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# High-Density Power Block – 12 Cummins VTA28-G5 Engines

**Engine Size**  
VTA28-G5 – 12 units

**Sector**  
Industrial Power / Backup Generation

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## Project Overview

This multi-engine installation demanded a compact emissions control solution that could fit within strict spatial constraints, while meeting Tier 4 Final NOx reduction standards. Additional requirements included spark arrestor integration and live system performance monitoring for predictive maintenance.

## Solution Provided

E.I. Williams/IMS are known in the industry for their engineered compact SCR + silencer solution using square catalytic elements within a cubic enclosure—enabling full functionality in space-restricted areas. In tight spaces, similar to this example, one 1,350-liter DEF tank was specified per unit, and all systems were equipped with real-time monitoring and fault diagnostics for proactive maintenance.

## System Specification

Engines	Cummins VTA28-G5
Quantity	12 units
NOx Reduction Requirement	90%
DEF Tank Capacity	1,350 L (per unit, client-specified)
Monitoring	Live performance + predictive diagnostics
Design Constraints	Limited space, cubic enclosure
Special Components	Combined SCR + Spark Arrestor + Silencer unit
Catalyst Configuration	Square elements in custom layout

## Visual / Installation Photos



## Results & Impact

NOx Reduction Achieved	90%
Compliance	EPA Tier 4 Final
Efficiency	All 12 units met space and emission targets
Safety	Spark arrestor integrated with silencer
Visibility	Predictive diagnostics with live system feedback

If you have any questions, please reach out to us at [info@eiwilliams.com](mailto:info@eiwilliams.com) or **(905) 428-0950**