SERGIO SASTRE SANZ

Member of ENT since July 2015
Consultant, researcher and coordinator of waste and economy and environment projects

EDUCATION

- 2021. PhD Environmental Science and Technology, Universitat Autònoma de Barcelona.
- 2007. Master degree, Environmental Sciences, Ecological Economics at ICTA, Universitat Autònoma de Barcelona.
- 2001-2006. Bachelor in Environmental Sciences at Universidad Autónoma de Madrid.

PROFESSIONAL EXPERIENCE

- 2011-2014 – Research Technician at the Marine Sciences Institute (CSIC) within the EU Project VECTORS.
- 2008-2011 - Research Technician at the Marine Sciences Institute (CSIC) within the EU Project SPICOSA.
- 2008-2011 - Research Technician at the Social ecological systems laboratory, Universidad Autónoma de Madrid.
- 2008-2011 - Internship in the Aigüestortes National Park.
- 2007-2008 - Research Technician at Ambiental Science and Tecnology Institute (ICTA) within the project 'El metabolismo socioeconómico de la economía española. Un análisis interregional, 1995-2005'. Directed by Óscar Carpintero, Jordi Roca and Joan Martínez Alier.

MOST RELEVANT AREAS OF EXPERTISE

- Material Flow Accounting.
- Waste management and circular economy.
- Environmental taxation.
- Waste management and environmental taxation.
- Multicriteria Integrated Assessment.
- Environmental economics and ecosystem services.

MAIN PROJECTS

- Calculation of statistics and indicators of circular economy and waste. IHOBE | 2022. [Coordination]

- Technical assistance to establish the calculation of a recycling index for different flows of municipal waste in Catalonia. Catalan Waste Agency | 2022. [Coordination]
- Study on fraud in terms of extended producer responsibility (EPR) of domestic packaging placed on the Spanish market. Ministry for the Ecological Transition and the Demographic Challenge | 2022. [Coordination]
- Technical assistance in order to prepare the 2030 Strategy and the Local Action Plan to promote the circular economy in Vitoria-Gasteiz. Vitoria City Council | 2022.
- Update of the Material Flow Accounts for Catalonia, database and indicators for the year 2018. Catalan Institute of Statistics (IDESCAT) | 2021. [Coordination]
- VAT as an instrument of environmental taxation in Spain. Institute of Fiscal Studies | 2021. [Coordination]
- Accounting of material flows of the Balearic Islands. Balearic Islands Government | 2021. [Coordination]
- Technical assistance service for the revitalization and updating of the "Catalunya Circular" Observatory. Eurecat | 2021.
- Best practices in achieving waste reduction in the Mediterranean. Union for the Mediterranean | 2021. [Coordination]
- Implementation of measures to prevent marine litter generated by beverage containers in the Cabo de Gata-Níjar Natural Park. Catalan Waste Agency | 2021. [Coordination]
- Study of new models and scenarios on the technical and environmental feasibility of the implementation of a deposit, refund and return system (SDDR) in Spain. Ministry for Ecologic Transition and Demographic Challenge | 2021.
- Understanding illegal plastic waste shipments in the EU - Focus on Spain. Zero Waste Europe | 2021. [Coordination]
- Scoping study to assess the feasibility of further EU measures on waste prevention and implementation of the Plastic Bags Directive. Eunomia for the European Commission | 2020.
- Landfill tax and waste markets. IHOBE | 2020.
- Proposal review on a waste tax in the municipality of Las Palmas de Gran Canaria. Las Palmas de Gran Canaria City Council | 2020.
- Canon and waste markets. IHOBE | 2020.
- Support for the drafting of a LIFE proposal on nature tourism. Neàpolis | 2020.
- Mapping of material/energy/waste flows in the industrial areas of Vitoria-Gasteiz. CIMAS INNOVACIÓN Y MEDIO AMBIENTE, S.L.L. | 2020.
- Technical and environmental feasibility study of the implementation of a deposit-refund scheme (DRS) in Spain. Tragsatec | 2020.
- The effectiveness of the application of the waste tax and their evolution. Catalan Waste Agency | 2019.
- Analysis of the environmental and economic costs of light packaging waste management and their distribution in Spain. Amigos de la Tierra | 2019.

