Eco-industrial park initiatives in Vietnam

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• By June 2017, about 200/325 industrial parks (IPs) have been put into operation, generating 40% of the total revenue of the industry sector annually but posing certain burdens to the natural environment.

• 15% IPs in Vietnam operate without proper waste water treatment plants installed, causing water and air pollution, posing threat to health and living condition of the surrounding communities.

• To improve the situation, in 2014, the Government start the project “Implementation of Eco – industrial park (EIP) initiative for sustainable industrial zones in Vietnam” at 4 pilot IPs (at 3 different provinces) with 3 level interventions (company, industrial zone and policy).
**Eco-industrial park initiatives at company level**

**Activities:** Resource Efficiency and Cleaner Product Audit and Capacity building (8 months each company)

**Results:**

<table>
<thead>
<tr>
<th>City/Province</th>
<th>Ninh Binh</th>
<th>Da Nang</th>
<th>Can Tho</th>
<th>RECP Solutions Recommended</th>
<th>Investment</th>
<th>Energy saved (converted into $)</th>
<th>CO2 Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPs</td>
<td>Khanh Phu IP and Gian Khau IP</td>
<td>Hoa Khanh IP</td>
<td>Tra Noc 1 &amp; IP</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Operating Enterprises</td>
<td>43</td>
<td>132</td>
<td>72</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st Batch (Jan – August ’16)</td>
<td>7</td>
<td>6</td>
<td>10</td>
<td>402</td>
<td>Bi. VND 144.44</td>
<td>Bi.VND 31.86 annually</td>
<td>9.618 ton</td>
</tr>
<tr>
<td>2nd Batch Sep ’16 – June ’17</td>
<td>N/A</td>
<td>9</td>
<td>9</td>
<td>290</td>
<td>Bi.VND 7.172</td>
<td>Bi.VND 15.382 annually</td>
<td>2.899 ton</td>
</tr>
<tr>
<td>3rd Batch (August ’17 – April 18’)</td>
<td>9</td>
<td>8</td>
<td>10</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Eco-industrial park initiatives at industrial zone level

Activities:
- Centralized Waste Water treatment plants Performance Assessment (in 3 pilots IPs)
- Solid waste inventory (in 3 pilots IPs)
- Best IP case studies (best 15 IPs in Vietnam)
- Industrial Symbiosis (IS) Study and implementation in Hoa Khanh IP

Results:
- Central Waste Water treatment plants are assessed and provide insight recommendations for performance improvement.
- Solid waste inventory is conducted to analyze the possibility of waste synergy / recycle and reuse. The findings serve as good implication for industrial symbiosis in the coming time.
- Good management cases, most functional centralized services of 15 studied IPs as practical example for other IPs in Vietnam are learnt
- Study the IS possibility of 18 selected company in Hoa Khanh IP and recommend 6 IS options. After 3 round consultations, the most feasible IS (waste water synergy) is selected for future implementation
Eco-industrial park initiatives at policy/institutional level

Activities:
- Providing inputs for the institutionalization of EIP concept
- Development of EIP Guideline
- Capacity Building
- Policy advocacy

Results:
- The new decree on the management of IPs and Economic zones is now awaiting for approval; the concept of EIP is first-ever presented and 3 chapters are specialized on EIP contents
- The EIP Guideline (Environmental Aspect) is developed. All contents will be adopted in the form of legal document by the Government
- ~ 20 EIP related topic trainings and info workshops (~1,000 participants)
- International Expert Group Meeting (Sep ’16)
Thank you very much for your attention

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For more detail, please visit
www.khucongnghiepsinhthai.vn (for Vietnamese) and www.eipvn.org (for English)