

## Newsletter MatER - June 2014

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### NEW LEGISLATION

On April 11<sup>th</sup> the new Legislative Decree n. 46 of March 4<sup>th</sup> 2014, "Enactment of Directive 2010/75/EU regarding industrial emissions (integrated prevention and reduction of pollution)" became law, and, with its 34 articles, modifies to some extent Legislative Decree 152/2006 (Environmental Code), abrogating Legislative Decree 133/2005 (from January 1<sup>st</sup>, 2016). In reference to waste, in article 15 the Legislative Decree introduces a new measure, "Title III-bis", to be inserted into the Environmental Code, having as its object "WASTE INCINERATION AND CO-INCINERATION".

[Learn more](#)



In the past few weeks several sentences have been released that clarify some interpretations of the principal decrees on waste. These are: 1) State Council sentence n. 1541 of March 31<sup>st</sup> 2014, which defines a waste biomass plant as a "renewable energy plant"; 2) High Court sentence n.16423/2014 on the definition of "end of waste" and 3) High Court sentence n.15659/2014 on provisional waste storage. [Learn more](#)

At the beginning of April some new environmental decrees were published:

- Legislative Decree 46/2014, a measure which adopts for Italy the EU Directive on industrial emissions, and which extensively reformulates the air, waste, and AIA (Integrated Environmental Authorization) laws of the “Environmental Code”.
- Legislative Decree 49/2014, a long-awaited restyling of the legislation related to electrical and electronic waste, introducing a scheme whereby consumers can take old WEEE to retailers for disposal, even if they do not purchase a replacement item (“one for zero” scheme).
- Legislative Decree 48/2014, which foresees simplifications in the “Seveso” context for thermo-electric power stations.
- Legislative Decree 45/2014, which includes changes in the management of radioactive waste.
- Legislative Decree 43/2014, which re-formulates the “eco-tolls” for HGVs.

[Learn more](#)



## NEW REPORTS/PUBLICATIONS

On March 13<sup>th</sup> the new “Green Technologies Report” was presented, written by Milan Polytechnic’s School of Management. The study, through the analysis of a sample of 80 companies, aims to further understanding of how they consider environmental sustainability (which solutions they have adopted, which intervention was given priority) to evolve and improve. [Learn more](#)



The Yearly Report on the Collection and Treatment System of Waste Electric and Electronic Equipment (WEEE) was presented in Milan on March 18<sup>th</sup>. A reduction of 5% in WEEE collected compared to 2012 emerges from the report, partly due to the crisis, but also to the informal or illegal management of WEEE: overall in Italy there are 3,759 WEEE Collection Centers, most of them concentrated in the northern regions (especially Lombardy). [Learn More](#)

Federambiente and Utilitatis presented their new Green Book 2014 on April 10<sup>th</sup> in Rome: the purpose of the publication is to highlight the economic aspects linked to waste management in Italy. Despite a general picture of economic crisis, the waste sector is experiencing a positive trend, both in terms of employment and of improvements in management results. The Green Book presents an analysis of the PEF (Economic and Financial Plans) of a good sample of Italian municipalities: in 2013 a sample-family composed by 3 persons living in a 80 m<sup>2</sup> flat paid an average of 246 € for the urban waste disposal services. [Learn more](#).

On May 20<sup>th</sup> the first CONAI Sustainability Report 2013 was presented in Rome; it is also the first "Green Economy Report" for Italy (according to the guidelines of the Foundation for Sustainable Development). The report analyses the environmental, economic and social performance of the packaging waste chain, which has now existed for 15 years in Italy; over this period, recovered packaging has increased to 76.4% from 33%, with 8.6 MT of waste sent for recovery. The objective of a 60% recovery rate by 2008 has thus been reached and exceeded. [Learn more](#)



## OTHER NEWS

During the [16th European Forum on Eco-Innovation](#) which took place at Hannover on the 7<sup>th</sup>-8<sup>th</sup> April 2014, the release in June 2014 of the new EU objectives for waste management was announced. The review process started last year, with a public consultation that ended in September 2013. [Learn more](#)



The Joint Research Centre (JRC) published the conclusions of a study ("Science for Environment Policy": European Commission DG Environment News Alert Service, edited by SCU, The University of the West of England, Bristol) which established new formulations for the indicators of the environmental impact of the waste life-cycle. The use of the new evaluation method for some kinds of waste management in the EU-27 confirmed that, in normalized terms, the most relevant impacts refer to the eutrophication of fresh water and global warming. [Learn more](#)

Waste Management World published an article in favor of energy recovery from waste in India. The analysis considers the 23 Indian cities that are predicted to generate more than 1000 metric tons of municipal solid waste per day over the next five years, reaching an overall production of 93,000 tons of municipal solid waste per day. In the author's opinion, at this rate solid waste management systems without waste to energy combustion technology will not be able to treat and recover energy from post-recycled waste safely and affordably.

