GreenPower™ Trap Water-Muffler System:

Rim’s U.S. Patent Numbers: 1) 7,530,349; 2) 6,892,531 & 3) 5,085,049
(GreenPower™ trademark registered in the USA)

Features of GreenPower™ NOx-PM Reduction & Fuel Saving (Award-Winning).
- Uses a low-cost catalyst in engine oil and fuel (High-cost PMG catalysts not used).
- Adds just Water into GreenPower™ “Water-Muffler”. (Urea-SCR not used)
- Recovers Waste heat from hot Mufflers. & Increases Combustion Efficiency further with H2 reformed from steam (H2O), while reducing NOx formation.
GreenPower™ “Water-Muffler” or Hydrated-EGR system has 2 substantial benefits – NOx reduction and Enhancing fuel efficiency. DPF is catalyzed by Fuel Borne Catalyst, generated by the patented Oil Borne Catalyst (OBC) system.

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<th>MECHANISM</th>
<th>PROPOSED RESULTS</th>
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| **1** NOx-PM REDUCTION | • NOx reduction by 50-80%  
• PM reduction by 85%+  
• Add plain water (not Urea)  
• Low cost catalyst (not PMG)  
• Extend Engine-life  
• Reduce waste oil disposal |
| **2** FUEL EFFICIENCY + + + | • 10 -15% increase in fuel efficiency by water addition  
• The Port of Los Angeles will support to demonstrate on a huge diesel engine for Vessel. |

1) By Thermal effect. Muffler-Waste heat makes steam.
2) By Chemical effect of steam on to H2, which is generated by a steam-fuel reforming reaction, “endothermic reaction.”