

SIXTH FRAMEWORK PROGRAMME



Project contract no. 043363



MANMADE

Diagnosing vulnerability, emergent phenomena and volatility in man-made networks

SPECIFIC TARGETED PROJECT

NEST PATHFINDER

Sub-Priority Tackling Complexity in Science

M33: Deliverable 6.2 : The Deregulated European Energy Market

Revision [1]

Submission date: December, 2009

Start date of project: 1st of January 2007

Duration: 36 months

Lead author for this Report: D.K. Arrowsmith (QMUL).

Project co-funded by the European Commission within the Sixth Framework Programme (2002-2006)		
Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

1. Purpose of this report

This report provides a project update to the project Science Advisors, as of the report date. This report summarises:

1. the deliverable
2. the team leaders for the deliverable an outline of the activities
3. a report by the coordinator

1. Workshop on the “Deregulated European Energy Market”

The meeting was held at Collegium Budapest on September 24-25 September 2009. The participants were a mixture of academics, energy providers and government scientific advisors. The presentations are all available in the FTP folders on our manmadenet.eu web site. There were follow-up meetings of COLB and eon, the major energy distributor in Hungary. These meetings were facilitated by the workshop interactions.

2. The team leaders

The organisers were Prof. Gabor Papp and Prof. Gabor Vattay (COLB and Eotvos Lorand University), Dr Laszlo Varga (eon).

3. Report by the coordinator

The coordinator attended the meeting at which some five scientific presentations were made directly relevant to the theme of deregulation and new energy sources. There were presentations from JRC, COLB and EON. The talks covered
Wind power and its variability over Europe by Peter Kiss (COLB),
Data mining techniques by Laszlo Varga E.ON,
How to upgrade the European power grid to enable high penetration of wind power, by Zeno Farkas and Gabor Papp,
The behaviour of day-ahead electricity prices: Analysis of spot electricity prices using statistical, econometric, and econophysical methods, Zita Marossy
On the implementation of Geographic Information Systems and vulnerability assessment of networks to natural hazards, Flavio Bono.

Conference details

COLLEGIUM BUDAPEST
Institute for Advanced Study



Szentháromság utca 2.
H - 1014 Budapest
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Workshop on
DEREGULATED EUROPEAN ENERGY MARKET
24-25th September, 2009
Collegium Budapest, Hungary

The workshop presents an overview of the recent changes in the European energy market, such as consequences of the deregulation, increasing percentage of renewable energy, risks induced on the energy networks, energy supply and price fluctuation.

Topics include:

- European regulations
- Vulnerability and risk
- Energy price fluctuations
- Critical cascading failures
- Interconnected energy networks
- Effects of renewable energy

Speakers include:

- Dr. Flavio Bono, Joint Research Centre
- Dr. Zénó Farkas, Collegium Budapest
- Dr. Rita Labundy, National Office for Research and Technology
- Zita Marossy, Corvinus University
- Dr. László Varga, EoN Hungary

Schedule:

24 September, Thursday

12:00 Registration

14:00-18.00 Lectures

25 September, Friday

09.15-12.00 Lectures

The workshop is open to the public and free of charge.
In the framework of and funded by the MANMADE EU FP6 project.

Detailed program

24 September, Thursday

12:00-12:30	registration	
12:30-14:00	<i>lunch</i>	
14:00-14:15	Opening remarks	Andrew Sors
14:15-15:00	Data Mining Techniques in Electricity Pricing	László Varga
15:00-15:45	The behaviour of day-ahead electricity prices.	Zita Marossy
15:45-16:15	<i>coffee break</i>	
16:15-17:00	Estimating wind power potential and its variabilities over Europe	Péter Kiss
17:00-17:30	Wind power plants and the Hungarian power system (T.B.C.)	Zoltán Romhányi
18:00-	<i>banquet</i>	

25 September, Friday

9:15-10:00	On the implementation of Geographic Information Systems and vulnerability assessment of networks to natural hazards	Flavio Bono
10:00-10:30	<i>coffee break</i>	
10:30-11:00	Hungarian participation in FP7	Rita Labundy
11:00-11:45	How to upgrade the European power grid to enable high penetration of wind power	Zénó Farkas
12:00-	<i>lunch</i>	

Participants:

Prof. Arrowsmith, David	Head of School School of Mathematical Sciences, Queen Mary University of London	d.k.arrowsmith@qmul.ac.uk
Boja, Áron	student Eötvös Loránd University	
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Dr. Labundy, Rita	National Office for Research and Technology	rita.labundy@nkth.gov.hu
Dr. Kardon, Béla Kanevce, Aleksandra	Collegium Budapest Postgraduate student Faculty of Electrical Engineering and Information Technologies, Skopje	bkardon@colbud.hu aleksandra_kanevce@yahoo.com
Kiss, Péter Marossy, Zita Prof. Nowak, Maciek	Collegium Budapest Corvinus University Jagiellonian University, Kraków, Poland	kisspeter@complex.elte.hu zita.marossy@uni-corvinus.hu. nowak@th.if.uj.edu.pl
Romhányi, Zoltán	Hungarian Transmission System Operator Company Ltd.	

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