



CASE STUDY: COVERED WINDROW COMPOSTING

Case Study		COVERED WINDROW COMPOSTING	
Location	Central Greece		
Target	Capacity increase/product enhancement		
Composter Capacity	100 tn/batch (conventional)		
Composting material	Various organic waste		
Details	Covered windrow with heat supply and mixing when required		



Parameter	Units	BEFORE YDRO PRODUCTS Application	AFTER YDRO PRODUCTS Application
Batch duration	days	45 – 60	15 – 20
Operational Temperature	°C	50 – 60 (with external heating)	>70 (without external heating)
Maturity	%	<80%	>80%
pH	-	>8	6 – 8 (stabilized)
C:N	-	Unstable	10:1 – 20:1 (stabilized)
N-P-K	-	Unstable	3 – 4 – 4 (typical value)

Remarks

- Tripled production by a factor of 3 due to reduction of the batch duration to 15 – 20 days
- Increased composting efficiency
- Increased operating temperature by at least 15°C reducing induced heating cost
- The temperature was maintained at high levels even after the composting process was completed (no drying was required)
- Improved N-P-K values and C:N ratio despite the very high ammonia content
- Product odour reduction / elimination
- Improved compost quality (maturity, efficiency etc.)