

## *Energy/Resource Recovery Facility*

### 112-01-Energy/Resource Recovery Facility

Fund/Agency: 112/45	Energy Resource Recovery Facility	
Personnel Services	\$463,610	<div style="text-align: center;"> <p><b>CAPS Percentage of Solid Waste Funds</b></p> <p>66.4%</p> <p>33.6%</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <span style="color: blue;">■</span> Energy/Resource Recovery Facility  <span style="color: yellow;">■</span> All Other Solid Waste CAPS                 </div> </div>
Operating Expenses	\$33,406,171	
Recovered Costs	\$0	
Capital Equipment	\$26,000	
<b>Total CAPS Cost:</b>	<b>\$33,895,781</b>	
Federal Revenue	\$0	
State Revenue	\$0	
User Fee Revenue	\$30,057,100	
Other Revenue	\$779,369	
<b>Total Revenue:</b>	<b>\$30,836,469</b>	
<b>Net CAPS Cost:</b>	<b>\$3,059,312</b>	
Positions/SYE involved in the delivery of this CAPS	9/9	

#### ► CAPS Summary

Fund 112 manages the long term contract for the I-95 Energy/Resource Recovery Facility (E/RRF), owned and operated by Covanta Fairfax, Inc. (CFI), which burns municipal solid waste to produce approximately 72 megawatts of electricity, which is sold to Virginia Power. Under the terms of the Service Agreement, the County is required to deliver at least 930,750 tons of waste per year, for which it pays a disposal fee to CFI. The County charges a disposal fee to all users of the E/RRF and subsequently pays the contractual disposal fee to CFI from these revenues. Revenues from the sale of electricity are used to offset the cost of the disposal fee paid to CFI.

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## Key Accomplishments

- In FY 1999, refinanced the bonds used to fund the construction of the E/RRF through an innovative option sale agreement, resulting in annual savings to the County of over \$4 million.
- Renegotiated the Power Purchase agreement between Virginia Power and Covanta, resulting in an increase in the County's share of electric power revenues from \$16.5 million in FY 1997 to \$18.2 million in FY 2000, serving to lower overall disposal costs.
- Continued to process waste tires and participate in the Virginia Waste Tire End User Program, generating additional net revenues for the agency. The shredded tires have been used as a protective layer in the next cell of the ash landfill, lowering construction costs and providing beneficial use for waste tires.

## FY 2002 Initiatives

- Initiated the effort to obtain a direct discharge permit for E/RRF cooling tower water, which will save the cost of additional sewer capacity, free capacity at the Noman M. Cole pollution control plant, reduce existing sanitary sewer pass through costs, and have no adverse effect on the environment.
- Continue to monitor the flow of municipal solid waste into the E/RRF and balance County capacity needs with contract deliveries.

Fees are charged based on the type of waste material entering the E/RRF. In FY 2002, the disposal rate is \$28/ton and total projected refuse disposal revenue is \$30,272,100. Under the terms of the service agreement, the County is obligated to ensure sufficient operating revenues to meet expenses and pay the debt service associated with the 20 year Economic Development Authority bond issue.

## ► Method of Service Provision

Staff maintains oversight of facility operations by reviewing monthly Facility Operations Reports, reviewing and approving monthly invoices for waste disposal services and reviewing air monitoring, and stack test data with regard to State permit and County Service Agreement requirements. Staff also maintain and operate the truck weigh scales and billing system, and perform other related duties as necessary.

## Hours of Operation:

### Facility Receiving Hours

Monday thru Friday 5:00 a.m. to 7:00 p.m.  
Saturday 5:00 a.m. to 4:00 p.m.

### Administrative

Monday thru Friday 8:00a.m. to 4:30 p.m.

Fairfax County is the primary contributing participant to the E/RRF. The E/RRF also receives refuse tonnage from spot markets, which includes some District of Columbia waste, and some Prince William County waste through an agreement with Fairfax County. The additional waste ensures meeting the guaranteed annual tonnage (GAT) requirement under the conditions of the service contract.

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### ► Performance/Workload Related Data

Title	FY 1998 Actual	FY 1999 Actual	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate
<b>Output:</b>					
Tons municipal solid waste processed	973,556	984,573	1,055,343	1,102,200	1,089,200
Energy generated (kWh (000))	606,199	644,707	676,978	680,000	680,000
<b>Efficiency:</b>					
Tons above GAT	42,806	53,823	124,593	171,450	158,450
Energy generated per ton	623	655	641	617	624
<b>Service Quality:</b>					
Percent of GAT delivered	104.60%	105.78%	113.39%	188.42%	117.02%
Energy Sold (kWh (000))	525,322	557,957	590,059	595,000	595,000
<b>Outcome:</b>					
Met GAT requirement	Yes	Yes	Yes	Yes	Yes
Percent of energy sold (internal use approx. 12.5%)	86.66%	86.54%	87.16%	87.50%	87.50%

### ► User Fee Information

Subsubject Code	Fee Title	FY 2002 ABP Fee Total
0612	Charges - Refuse Disposal - Revenue	\$30,057,100
<b>Current Fee</b>		<b>Maximum Allowable Fee Amount</b>
\$28/ton		Competitive Market
<b>Purpose of Fee:</b> To offset the cost of disposal at the E/RRF.		
Levy Authority	Requirements to Change the Fee	Year Fee Was Last Adjusted
County of Fairfax	Approval of Director of Public Works and Environmental Services	1999
<b>Other Remarks:</b> Annual review of fee. Must be set at competitive market rate to ensure Guaranteed Annual Tonnage to the E/RRF under contractual requirements of Service Agreement.		