[Learn more](#)



## MATER PUBLICATIONS AND PARTICIPATIONS

The intensive in-depth course on "Recovery processes and technologies for sustainable waste management", originally planned to run from 16th to 20th June 2014 in Sorrento (NA), has been deferred to a new date still to be set. [Learn more](#)

On June 27<sup>th</sup>, MatER and DICA took part in an interesting cultural exchange at Milan Polytechnic with Professor Gordon Yang of Kaohsiung University, Taiwan. Prof. Yang held a seminar on waste management in Taiwan and on the "zero waste" objectives to be reached: **"Efforts on the Promotion of Zero Waste and Resource Recycling in Taiwan"**. Taiwan has adopted a waste management hierarchy very similar to its European counterpart, with laws which regulate waste management and recycling and include provision for economic subsidies for those who recycle.

MatER Study Center, together with LEAP Consortium, had a stand at Bioenergy Italy 2014 (Cremona, March 7<sup>th</sup> 2014), and took part in a workshop held at the event: "How to Cooperate with University and Research Centers: benefits, financial breaks and possible synergies". [Learn more](#)



MatER Study Center and LEAP Consortium had a stand at "R2B – Research to Business 2014". In addition, during the event they took part in the bilateral sessions "Innovat&Match", in a speed pitch to present their activities, and an international meeting with China.

[Learn more](#)

Eng. M. Grosso from MatER Study Center, attended the ISWA Beacon 4<sup>th</sup> Conference on Waste Prevention and Recycling (Copenhagen, June 16<sup>th</sup>-17<sup>th</sup> 2014), titled *Resource Efficiency – "Closing the Loops!"* [Learn more](#)

Members of the **MatER** team gave the following presentations during events as follows: ([Learn more](#))

Mario Grosso: "LCA and waste prevention activities: setting the record straight" – 27<sup>th</sup> Meeting of the International Expert Group (IEG) on LCA for Waste Management (Naples, May 19<sup>th</sup>-20<sup>th</sup>).

Mario Grosso: "MSW incineration bottom ash recovery: Current situation and results from recent research in Italy" - Workshop "Possibility of reuse of incineration bottom ash in the context of the implementation of projects of municipal waste incineration plants in Poland" (Warsaw, May 21<sup>st</sup>).

Rigamonti L., Sterpi I., Lovato F., Grosso M. (2014). "How to compare different integrated MSW management systems" - SUM2014 Second Symposium on Urban Mining, May 19<sup>th</sup>-21<sup>st</sup> 2014, Bergamo (Italy). Organized by IWWG. ISBN 9788862650311, paper 26, 1-7.

Rigamonti L., Ferreira S., Grosso M., Marques R.C. (2014). "Economic-financial analysis of the Italian packaging waste management system". SUM2014 Second Symposium on Urban Mining, May 19<sup>th</sup>-21<sup>st</sup> 2014, Bergamo (Italy). Organized by IWWG. ISBN 9788862650311, paper 129, 1-8.

Falbo A., Biganzoli L., Forte F., Rigamonti L., Grosso M. (2014). "LCI of the WEEE management system in the Lombardy Region: a focus on R3 and R4 categories" - SUM2014 Second Symposium on Urban Mining, May 19<sup>th</sup>-21<sup>st</sup> 2014, Bergamo (Italy). Organized by IWWG. ISBN 9788862650311, paper 116, 1-8.



## NEXT EVENTS

The 5<sup>th</sup> International Conference on Engineering for Waste and Biomass Valorisation (WasteEng 2014) will be held August 25<sup>th</sup>-28<sup>th</sup> in Rio de Janeiro (Brazil). During the Conference MatER personnel will present the following oral presentations:



- Keynote lecture: S. Consonni, F. Viganò, W. B. Eremed - ULTIMATE ENERGY PERFORMANCES OF GRATE COMBUSTOR WTE PLANTS
- Oral presentation: F. Viganò - DETAILED MODELLING OF SIMPLE MBT PROCESSES
- Oral presentation: F. Viganò, M. Grosso, M. Zatti, G. Bortoluzzi, and S. Consonni - THE ROLE OF MBT IN A SUSTAINABLE WASTE MANAGEMENT

[Learn more](#)

**ISWA**  
**2014**

ISWA is organizing the Solid Waste World Congress (Sao Paulo, Brazil) to be held September 8<sup>th</sup>-11<sup>th</sup> and having as its theme “**(Re) Discovering a New World: Sustainable Solutions for a healthy future**”. During the Conference Lucia Rigamonti will present the following oral presentations: “Economic and environmental assessment of the Italian packaging waste management system” [Learn more](#)

The traditional Bi-annual Meeting of the WTER (Columbia University, New York, USA) is planned for October 9<sup>th</sup>-10<sup>th</sup> 2014

The Earth Engineering Center (EEC) of Columbia University, in collaboration with WTER-Greece/SYNERGIA and *CONSORCI per al Tractament de RSU del Maresme* is organizing a workshop entitled “Advancing sustainable waste management worldwide. The case of Catalonia/Maresme” to be held October 13<sup>th</sup>-15<sup>th</sup> 2014 during the **Recuwatt Congress** (Mataró, Spain). [Learn more](#)

**Recuwatt**



## KEEP IN TOUCH!

Note our contact details and keep up to date with the latest news on material and energy recovery from waste:



Twitter: [@materresearch](#)



LinkedIn: Open Group “[MatER - Recupero Materia ed Energia](#)”



YouTube: Channel “[Laboratorio MatER](#)”

**MatER Study Center wishes everybody a  
good summer 2014!**