WE WORKED FROM THE GLOBAL TO THE LOCAL
SA-LED analyzed and integrated global frameworks developed by the USA Environmental Protection Agency, the World Resources Institute, and the UN International Climate Action Transparency framework (ICAT), and tracking frameworks for the Sustainable Development Goals that focus on:
• Gender
• Youth
• Job creation
• Environment impact
• GHG mitigation

CONTINUOUS FRAMEWORK FOR SOUTH AFRICA
SA-LED developed the local framework to ensure alignment of international frameworks with USAID SA-LED’s local mandate, and the contextual development realities of the country. As a result, we added redress as an additional criterion. Assessments used the terms and definitions used by ICAT, as follows:

APPLICATION – PROJECTS ANALYZED
Karoo Catch Fish Farm
Karoo Catch expanded to produce 720 more tons of fish per year. To reduce environmental impact, it installed solar panels, reduced water use and wastewater, and plans to install a biogas system. The expanded operations will employ 114 additional local workers, primarily women and young workers.

Biogas Digesters at Schools
At least 65 schools have installed biogas digesters, to convert food and yard waste into biogas and fertilizer for use on-site. The biogas replaces fossil-derived liquid petroleum gas. The digesters avoid GHG and waste, with the added benefits of local job creation, agricultural resources, cost savings, and other benefits.

Solar PV on Municipal Buildings
The Ekurhuleni Metropolitan Municipality (EMM) has pursued opportunities to reduce GHG emissions. SA-LED helped EMM develop an RFP and analyze requirements, obstacles, and monetary projections. SA-LED’s help ensured the RFP was comprehensive and that the winning bid would achieve EMM’s goals.

Abattoir Waste
The second MBA done for the Garden Route District Municipality looked at Abattoir waste. A solution to manage the potential negative impacts of abattoir waste is anaerobic digestion, which generates biogas that can be used to produce heat and/or electricity, as well as a by-product that can be used as fertilizer.

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OUTCOMES OF PROJECT ANALYSIS
Initial Comparison of Impacts across Assessments

<table>
<thead>
<tr>
<th>Karoo Catch Farm</th>
<th>Biogas at Schools</th>
<th>Solar PV on Municipal</th>
<th>Angora Goat Farming</th>
<th>Garden Waste Compost</th>
<th>Abattoir Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jobs</td>
<td>114 new jobs</td>
<td>1 job per school</td>
<td>16 New jobs</td>
<td>134 permanent new jobs</td>
<td></td>
</tr>
<tr>
<td>Energy Consumption &amp; GHG Emissions</td>
<td>75% reduction in GHG emissions.</td>
<td>170 tones of CO2e avoided per year.</td>
<td>1,800 tones of CO2e avoided per year.</td>
<td>24% reduction in GHG emissions.</td>
<td>11,300 tones of CO2e avoided per year.</td>
</tr>
<tr>
<td>Other Environmental Impacts</td>
<td>4,503 increase in water use per month.</td>
<td>6 Tones in organic waste produced per year.</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Cost Savings</td>
<td>Not applicable</td>
<td>R1,100 per year per school.</td>
<td>R750,000 average annual saving for the municipality.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solid waste impacts</td>
<td>Less abattoir waste per kilogram of protein produced.</td>
<td>6 Tones of organic waste per year avoided.</td>
<td>6 Tones of abattoir waste diverted annually.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ILLUSTRATIVE EXAMPLES OF THESE KEY ASSESSMENT CONCEPTS:

- **Gender**
- **Youth**
- **Jobs**
- **Increased in direct jobs**
- **Increased in indirect jobs**
- **Increased skills/training**
- **Improved soil quality**
- **Water use and leachate pollution avoided**
- **Avoided water use and leachate pollution by replacing chemical fertilizers**
- **Additional 10 years in landfill lifespan.**
- **Additional 2 years in landfill lifespan.**
- **1 Job per school.**
- **16 New jobs.**
- **78 new jobs for women.**

DEVELOPED THE LOCAL QUESTIONNAIRE
Selected projects for MBA analysis through nomination process. Once selected SA-LED interviewed the project champions and other relevant stakeholders.

SA-LED developed an interview schedule that focused on collecting the correct data to assess the multiple benefits associated with the specific project.