



Environmental Performance ASSESSMENT

• Establishing Baseline

Novinda's far-reaching source emissions expertise and operational experience provide plant operators with an essential baseline measurement, customized for the particular operating system, and a detailed strategy for compliance with state and federal emissions control regulations. Armed with accurate test data, Novinda's team of experts offers both a comprehensive assessment and the optimal solutions for vital in-house information, proposed process design/expansion and/or air quality compliance.

Reliable Analysis Processes:

Wet and Dry Methods, Sorbent Injection Testing, SCR Tuning Services, Multi-pollutant Control Trials

Chemicals Analyzed:

HCl, HF, Hg, VOCs, SO₃, SO₂, Dioxins/furans, SVOC and Speciated VOC

• State of the Art Equipment

Single and Multi-Pollutant Testing Enables Compliance

Subject to a myriad of stringent regulations for an array of chemicals, plant operators depend on reliable emission testing to secure vital permits, making accurate baseline testing essential. Novinda's proven leadership in criteria pollutant and hazardous air pollutant measurement, built on nearly 5 decades of emission testing experience, coupled with advanced equipment and engineering expertise ensures fast and reliable results.

• Case Studies:

Activated Carbon Injection System

Connecticut

Challenge: Novinda professionals conducted startup performance testing of an activated carbon injection (ACI) system/pulse jet fabric filter (PJFF) for a 400 MW coal-fired electric power plant for removal of Hg from flue gas.

Approach: Testing consisted of concurrent Ontario Hydro Method (ASTM D6784-02) sample trains at the economizer outlet and stack for demonstration of total system vapor phase Hg removal (>90%) or emission limit at the stack 0.6 lb/TBtu. All OHM analytical testing was conducted on-site with results available within 24 hours.

Result: System performance was successfully demonstrated, addressed state mercury & PM emission limits and system fully commissioned.

Selective Catalytic Reduction Tuning Services

Kansas

Challenge: Novinda professionals performed startup tuning of a new SCR for a 620 MW PRB coal-fired electric generating unit.

Approach: Novinda engineers developed the key algorithm for adjusting ammonia injection grid (AIG) to produce consistent target NO_x reduction efficiencies across the entire catalyst discharge area while minimizing NH₃ slip from the unit.

Result: An optimized AIG with minimized NH₃ slip.