

OPTIMATE

A simulation platform to assess existing and innovative electricity market designs in Europe Newsletter, February 2014

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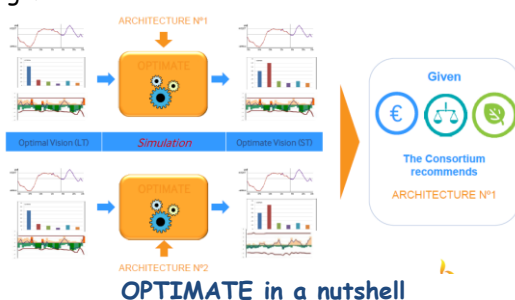
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The OPTIMATE platform in a nutshell

The OPTIMATE platform prototype (developed under the [EU-funded OPTIMATE project](#)) focuses on electricity system and market designs modeling with a view to assessing existing and innovative market designs in order to allow better integration of massive intermittent generation dispersed in several regional power markets. It integrates state-of-the art knowledge on market designs simulation in Europe with the support of five TSOs active in the CWE area.

OPTIMATE can study various market and system rules on a representation of the Western European power markets and systems, modeling a large number of market players' configurations, in order to evaluate different design options based on the three EU energy pillars: economic efficiency, climate policy and security of supply. The redistributive effects among players and geographic areas can also be measured so as to highlight possible issues when implementing a new design.



The OPTIMATE Platform as a market design assessment tool within the EU-supported Market4RES project

The EU-supported Market4RES project focuses on electricity market design in order to study a more efficient integration of renewable electricity (RES-E) into the pan-European electricity system, in line with the 2020 objectives and beyond.

The project aims at:

- Contributing to an open and transparent debate on the potential evolution of the EU Target Model (TM) after 2020,
- Identifying and recommending steps for the implementation of policy, legislation and regulations across the renewable energy sectors
- Identifying and recommending concrete steps so relevant market players can accept and adopt the main results of the project.

These issues will be addressed together with relevant stakeholders via two separate Work Streams:

1. **Assuming the current generation fleet as an input and current implementation status of the target model:** the focus will be on determining appropriate, yet novel, instruments for increased renewable electricity generation in support of the 20/20/20 targets. **The benefits of the options studied will be quantified and compared with the OPTIMATE Platform.**
2. **Assuming the future generation fleet (beyond 2020) as a result of current market designs, and taking into account possible future changes in market design beyond the existing TM:** the focus is on developing necessary additions or complementary instruments to the current design, which will induce investment incentives and phase-out support schemes in the long-term without compromising system adequacy or security of supply. If relevant, the OPTIMATE platform will also be used by this Work Stream.

The MARKET4RES public kick-off is scheduled on 28 April 2014 in Brussels (for more information click [here](#)).



OPTIMATE at the INNOGRID2020+ conference, 25-26 March 2014 Brussels (Belgium)

The third [InnoGrid2020+](#) European transmission and distribution research and development conference, jointly hosted by ENTSO-E, EDSO for Smart Grids and the EC-funded project GRID+, will take place on March 25th-26th 2014 in Brussels, Belgium.

This conference will bring together industry representatives, researchers and policy makers to assess where we are in terms of research and development to prepare the electricity grids of the future.

In this context, the OPTIMATE platform manager will present a poster during the dedicated poster and exhibition session ([see the agenda](#) of the event). Interested stakeholders will be able to interact with the development team.



Example of OPTIMATE Poster

OPTIMATE internal training session held on 22nd-24th January 2014

An internal training session on the OPTIMATE software suite took place on January 22nd - 24th 2014 in Versailles (France).

This three-day session went through the functional aspects of the OPTIMATE platform (mostly on Day-ahead and Real-Time modules), the platform behavior and scenario generation, and also encompassed practical sessions.

Attendees were the developers of the OPTIMATE team and RTE market department.

Users' access to the OPTIMATE Platform

Access to the platform is open for users who signed the OPTIMATE yearly license agreement.

Trainees attending the training sessions are granted a one-month free access to the platform, right after each session.

Current users of the OPTIMATE platform include: European regulators, Transmission System Operators and academics interested in conducting studies about electricity market designs.

Some experienced users, i.e. users who conducted studies during the OPTIMATE project, also signed license agreements.

The cost of a yearly, standard OPTIMATE user license is 1700€ (VAT excluded).

A user license gives access to the OPTIMATE platform, user manuals and cases as well as users' groups meetings to share experiences and build an OPTIMATE network.

European energy regulators, transmission system operators, academics, and public entities interested in using the OPTIMATE platform are invited to contact info@optm.eu



OPTIMATE Platform core

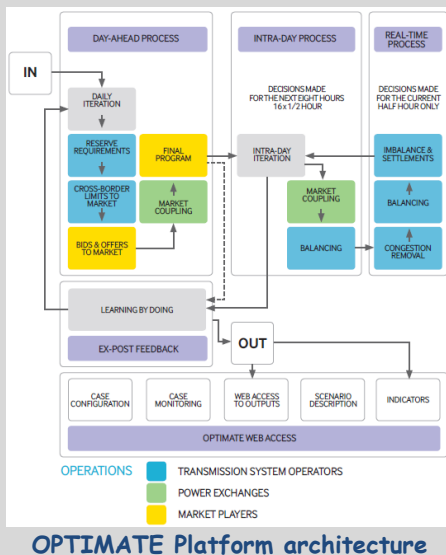


OPTIMATE platform update

The OPTIMATE platform prototype is regularly updated, thanks to new developments and industrialization activities led by RTE and by users' feedback.

The main novelty of the February 2014 release is the implementation of a simplified Balancing module of the Real-Time chain, which models TSOs' processes taking place less than half an hour before delivery.

Current platform users will be granted access to this new release **free of charge**.



OPTIMATE Platform architecture

OPTIMATE EU-funded project awarded the Core label by the European Electricity Grid Initiative (EEGI)

The OPTIMATE EU-funded project (2009-2012) was awarded the Core Label by the EEGI in December 2013.

The [EEGI Label](#) acknowledges that a specific project is in line with the spirit of the EEGI (i.e. knowledge sharing of results, system level innovation, etc.) and one or several EEGI Functional Objectives as specified in the EEGI Research and Innovation Roadmap.



Don't miss!

19th-22nd May 2104, OPTIMATE training session

The next OPTIMATE training session is planned from May 19th to 22nd 2014 in Paris (France).

The session addresses energy regulators, transmission system operators, academics, and public entities involved in electricity markets designs who deal with issues such as:

- How do different variable RES feed-in regimes affect the electricity system efficiency?
- Will flow-based market coupling outperform NTC coupling?
- How do CO₂ prices affect the whole system?

This three and a half day training course includes two sessions:

- Express session: May 19th (early afternoon) - May 20th 2014
- Advanced session: May 21st - May 22nd 2014

The costs of training session (per trainee) are:

- Full three and a half day training package: 1980€ (VAT excluded)
- Express session: 1350 € (VAT excluded)

The attendance of the Express session is required in order to participate in the Advanced session.

In order to ensure good training quality, the number of participants is limited. Register now!

Registrations are open until May 12th 2014.

[Readmore](#)

For further information concerning this publication, please contact: info@optm.eu

OPTIMATE

(An Open simulation Platform to Test integration in MARkeT design of massive intermittent Energy)
was a collaborative research and demonstration project
(2009-2012)

The research and demonstration activities leading to the existing prototype simulation platform received funding from the European Union's Seventh Programme for research, technological development and demonstration under DG ENERGY grant agreement n° 239456

[\(OPTIMATE project\)](#)

OPTIMATE EU-funded Project consortium