- Preparation of the Commission's guidance on the implementation of the general minimum requirements for EPR. Eunomia | 2019 - 2020.
- Elements for the development of environmental taxation on extractive activities in Catalonia. Centre de recerca ecològica i aplicacions forestals (CREAF-UAB) | 2019.
- Supporting the Evaluation of the EU Biodiversity Strategy to 2020 and Follow-up. European Commission | 2019 - 2021.
- Update of the material flows in Catalonia. IDESCAT | 2019. [Coordination]
- Study of associated costs of the tasks carried out by the local entities of Catalonia in the management of waste electrical and electronic equipment. Catalonia Waste Agency | 2019.
- Study on investment needs in the waste sector and on the financing of municipal waste in Member States. Eunomia | 2019.
- Fiscal instruments for the Circular Economy in Spain. Institute of Fiscal Studies | 2018.
- Analysis of data on light packaging in the Balearic Islands. Government of the Balearic Islands | 2018.
- Position paper on a European tax on plastics. Zero Waste Europe | 2018.
- Study for consistency analysis of packaging and packaging waste data in Catalonia. Catalonia Waste Agency | 2017 - 2018.
- Calculation and analysis of material flow indicators for Catalonia. IDESCAT | 2017.
- Analysis of reform scenarios of the Metropolitan Waste Treatment Charge (TMTR). Àrea Metropolitana de Barcelona | 2017.
- Analysis of the waste charge in Las Palmas de Gran Canaria, Spain. Las Palmas de Gran Canaria City Council | 2017 - 2018.
- Report on the structure of waste treatment tariffs for 2017 of the GHK Waste Consortium. Consorci de Residus GHK | 2017.
- Advice on environmental taxation for the drafting of the Regional Waste Law. Gestión Ambiental de Navarra (GANASA) | 2017.
- Early Warning Mechanism - Study to Identify Member States at Risk of Non-compliance with the 2020 target of WFD and to Follow-up the Compliance Promotion Exercise Phase 1 and 2. Spain. Eunomia for the European Commission | 2017.
- Feasibility study for the implementation of a selective waste collection of organic fraction in Zaragoza.
- Early Warning Mechanism - Study to Identify Member States at Risk of Non-compliance with the 2020 target of WFD and to Follow-up the Compliance Promotion Exercise Phase 1 and 2. Spain.
- A Comprehensive Review of Gaps and Weaknesses and Key Priority Areas for Improvement in the EU Waste Statistics.
- Design and survey analysis to assess the experience of home composting in Asturias.
- Study on reform scenarios of the Metropolitan Waste Treatment Rate (TMTR)
- Study of waste charges in Las Palmas de Gran Canaria, Spain.

- Study on the feasibility of the implementation of a deposit-refund scheme (DRS) for single-use beverage containers in Catalonia.
- Technical, environmental and economic availability study for implementing a deposit and return system SDDR.
- Capacity building, programmatic development and communication in the field of environmental taxation and budgetary reform.
- Linking Biodiversity to National Economic and Social Priorities in the EU State Members
- Study on the economic benefits of Marine Protected Areas.
- Municipal waste compliance-promotion exercise 2014-2015.

MAIN PUBLICATIONS

- Martinez Sanchez, V., Sastre Sanz, S. and Puig Ventosa, I., Review of economic and socio-economic studies on recycling topics, Publications Office of the European Union, Luxembourg, 2021, ISBN 978-92-76-41936-5, doi:10.2760/041884, JRC126384.
- Sastre, Sergio. 2021. "Resources Extraction, Trade and Waste Management: A Regional Approach to the Spanish Socioeconomic Metabolism." Phd Thesis. Institut de Ciència i Tecnologia Ambeintals. Universitat Autònoma de Barcelona.
- Pellicer, P., Puig I., Sastre, S., Iriani, M. (2020) Una mirada a las tasas de residuos en España 2020. Equipamiento y Servicios Municipales, nº 193: 28-31.
- Sastre Sanz, S., Puig Ventosa, I., Llopart, J. (2019). 'Mind the gap': un modelo para el seguimiento de los objetivos europeos de reciclaje aplicado a las Comunidades Autónomas españolas. RETEMA, 216: 102-105.
- Sastre, S. and Puig Ventosa, I. (2019) 'La dimensión fiscal del vehículo eléctrico en España', Economía Industrial, (411), pp. 69–84.
- Puig I., Sastre, S. Iriani, M. (2018) Una mirada a las tasas de residuos en España 2018. Equipamiento y Servicios Municipales, nº 185: 10-14.
- Sastre, S., Llopart, J., Puig Ventosa, I. 2018. Mind the gap: a model for the EU recycling target applied to the Spanish regions. Under review, Waste Management.
- Puig Ventosa, I. and Sastre, S., 2017. An exploration into municipal waste charges for environmental management at local level: the case of Spain. Waste Management & Research, 39(11), 1159–1167.
- Sastre, S. and Puig Ventosa, I., 2016. Assessment of country reports and proposals for country-specific recommendations: Spain. In: Assessment of country reports and proposals for country-specific recommendations. Green Budget Europe, CEE BankWatch and European Environmental bureau, 118.121.
- Puig Ventosa, I. and Sastre Sanz, S., 2016. Las tasas de residuos en España. Crónica Tributaria, (159), 131–164.
- Sastre, S., 2015. Air Pollution from Waste Disposal: Not for Public Breath. Zero Waste Europe.

