

STAMI UREA

ADVANCETM INSIGHT

PLANT OPTIMIZER

Optimizing efficiency, output and
plant performance to its maximum

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The innovation & license company
of Maire Tecnimont.



ADVANCE™ INSIGHT

PLANT OPTIMIZER

The challenge

To sustainably increase plant load and increase operational margins by better plant operation is a challenging task.

The ADVANCE™ INSIGHT Plant Optimizer will advance your plant operators to plant supervisors who only have to guide the process through unpredicted upsets.

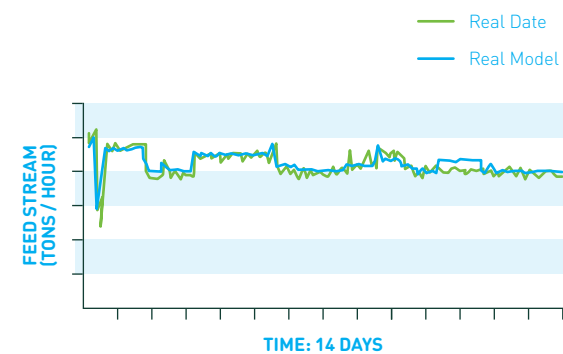
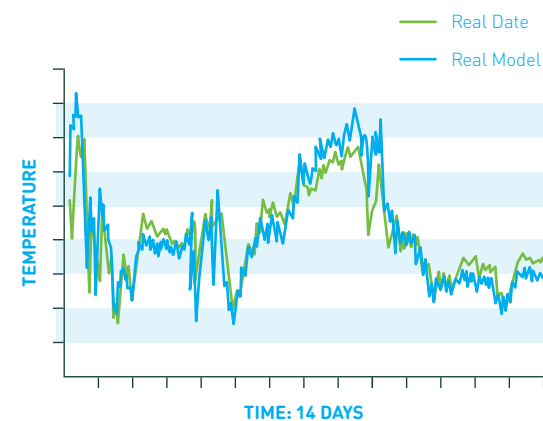
Our solution

The ADVANCE™ INSIGHT Plant Optimizer helps you to improve your operations and optimize operational plant performance by offering:

- Increased urea production (2-5%)
- Improved plant stability
- Reduced energy consumption (2-5%)
- Increased process insight by:
 - Providing calculated key process variables
 - Monitoring ammonia emissions in real-time
 - Soft sensing laboratory data in real-time
 - Predictive maintenance on instrumentation
- Increased uptime
- Reduced number of operator interventions
- Improved equipment reliability due to consistent, best-practice operation

The first step towards installing the ADVANCE™ INSIGHT Plant Optimizer solution is performing an advanced assessment of your plant condition, process control and process dynamics. During the assessment a process plant model is built and tuned specifically to your urea plant.

The model results are validated during the assessment using actual plant data in a wide range of operating conditions.



The model allows the calculation of the optimal set points for the current plant operation, taking into account constraints and disturbances. Stamicarbon goes one step further by combining this with its process control solutions. As a result the ADVANCE™ INSIGHT Plant Optimizer acts like an autopilot for your urea plant. This approach enables the ADVANCE™ INSIGHT Plant Optimizer to guarantee a sustainable efficiency increase of 2-5%.

WHY the Advance™ INSIGHT Plant Optimizer?

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- Improved plant stability
- Reduced energy consumption (2-5%)
- Increased process insight:
 - Calculated key process variables
 - Monitored ammonia emission in real time
 - Soft sensing laboratory data in real time
 - Predictive maintenance on instrumentation
- Increased uptime
- Minimal alarms
- Reduced number of operator interventions
- Improved equipment reliability due to consistent, best-practice operation

