How does the emission output of a **Marathon ecopower™ microCHP** compare to those of an average coal fired power plant?

### How cogeneration works:

**Emissions (Kg/MWH)**

<table>
<thead>
<tr>
<th></th>
<th>Coal Fired Power Plant*</th>
<th>ecopower™ microCHP</th>
<th>Percent Reduction**</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO₂</td>
<td>956</td>
<td>327</td>
<td>-65%</td>
</tr>
<tr>
<td>SO₂</td>
<td>3.79</td>
<td>Trace</td>
<td>-100%</td>
</tr>
<tr>
<td>NOₓ</td>
<td>1.66</td>
<td>0.03</td>
<td>-98.4%</td>
</tr>
</tbody>
</table>

*Based on delivered electricity.  
**Total ecopower™ output (heat and electricity).

One ecopower™ will reduce the emission of carbon dioxide (CO₂) in the atmosphere by 24 tons/year.

### Basics of Micro CHP:

The concept of Combined Heat and Power is very basic. A liquid cooled internal combustion engine generates heat which is pumped through a heat exchanger and subsequently used for domestic use.

In addition, a generator is driven by the engine and provides power for on-site electrical consumption.

More than 90% of the energy as heat and electricity is utilized, with CO₂ emissions 65% below a coal fired power plant.

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