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Multiobjective programming for sizing and locating Biogas Plants: a model and an application in a region of Portugal

Sandra Silva , Luís Alçada-Almeida , Luís C. Dias

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**Highlights:**

- We develop a tri-objective mixed-integer linear programming model to locate undesirable facilities;
- We combine use of GIS and optimization technique.
- Our model was tested through its application to a real case study for locating biogas plants using manure of dairy farms.
- We determined the locations and capacities of biogas plants and assigned them to each dairy farm.
- We obtained efficient solutions through weighting and distance methods.

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