

# Waste Recycling Study, Qatar

EDESSA was retained by Keppel Seghers, acting on behalf of the Ministry of Municipal Affairs and Agriculture (MMAA), to conduct a feasibility study for marketing recyclable waste generated in the entire state of Qatar. The study was performed in order to investigate ways to maximize recycling of the various components of the waste stream. The main objective of the study was to:

- Identify the existing and expected quantities of recyclable wastes, based on the results of a Waste Characterization Survey conducted by EDESSA,
- Identify the local, regional and international market needs in terms of composition, quality and quantities,
- Identify the potential customers locally, regionally and internationally,
- Identify treatment technologies and operational aspects to maximize the recovery of the most desirable recyclable waste component,
- Prepare a cost-benefit analysis of the proposed recycling options.



The study included the market analysis related to the recycling of paper, plastics, aluminum, metals, glass, incineration ashes, discarded tires, and Construction & Demolition (C&D) wastes.

Among the waste constituents above, each waste category was analyzed in terms of the following:



- Potential recycling markets with respect to supply and demand requirements;
- Existing and planned recycling programs, locally and regionally;
- Existing and projected recyclable quantities;
- ‘Source Separation’ vs. ‘Sorting Plant Operation’;
- Means of waste processing and sorting efficiencies;
- End-uses for each recyclable waste category;
- Financial parameters and constraints;
- Local, regional, and international prices for the various recyclable waste categories;
- Recommended sorting and re-use technologies.

