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Number of research or consultancy projects: 19
Total budget of projects: \$25,647,024

Each item lists the name of the project (underlined), role (**bolded**), supporting organizations (*italics*), and budget.

[PR19]. Equitable, Affordable & Resilient Nationwide Energy System Transition (EARNEST) Consortium. **Managing Director and Senior Researcher**. *Stanford University*. \$22,894,597. 2025-2027.

[PR18]. Modeling Tools for Energy Systems Analysis (MOTESA), Bass Connections Project. **Researcher**. *Duke University*. \$25,000. 2016-2017.

[PR17]. Risk analysis in the treatment of polychlorinated biphenyl by chlorination. **Researcher**. *Colombian Ministry for Environmental Affairs and Sustainable Development*. \$28,500. 2016.

[PR16]. Data-driven definition of Colombia's air quality policy roadmap. **Consultant**. *Korea Environment Corporation (KECO)*. \$4,050. 2015.

[PR15]. Environmental and economic assessment of implementing compressed natural gas as the primary fuel for Bogota's public transport system. **Principal Investigator (PI)**. *Colombian Association of Natural Gas (Naturgas), Universidad de los Andes*. \$32,500. 2014-2015.

[PR14]. Demonstration and assessment of battery-electric buses for mass transit in Colombia. **Consultant**. *Interamerican Development Bank (IDB)*. \$500,000. 2013-2014.

[PR13]. Revision and adjustment of risk assessment models analyzing climatological and external events. **Project Coordinator**. *Empresa Colombiana de Petroleos (Ecopetrol) S.A., Universidad de los Andes*. \$425,670. 2012-2013.

[PR12]. Developing a cost-benefit study for updating normative emission standards of mobile sources. **Main Researcher**. *Colombian Ministry for Environmental Affairs and Sustainable Development & World Bank, Universidad de los Andes*. \$18,357. 2012.

[PR11]. Infrastructure as the basis of production sectors: Analysis of critical points and vulnerabilities of the Colombian transport network affected by environmental disasters. **Researcher**. *Engineering School Research Center, Universidad de los Andes*. \$60,000. 2012.

[PR10]. Identification of small and mid-size enterprises (SME) with the highest potential to implement an energy efficiency program. **Principal Investigator (PI)**. *Corporación Ambiental Empresarial - Cámara de Comercio de Bogotá, Multivac Consultores*. \$4,000. 2011.

- [PR9]. Environmental and economic assessment of implementing compressed natural gas as the primary fuel for public transport vehicles. **Principal Investigator (PI).** *Colombian Association of Natural Gas (Naturgas).* Universidad de los Andes. \$10,000. 2011.
- [PR8]. Economic feasibility study for the construction of a transfer station on Magdalena, Colombia, applying return of investment techniques. **Main Consultant.** *Sociedad de Acueducto, Alcantarillado y Aseo de Barranquilla S.A. - Fundación Reto Colombia. Multivac Consultores.* \$7,500. 2010-2011.
- [PR7]. Design of the environmental plan for the Integrated Resources District of Zárate-Malibú-Veladero swamp zone. **Researcher.** *Corporación Autónoma Regional del Magdalena (CORPAMAG) - Fundación Reto Colombia. Multivac Consultores.* \$190,000. 2010-2011.
- [PR6]. Environmental impact assessment of Bogotá's Integrated System for Public Transport. **Researcher.** *Bogotá's Ministry of Finance, Inter-American Development Bank & Universidad de los Andes.* \$500,000. 2010.
- [PR5]. Risk management of infrastructure systems during natural events. **Researcher.** *Engineering Faculty Research Center, Universidad de los Andes.* \$25,000. 2010.
- [PR4]. Formulation of Bogotá's Decennial Atmospheric Decontamination Plan. **Researcher.** *Bogotá's Secretary for Environmental Affairs, Transmilenio S.A. & Universidad de los Andes.* \$325,000. 2008-2010.
- [PR3]. Development of Colombia's area sources classification guidelines and establishment of environmental control programs. **Researcher.** *Colombian Ministry for Environment, Housing, and Development, & Universidad de los Andes.* \$108,900. 2008-2009.
- [PR2]. Emissions assessment (isokinetic sampling) of fossil-fuel-fired stationary sources whose primary fuel is used oil. **Researcher.** *Colombian Ministry for Environment, Housing, and Development, & Universidad de los Andes.* \$37,950. 2008-2009.
- [PR1]. Definition of the technical elements used to formulate local standards to improve Bogotá's air quality. **Researcher.** *Bogotá's Secretary for Environmental Affairs & Universidad de los Andes.* \$450,000. 2007-2008.