

## Recycling plants benefit from proximity payment and access control

Each municipality has recycling plants where inhabitants can deposit bulky waste – often free of charge. Average handling costs for bulky waste amount to approximately 1000 SEK per ton.

Some people using the recycling plant are from areas outside the municipality. This leads to a disproportionate increase in waste. If the inhabitants pay for waste handling through a local charge then the inhabitants are left carrying the cost of handling other people's waste.



A way for a municipality to take control of and even reduce accelerating costs is to provide every property paying for waste handling with a contact-less card. This allows a limited number of accesses to the recycling plant per year. Companies can also be offered contact-less cards for access to recycling plants. Payment can be made in advance or invoiced.

TracTechnology supplies complete solutions for recycling plants. We install controlled entrance and exit gates at the plant, long-range RFID readers, information displays with weather and vandal-proof housing, and contact-less cards with printed text and logos. The web interface to the GateTrac payment and access control system is installed in a multi-user environment.

GateTrac handles all administration, access control and payments. Each RFID card is connected to a subscriber class of residential properties and companies. The number of remaining visits is checked in the database when the card is read. The number of visits for

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each class can for instance be set to a pre-defined number per annum and included in the regular fee for collection of household waste. Additional visits can be purchased for an extra fee. Opening hours can be set per day and per plant.

The municipality receives detailed statistics of the visits per hour, day, season and subscriber class to each recycling plant. The number of visits per year by a certain subscriber and the number of remaining visits can also be presented.

With GateTrac it is not only access control and payments that are handled more efficiently. The municipality also has the possibility to receive payments in advance. Statistics facilitate optimized opening hours and improved planning. This contributes to lower costs while at the same time offering better service.

Improved control decreases the number of deposit accesses by a typical household, thereby decreasing vehicle traffic which gives both positive environmental and economic effects in the form of lower emissions and road wear.

The reading distance of one meter means that a visitor only needs to hold up the card to the side window of his car when passing the reader to raise the boom.

“We have noticed a substantial queue reduction at the entrance” says Jesper Feddersen, Chief Recycling Officer of Gnesta Municipality. Now we can better plan the manning at the plant. The inhabitants also appreciate the increased fairness of the new system.

Another plausible effect is that the system deters those inhabitants that avoid payment the waste handling charge since only those paying will have a valid access card to the municipal recycling plants.

The GateTrac system functionality is also suitable for car parking payments and entrance control at campsites and marinas.

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*TracTechnology is an expanding company that creates solutions with RFID technology. We develop and sell equipment and systems for different applications – access, security and payment, industrial applications and for tracking within the food industry. The company is Scandinavian distributor for GIGA-TMS Inc., one of the world's largest manufacturers of equipment for proximity technology.*