

Horizontal support to increase capacity of Greek authorities in assessing waste management projects - Review of 3 PPP projects (Epirus, Western Macedonia, and Serres)



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1. Recovery well below CE targets

Facility	Percentage recovered in MBT facility		Minimum required by contract (% of recyclables)	Percentage recovered including blue bin (% of total waste)
	% of total waste	% of recyclables		
Epirus	14.1	>35	35	17
Kozani	15.6	39.4	35	21.2
Serres	13.6	36.7 (2019) 38.8 (2020)	30	Not Available



- Contractual requirements met, but well below EC circular economy targets
- Lack of market for plastic film
- Income from sale of recyclables for operators
- Production of biogas in Epirus

2. Landfill disposal well above CE targets

Facility	Percentage of waste disposed of in landfill (%)	Maximum % required by contract
Epirus	37.1	39
Kozani	34.5	35.96
Serres	37.0	39.5



- **Contractual requirement met, but disposal well above EC circular economy target**
- **50% if CLO is land disposed!**
- **Some municipalities send their waste directly to landfills without any treatment**
- **MBT operators: Necessity of landfill tax as Incentive for separate collection**

3. Gate Fees enough to cover O&M, but not investment

Facility	Unit O&M (€/t)	Gate fee (€/t)
Epirus	39.05	MBT plant: 57.68 with a guaranteed minimum of 80,000 t/y Estimated total (MBT plant, TS, and landfill): 92
Kozani	85.00	111 (without VAT), but municipalities pay only 69 (i.e., 62%) –difference of 38% is subsidised by Greece's Public Investment Programme
Serres	57.14	64.73 (<45,000 t/y) and 39.31 (> 45,000 t/y) 30-50 for landfill of residuals from private sorters (e.g., private MRF)

- **Kozani: All inclusive fee & Costs to repay investment**
- **Gate fees enough to cover the O&M costs, but not the investment;**
- **No compliance with the Polluter Pays Principle**
- **Direct impact of EC grant on gate fee**
- **Governance of FODSAs and regular monitoring contributes to facility's efficiency**

Next key step: Separate Collection

- Well operated facilities, fairly typical in terms of performance and costs (investment and O&M)
- A clear improvement in waste management in Greece
- Require modifications, in particular to meet the 10% maximum landfill disposal target (in 2035)
- Separate Collection of dry recyclables and organic waste necessary to meet the 65% recycling target (in 2035), (e.g., through door-to-door)
- Separate Collection is expensive and also requires full public support which can be obtained after numerous public awareness campaigns.



Thank you for your attention!

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Review of 3 PPP projects



Questions & Discussion
Thank you / Ευχαριστώ