



ERTAC EGU Growth Committee

Doris McLeod
Air Quality Planner-VDEQ
804-698-4197
doris.mcleod@deq.virginia.gov

ERTAC EGU Growth

- Eastern Regional Technical Advisory Committee
- Goal: Develop Methodology to Create EGU FY Emission Inventories
- ERTAC EGU Growth Committee Co-chairs:
 - Laura Mae Crowder, WV DEP
 - Bob Lopez, WI DE
 - Danny Wong, NJ DEP
- Four Subcommittees and Subcommittee Leads:
 - **Implementation**/Mark Janssen, LADCO
 - **Growth**/Bob Lopez, WI & Laura Mae Crowder, WV
 - **Data Tracking**/Wendy Jacobs, CT:
 - **Renewables & Conservation Programs**/Danny Wong, NJ & Laura Boothe, NC:

How does the algorithm work?

- Starting Point: BY CAMD activity data
- States provide known new units, controls, retirements, fuel switches, etc
- EIA (annual) and NERC (peak) growth rates
- Program projects growth by region
- Adjusts growth for new units, fuel switches, retirements, etc
- Checks system integrity and policy caps
- If caps are not met, request more data from states.

Progress So Far

- Development:
 - Preprocessor & Processor running on Linux and Windows platforms (GA, VA, MARAMA, IN, NJ, OTC)
 - Working out bugs

- Estimating Growth in Generation:
 - Growth rates and regions defined
 - Updating with current AEO; working to update growth rates table and crosswalk

- Input File Development:
 - 2007 unit file and known future controls file reviewed by states
 - Further state input at future date

What You Can Expect....

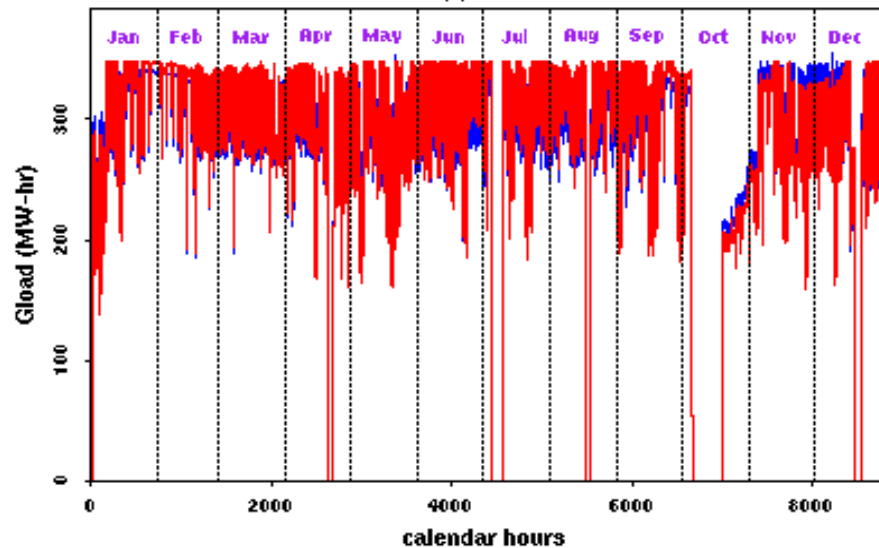
- Provides growth estimates for CAMD reporting units using coal, oil, natural gas
- Future year hourly temporal profiles for NO_x, SO₂, activity data, for new and existing units
- Free-ware / low cost
- Flexibility-inputs can be adjusted to address regional issues

Don't Get Your Hopes Up About...

