

Program	Program NUCLEU PN 09 13 04 10
Project title (ENG):	Multicriterial methodology for the selection of gyps waste sustainable management alternatives from the energetic industry based on coal
Project title (RO):	Metodologie multicriteriala de selectie a alternativelor de gestionare sustenabila a deseurilor de gips din industria energetica bazata pe carbune
Duration	2014
Team Leader	Senior Reasearch Eng. Georgeta Madalina Arama
Summary (short description) ENG	The project created a management model (valorization and final disposal) of the resulted waste from the wet desulfurization of the flue gases from the great energetic units based on coal, using the multicriteria method of decision named Analytical Hierarchy Process for two relevant case studies of this industrial sector. The project has been established an hierarchical structure for the model to manage the gyps slurry waste, as it results from the process or with amended composition, by valorizing or managing the gyps slurry. An automated calculus support with computation spreadsheets, procedures and user manual for the proposed methodology has been realized.
Summary (short description) RO	Proiectul a urmarit crearea unui model de gestionare (valorificare si depozitare finala) a deseurilor rezultate de la desulfurarea umeda a gazelor de ardere din marile unitati producatoare de energie pe baza de carbuni, folosind metoda multicriteriala de decizie numita Proces de Ierarhizare Analitica – abreviere AHP (Analytical Hierarchy Process) – pentru doua studii de caz relevante ale acestui sector industrial. Proiectul a stabilit o structura ierarhica pentru modelul de gestionare a deseurilor de slam gips, asa cum rezulta din proces sau cu compozitia amendata, prin valorificarea sau depozitarea finala. S-a realizat un suport de calcul automat cu fisiere de calcul, proceduri si manual de utilizare a metodologiei propuse.
Dissemination of results	
Conferences (platform, poster, abstract / full-paper)	D.Guta, G.M., Arama, B., Stanescu, Gh., Batrãnescu, C.B., Lehr “ <i>Hazard Assessment for Waters Using Multicriterial Methods Considering European and International Harmonized Legislation</i> ”, poster, PROCEEDINGS BOOK ”GreInSus”2014 - International Congress on „Green Infrastructure and Sustainable Societies/Cities”GreInSus”May08-10,2014, Izmir–TURKEY., editors:prof.dr. Nuri Azbar, prof. dr.Fokion Vosniakos, prof. dr. Yusuf Kurucu, dr. Nurdan Erdogan,Res. Ass. S. Tugce Kalkan, 2014, pg. 82-86, ISSN 978-605-85204-1-7
	G. M. Arama, L.F. Pascu, C. Lehr “The use of EMAS III “ <i>Indicators and AHP in organization environmental performance analysis</i> ”, Environmental Engineering and Management Journal – Accepted for publication, May 2015.