Investing in the circular economy: Challenges and opportunities

10th International Conference on Sustainable Solid Waste Management
Business Sectors

**Solid Waste**
MSW / Preselected Waste Treatment Plants
Sanitary Landfills / Land restoration
Treatment - Utilization of Biological Sludge
Annual Capacity: 490,000 t

**Water Cycle**
Wastewater Treatment Plants
Water Networks (sewage, irrigation, potable)
Telemetry – Remote Control of Water Networks
Daily Capacity: 126,000 m³

**Energy**
Landfill Biogas Energy Utilization
AD Biogas Energy Utilization
Energy Upgrade of Treatment Plants
El. Power: 3 MW
Amari Waste Treatment Plant
<table>
<thead>
<tr>
<th>Περ. Ενότητα</th>
<th>Δήμος</th>
<th>Πληθυσμός</th>
</tr>
</thead>
<tbody>
<tr>
<td>Αγίου Βασιλείου</td>
<td>7,400</td>
<td></td>
</tr>
<tr>
<td>Αμαρίου</td>
<td>5,900</td>
<td></td>
</tr>
<tr>
<td>Ανωγείων</td>
<td>2,400</td>
<td></td>
</tr>
<tr>
<td>Μυλοποτάμου</td>
<td>14,400</td>
<td></td>
</tr>
<tr>
<td>Ρεθύμνης</td>
<td>55,500</td>
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</tr>
</tbody>
</table>
**Process flow**

**INPUT**
- **MSW** 35,700 t/y
- **Preselected Organics** 7,400 t/y

**PROCESS**
- **Mechanical Treatment**
- **Biological Treatment**
  - MSW organic fraction
  - Preselected Organics

**OUTPUT**
- **Recyclables**
  - Paper/Cardboard
  - Plastics
  - Metals
  - Glass
- **CLO**
- **Compost**
- **Electricity**

**MSW organic fraction**

**Biogas Energy Utilisation**

**Biological Treatment**
Mechanical Treatment
Circular Economy
Circular Economy - Design and Production
Circular Economy – Distribution and Consumption
Circular Economy – Waste Management
Circular Economy - Waste Management

- Separate Collection
- Clean Streams of Products
- Recycling
- MBT to RRF
- WtE

Design Production Consumption

Mixed Waste

Materials and Energy
10th International Conference on Sustainable Solid Waste Management

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https://www.youtube.com/watch?v=agZd9evMEpo&t=16s