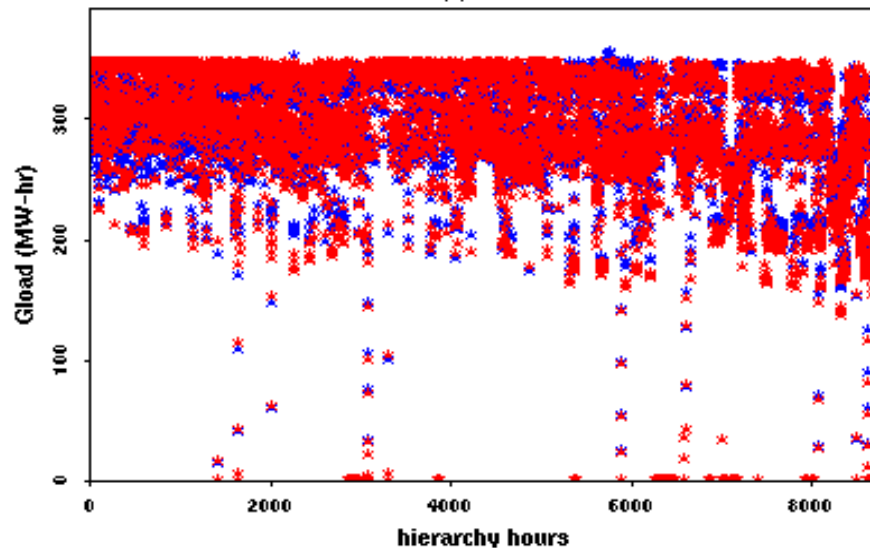
- Post processing needed for use in SMOKE, SIP inventories, and policy determinations
- Ease of Use
- Pre-pre-processing may be needed for units with significant issues in the base year data (partial reporters, substituted data, etc)
- Detailed, organized, step-by-step documentation

unit level activities at 3797-5 (page 1)

