**INFEWS/T1: “Reducing the Environmental Impacts of FEW Systems In and Around Cities, ”**

Funded by the National Science Foundation (Award 1739676)

At the University of California, Berkeley

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This project is creating an integrated FEWS framework cognizant of the policy and regulatory environment, develop models of FEWS processes, and program decision-support tools to identify the best ways to reduce the environmental impacts of FEWS in urban, suburban, and periurban areas. These models and tools identify spatially- and process-specific reductions in life-cycle energy and water use, economic costs, environmental impacts, and solutions for resource recovery while considering current and projected future conditions, tradeoffs, and associated uncertainties and sensitivities. The models can be used to characterize FEWS efficiencies, as well as identify weak points and prioritize future areas for investment.

**Professor Arpad Horvath’s Research Group at UC Berkeley**

https://ce.berkeley.edu/people/faculty/horvath/research

The research group focuses on life-cycle environmental and economic assessment of products, processes, and services, particularly answering important questions about civil infrastructure systems and the built environment: water and wastewater systems, food systems, transportation systems, biofuels, pavements, buildings, and construction materials.

**Energy, Civil Infrastructure and Climate Graduate Program at UC Berkeley**

https://ce.berkeley.edu/programs/ecic

The objective of the Energy, Civil Infrastructure and Climate (ECIC) Program is to educate a cadre of professionals who will be able to analyze from engineering, environmental, economic, and management perspectives complex problems such as energy efficiency of buildings, environmentally informed design of transportation systems, embodied energy of construction materials, electricity from renewable sources, and biofuels, and address such overarching societal problems as mitigation of greenhouse gas emissions and adaptation of infrastructure to a changing climate. ECIC also promotes research at the intersection of energy, infrastructure and climate science.