- Óscar, C., Sastre, S., Lomas, P., Arto, I., Bellver, J., Delgado, M., Doldán, X., Fernández, J., Frías, J., Ginard, X., González, A.C., Gual, M., Murray, I., Naredo, J.M., Ramos, J., Velázquez, E., and Villasante, S., 2015. El Metabolismo Económico Regional Español. Madrid: FUHEM.
- Puig Ventosa, I., Calaf Forn, M., Jofra Sora, M., and Sastre, S., 2015. Estado actual de la fiscalidad ambiental en España y perspectivas de futuro. In: F.J. Adame Martínez, ed. Fiscalidad ambiental en España: situación actual y perspectivas de futuro. 201–236.
- Sastre, S., Carpintero, O., and Lomas, P., 2015. Regional material flow accounting and environmental pressures: The Spanish case. Environmental science & technology, 49 (4), 2262–2269.
- Carpintero, O., Lomas, P., and Sastre, S., 2015. El metabolismo económico de las regiones españolas. El Ecologista, 87.
- Delgado, M., Carpintero, O., Lomas, P., and Sastre, S., 2014. Andalucía en la división territorial del trabajo dentro de la economía española. Una aproximación a la luz de su metabolismo socioeconómico. 1996-2010. Revista de Estudios Regionales, (100), 197.
- Tomlinson, B., Sastre, S., Blasco, D., and Guillén, J., 2011. The systems approach framework as a complementary methodology of adaptive management: A case study in the urban beaches of Barcelona. Ecology and Society, 16 (4).
- Sastre, S., Peguero, G., Lomas, P., and Di Donato, M., 2008. Crítica y perspectivas de los AGRO (bio) combustibles: el caso de Cataluña en el contexto español. FUHEM Ecosocial, 29–46.

ORAL PRESENTATIONS

- Voltaire, L. Loureiro, M., Nunes, P., Piñol, L., Sastre. S. Offshore windfarms and recreation demand for the Catalan Coast: a pooled revealed and stated trip behavior analysis. Oral presentation at the 2nd International Ocean Research Conference. November 2014. Barcelona, Spain.
- Sastre, S. Exploring the links between Industrial Ecology and Fisheries Science. Oral presentation at Ecosystem Approach to Fisheries in the Mediterranean and Black Seas meeting. April 2014. Barcelona, Spain.
- Canepa, A., Sastre, S., Piñol, L., Gonzalez, V. 2013. Thirty years of jellyfish blooms in Catalonia: Narratives and empirical evidences. Oral presentation at the Fourth International Jellyfish Bloom Symposium. July 2013. Hiroshima, Japan.
- Loureiro, M., Nunes, P., Piñol, L., Voltaire., Sastre, S. 2013. Analyzing beach recreationist's preferences for the reduction of jellyfish outbreaks: economic results from a stated-choice experiment in Catalonia, Spain. Oral presentation at the Fourth International Jellyfish Bloom Symposium. July 2013. Hiroshima, Japan.
- Sastre, S. 2013. Managing coastal ecosystem services in Catalonia: jellyfish blooms, wind-farms, and tourism. Oral presentation at the Symposium on Integrating New Advances in Mediterranean Oceanography and Marine Biology. November 2013. Barcelona, Spain.
- Gomez-Bagghetum E., Martín López, B., Lomas, P., Zorrilla, P., Sastre, S., Montes, C. 2006. Ecosystem services loss derived from land use homogeneization in Mediterranean multifunctional landscapes. Oral presentation at the Ninth Biennial Conference of Internacional Society of Ecological Economics, 'Ecological Sustainability & Human Well-Being. Delhi, India.