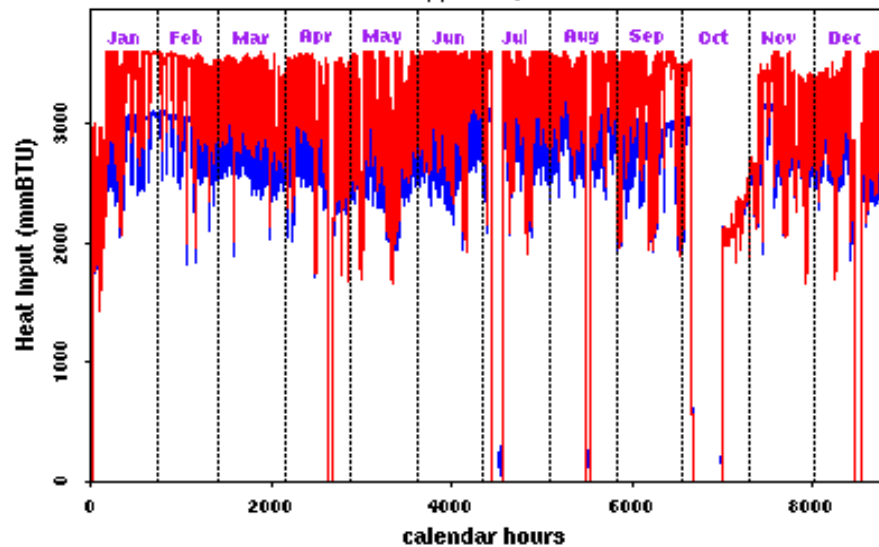
(a) Gload



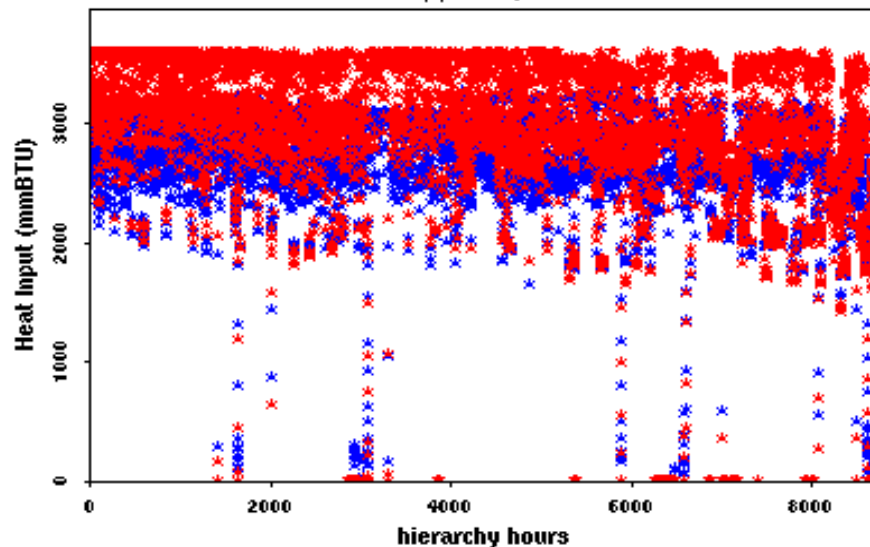
(b) Gload



(c) Heat Input



