



TechBrief

Outsourced Service Agreements

Complete wastewater treatment systems are designed, built, owned and operated (DBOO) by Dynatec at facilities that generate wastewater. Compensation is in the form of monthly payments for the amount of water treated, purified and discharged to sewer, or reused. The per-gallon charge fixes the total cost for processing the waste stream, including the cost for disposal of the residual waste. Dynatec owns, operates and maintains the equipment.



► Introduction

Dynatec supplies complete outsourced wastewater treatment systems on a contract basis. Payment is made in "cents-per-gallon," based upon the throughput of the system. Operation of the system and waste disposal is the responsibility of Dynatec. Each contract is individually negotiated so terms such as agreement length, purchase options, and initial payment size will vary.

► Benefits

- No risk.
- No capital employed in non-performing assets.
- No need to operate or maintain equipment.
- Assurance of a well-run and well-operated system.
- Significant cost savings.
- If waste is presently being hauled to a commercial waste treatment facility, this program will help to considerably reduce costs.
- Costs are fixed for the term of the contract.
- Lower environmental liability

► Experience

Dynatec has been engaged in supplying complete systems for industrial wastewater treatment since 1979. We have installed over 400 systems during that period of time.

Dynatec began providing systems in 1993. The scope of work remains as if the system were sold like a normal job. A typical example is a system installed by Dynatec at a major bearing manufacturer's plant. The system processes oily wastewater from machining and grinding operations, wash water, tumbling waste, and boiler blowdown. The system purifies water for sewer discharge continuously and automatically. It removes metals, oil, grease and phenols in order to make the water acceptable for discharge to the sewer. The concentrate of contaminants is disposed through a National waste disposal company. The bearing manufacturer disposed of their oily wastewater until the

Dynatec system was started. Overall costs were initially reduced 61%, and have increased as disposal charges have risen.

► How to Get Started

A outsourced contract project starts the same way all projects start. First we must obtain information that helps characterize the waste stream and the treatment requirements. Treatability work is to be completed, and a system design and proposal can be developed from this information. At that time, the terms of the contract can be negotiated. Pilot testing on-site is often implemented to confirm the project requirements.

► Operation

The system installed will be a completely automatic system that can be run with minimal operator attention. A Dynatec technician will attend to the system on a daily basis to check for proper functioning, the need for service or maintenance, and water quality. The treated water is checked for compliance with discharge standards. Specific tests are completed for each parameter that must be monitored for compliance with sewer discharge. In this way, we are assured that the treated water always complies with requirements.

The concentrated waste is separated from the water and disposed of through an approved and licensed disposal firm. The cost for the disposal of the residual waste may be included as part of the charge for the contract service. The attention, care, and maintenance required by the system is handled by the Dynatec operator.

► Conclusion

Design-Building-Own-Operate (DBOO) offers fixed treatment and disposal costs for the period of the contract, allowing clients to accurately predict operating costs. Options can be negotiated that allow for purchase of the system during the terms of the contract. Where capital or labor is restricted, contract service agreements offer a reliable means of both reducing and fixing costs.

