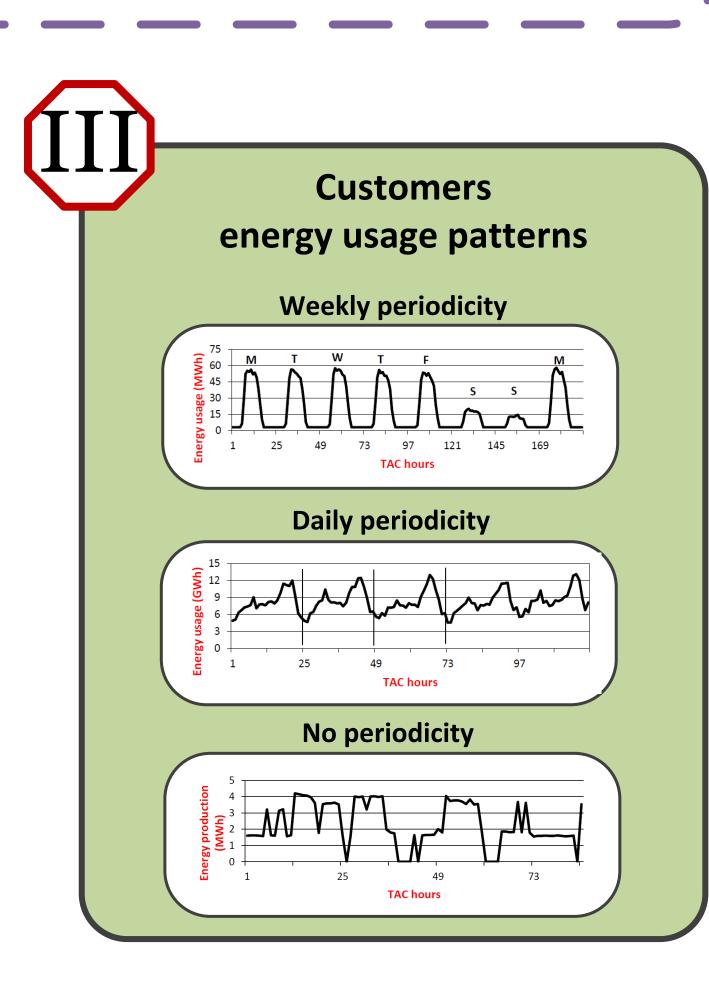


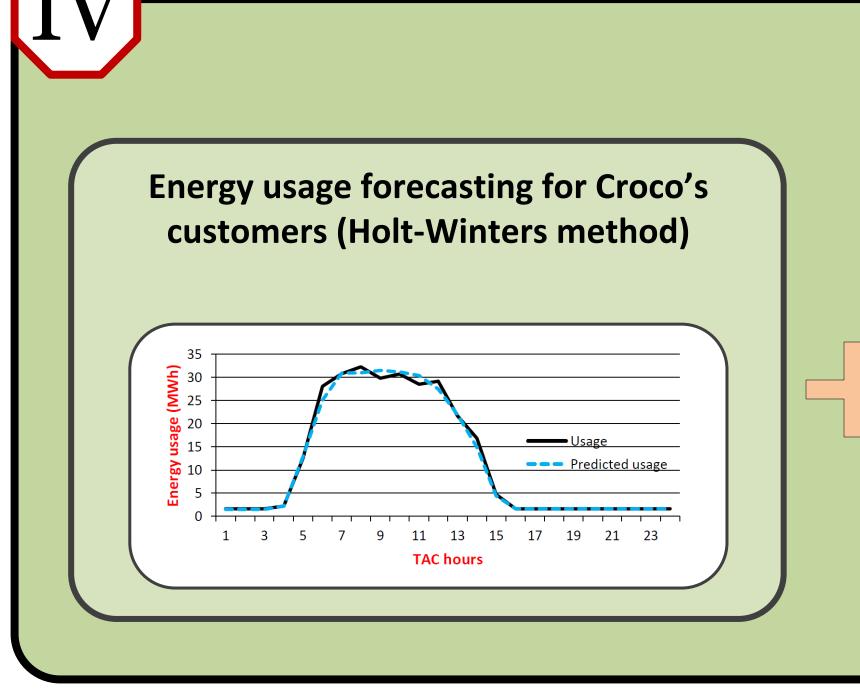


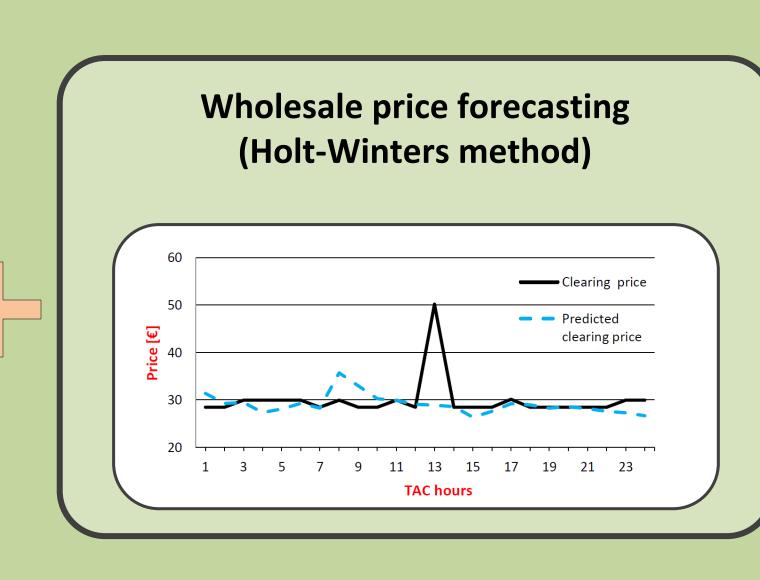




Wholesale activities: forecasting and order assembling





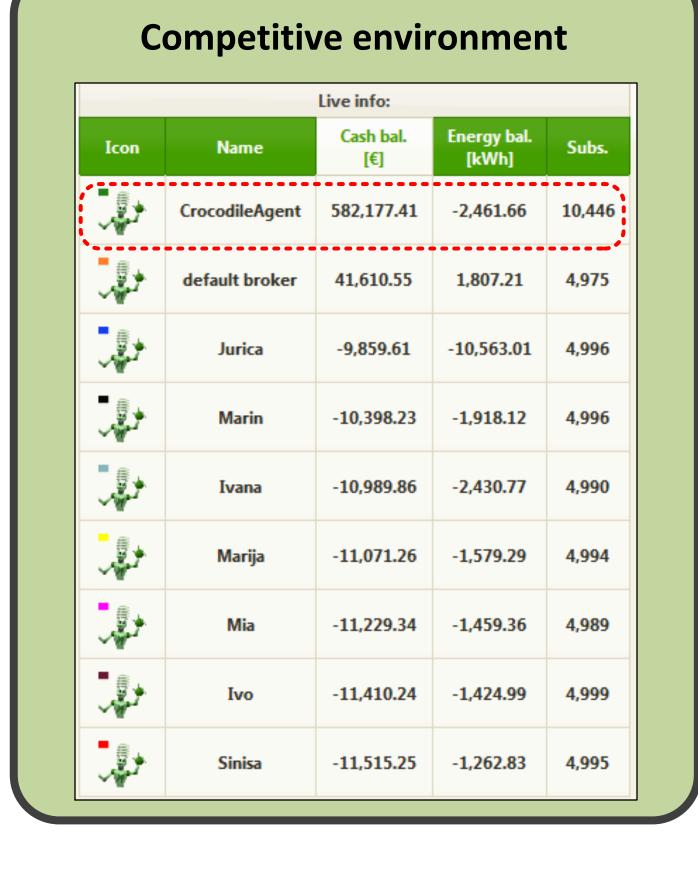




- Current timeslot?
- Timeslots open for trading? • Energy balance for a timeslot?
- Adapt to game parameters?
- Use price boundaries?
- Which price calculation function to use?

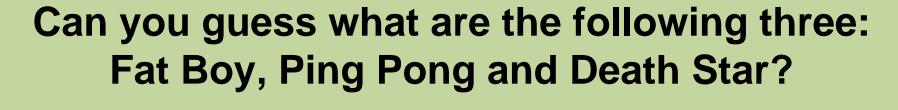


CrocodileAgent Official Website: http://agents.usluge.tel.fer.hr/power_tac



Publication

J. Babic, S. Matetic, M. Matijas, I. Buljevic, I. Pranjic, M. Mijic, M. Augustinovic: *The CrocodileAgent 2012:* Research for Efficient Agent-based Electricity Trading Mechanisms, In Proceedings of Special Session on Trading Agent Competition @ KES-AMSTA 2012, Dubrovnik, Croatia, pp. 1-13, 2012



Towards a steeper learning curve:

The learning curve for the competition design can be improved by segmenting the one-year competition runs into more stages, e.g. three stages separated by three months each. This will in turn give faster feedback on retail power market design helping retailers and increasing welfare to the society at the same time.