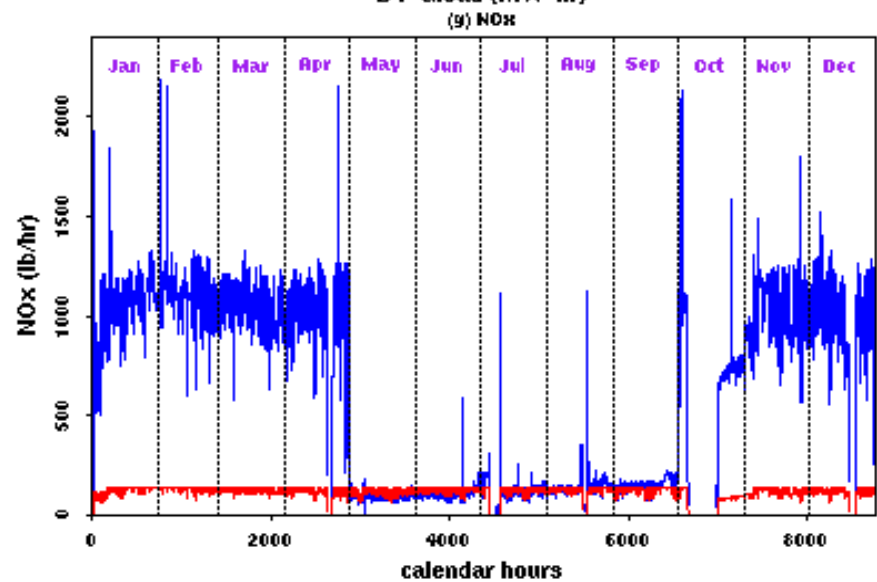
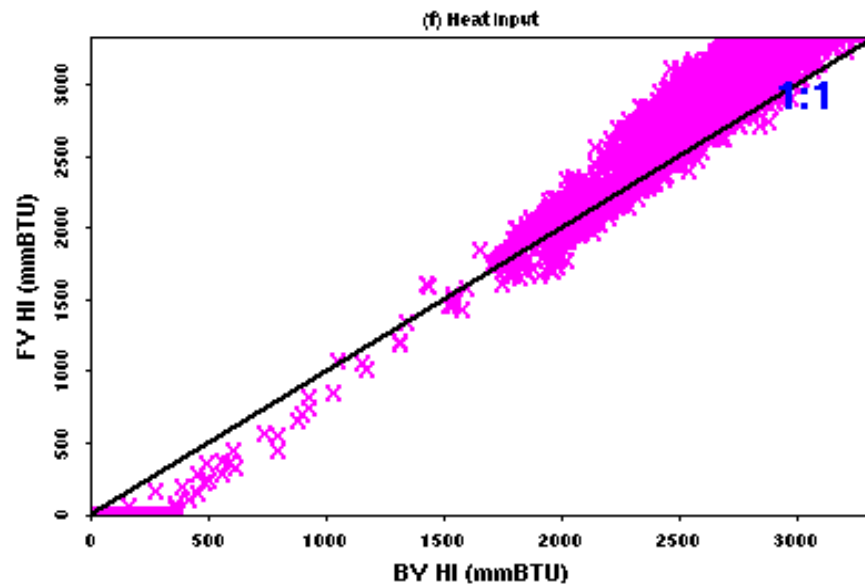
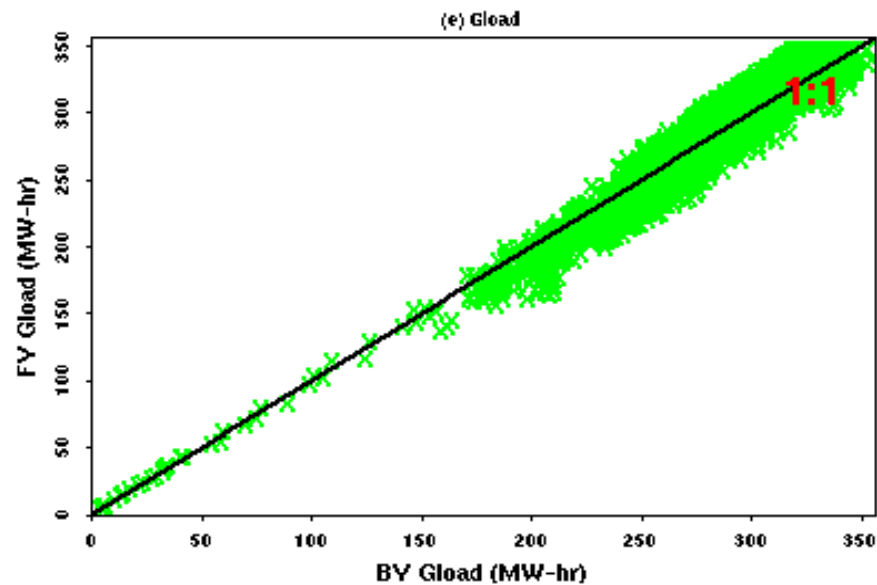
(d) Heat Input



