

Program	Program Nucleu PN 09 -13 02 07
Project title (ENG):	Methodology for estimating emission factors and oxidation to assess greenhouse gas emissions for solid and liquid fuels
Project title (RO):	Metodologie de estimare a factorilor de emisie si de oxidare in vederea evaluarii emisiilor de gaze cu efect de sera pentru combustibili solizi si lichizi
Duration	2009-2014
Team Leader	Senior Researcher Eng. Elisabeta Mona Barbu
Summary (short description) ENG	Project aimed at developing and promoting the methodology for calculating the emission factor and oxidation, carbon content and influence, the effect of using biomass in reducing CO ₂ emissions and promoting the method of direct measurement of CO ₂ emission source / cos. To determine the emission of CO ₂ can be used both methods, so that by calculation and direct measurement of the emission source, the results are comparable; fits the observed differences in uncertainty accepted for automatic measurements and 10% respectively.(ENG)
Summary (short description) RO	Proiect a urmarit dezvoltarea si promovarea metodologiei pentru calculul factorului de emisie si de oxidare, influenta continutului de carbon precum, efectul utilizarii biomasei in reducerea emisiilor de CO ₂ precum si promovarea metodei de masurare directa a emisiilor de CO ₂ la sursa de emisie/cos. Pentru determinarea emisiei de CO ₂ pot fi utilizate ambele metode,atat cea prin calcul cat si masurarea directa la sursa de emisie, rezultatele obtinute fiind comparabile; diferentele observate se incadreaza in marja de incertitudine acceptata pentru masurari automate, respectiv 10%. (RO)
Dissemination of results	
Full-paper ISI	Mona Barbu , Mihai Bratu, Ovidiu Dumitrescu, <i>The influence of biomass use on CO₂ emissions in resulted from burning solid fuels in the energy sector</i> , Romanian Journal of Materials, 2015, 45 (2)
Conferences (platform, poster, abstract / full-paper	Mona Barbu ; Elena Bucur; Ileana Nicolescu; Andrei Vasile; Cristina Dascalu- Analytical investigations on chopped waste of biomass and slag recycling from the energetic domain - Simpozion INCD ECOIND "Mediul si Industria", Bucuresti, November 2011-vol II, p. 201-208, ISSN 1843-5831
	Mona Barbu ; Elena Bucur; Mihai Bratu, Comparative analysis of methods for monitoring CO ₂ emissions from the energy sector in the context of climate change - Simpozion INCD ECOIND "Mediul si Industria", Bucuresti- October 2013
	Valeriu Danciulescu , Elena Bucur, Andrei Vasile, <i>Biomass wastw gasification in order to reduce air pollution-</i> Simpozion INCD ECOIND "Mediul si Industria", Bucuresti, 2013
	Andrei Vasile , Elena Bucur, <i>Quality assurance for emission monitoring performed with automated measurement systems</i> Simpozionul International „Prioritatile chimiei pentru o dezvoltare durabila” – PRIOCHEM – Bucuresti, 30-31 oct. 2014
	Mona Barbu ; Elena Bucur; Mihaela Petrescu; Mihai Bratu Criteria for assessing the quality of solid fuels energy in the context of CO ₂ emissions. Symposium for Industrial Environment and INCD ECOIND - Bucharest -October -2015