Organic Resource Recovery

*Smart solutions on a budget!*

By: Marc Aoun

Compost Baladi
Who we are

Promote the sound management of organic waste using appropriate technologies that are tailored to local economic, social and environmental conditions.
How does it differ from other waste?

Risks!

**Odor** from extended storage

**Pest** attraction from odor

**Health & Safety** Factor from Pest

Needs *frequent & specialized collection* to prevent issues
It all started as a blog and some boxes
User Feedback

Earthcube Composting System

Compost Baladi
Earthcube system
Earthcube system
Household composting
Creating Value

STRATEGIC PLAN

“Black Gold” program

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Compost Baladi SAL Strategic Plan

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Who we deal with

- Households / Residential establishments
- Academic and Public Institutions
- Restaurants & Malls
- Food processors and Farmers
- Municipalities
Composting education
لكل البلديات وإتحاداتها

يُلي أبدت رغبة بإدارة نفاياتها الصلبة ردًا على تعميم وزارة البيئة رقم 1/1

شركتنا بتقدم

مجانًاً

وحتى تاريخ 30 نيسان، 2018

دراسة علمية

للفرز من المصدر

الفرز الثانوي، التدوير والتسويق

الإستعلام: 153 150 70
Collection and Material Recovery
Collection and Material Recovery
Compost Baladi Approach

Pros:
- Very low investment
- Only need bobcat
- No infrastructure
- Minor odor issues
- Low operational cost

Cons:
- Not an option for more than 3 tons per day
- Major leachate issues in winter if no cover
- Large footprint
- Require large amounts of carbon material (woodchips)
Compost Baladi Approach

Pros:
- Medium initial investment
- Reused material
- Modular, pre-assembled
- Temporary structure, no concrete
- Medium footprint

- Easy leachate management
- Odor control
- Low maintenance
- Does not require cover

Cons:
- Economical up to 10 tons per day
- Medium operational cost (electric demand for blowers)
## Compost Baladi

### Initial Investment

<table>
<thead>
<tr>
<th>Item</th>
<th>Price (USD)</th>
<th>Included</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport</td>
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<tr>
<td>Sorting at Source</td>
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<td>Not Included</td>
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<tr>
<td>Secondary Sorting</td>
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<td></td>
</tr>
<tr>
<td>Composting</td>
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<tr>
<td>Legal Documents</td>
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<tr>
<td>Consultation</td>
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<tr>
<td><strong>Sub-Total</strong></td>
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### Operational Cost

<table>
<thead>
<tr>
<th>Item</th>
<th>Price (USD)</th>
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<tbody>
<tr>
<td>Collection</td>
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<tr>
<td>Labor</td>
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<td>Power consumption</td>
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<tr>
<td>Maintenance materials</td>
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<tr>
<td>Consultation</td>
<td>1,900</td>
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<tr>
<td><strong>Sub total</strong></td>
<td><strong>185,900</strong></td>
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</tbody>
</table>

**Operational cost per ton**: 46 USD
WHAT IF NO LAND AVAILABLE
How it works

- Volume reduction
- Odor control
- Less transport
- Cost Saving
- Sustainable
What is even better than composting
What if the waste is rotten or manure?
But what about wood waste
What about wastewater