(a), (c) — 2007 CAMD — ERTAC Projection

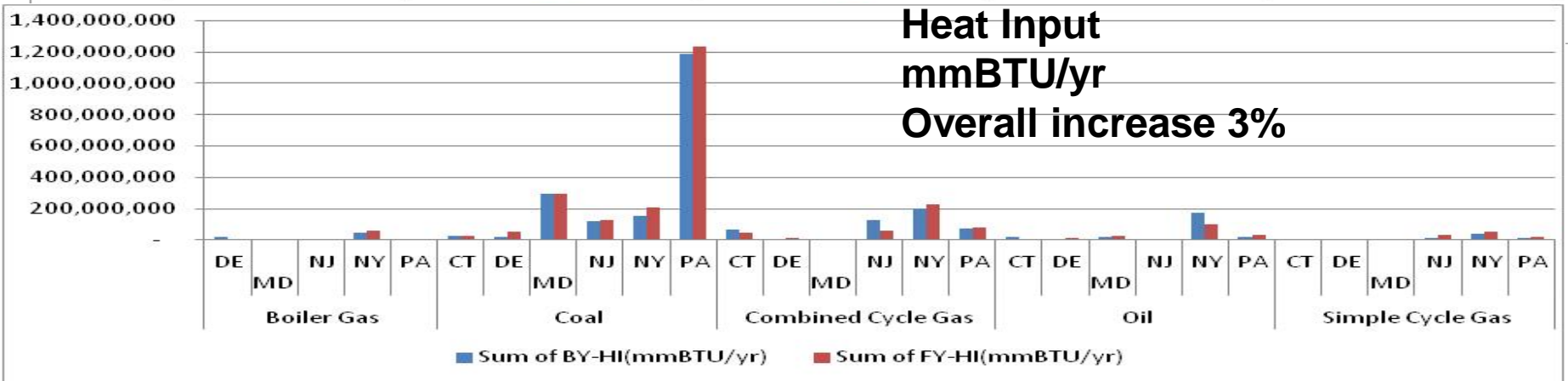
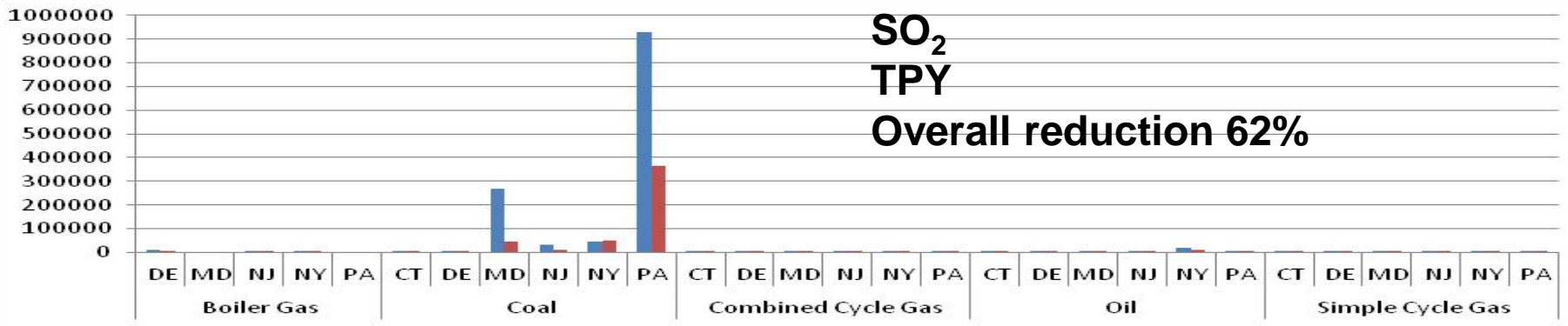
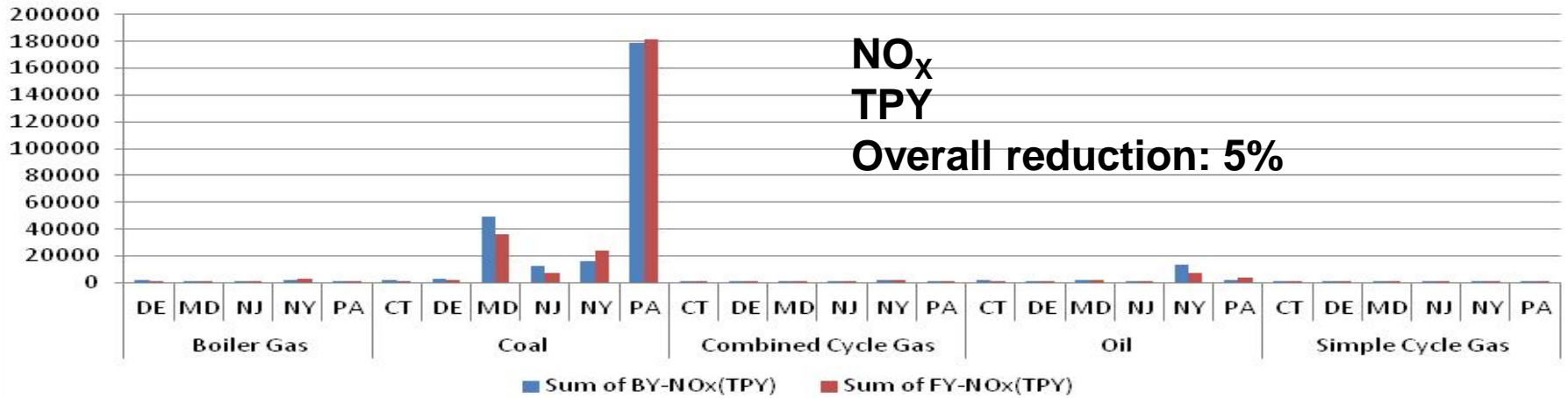
(b), (d) * 2007 CAMD * ERTAC Projection

unit level activities at 3797-5 (page 2)



(e) X Gross Load (MW-hr) (f) X Heat Input (mmBTU) (g) — 2007 CAMD — ERTAC Projection

EXAMPLE DRAFT ERTAC OUTPUT



Questions on ERTAC EGU Growth?