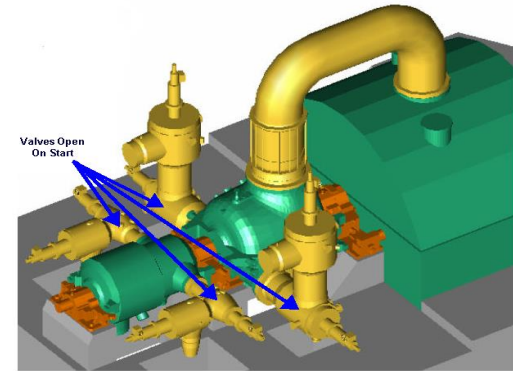


## Would You Like To:

- Reduce Unit Start-up Time by 50 %+?
- Improve Unit Availability and Reliability?
- Reduce Turbine and Boiler Damage?
- Receive Excellent and Fast Payback?



## Accelerated Unit Startup - What Is It?

The Accelerated Unit Start (AUS) program is a licensed, proprietary steam generating unit start up program that utilizes engineering thermodynamics to allow turbines to start up at lower temperatures, pressures, and in less time. This proprietary program is **Proven, Safe, Effective, and Cost Beneficial** for all boiler / turbine configurations and complies with turbine and boiler OEM protection requirements.

The **Accelerated Unit Start** program reduces cold and hot startup time by about 50% while improving unit reliability and availability.

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*Innovative Strategies for Operational Excellence*

## Multiple Turbine Types and Sizes

Utility	Plant	Unit	Boiler OEM	Boiler Type	MW	Turbine OEM
Client1	Plant1	Unit 1	C.E.	Supercritical	650 MW	Westinghouse
Client1	Plant1	Unit 2	B&W	Supercritical	710 MW	Westinghouse
Client1	Plant2	Unit 1	B&W	Supercritical	800 MW	GE
Client1	Plant3	Unit 3	Foster Wheeler	Supercritical	584 MW	GE
Client1	Plant4	Unit 4	B&W	Supercritical	800 MW	GE
Client1	Plant5	Unit 4	C.E.	Supercritical	750 MW	Westinghouse
Client2	Plant1	Unit 1	B&W	Drum	200 MW	GE
Client2	Plant1	Unit 2	C.E.	Drum	200 MW	Westinghouse
Client2	Plant2	Unit 3	C.E.	Drum	400 MW	Westinghouse
Client2	Plant2	Unit 4	C.E.	Drum	400 MW	Westinghouse
Client2	Plant3	Unit 3	Riley Boiler	Drum	300 MW	Westinghouse
Client2	Plant2	Unit 1		Drum	100 MW	GE
Client3	Plant1	Unit 2	B&W	Supercritical	800 MW	GE
Client3	Plant2	Unit 2	B&W	Supercritical	550 MW	GE
Client4	Plant1	Unit 7	C.E.	Drum	150 MW	Westinghouse
Client4	Plant2	Unit 6	Foster Wheeler	Drum	860 MW	Westinghouse
Client4	Plant3	Unit 4	Riley		450 MW	Allis Chalmers
Client5	Plant1	Unit 4	Riley	Drum	638 MW	Siemens
Client5	Plant2	Unit 5	C.E.	Drum	170 MW	GE
Client6	Plant1	Unit 3	C.E.	Drum	800 MW	Westinghouse
Client6	Plant1	Unit 4	C.E.	Drum	800 MW	Westinghouse
Client7	Plant1	Unit 2		Drum	125 MW	GE
Client8	Plant1	Unit 3		Drum	225 MW	GE
Multiple Clients	Multiple Plants	Various	B&W	Drum	150- 175 MW	GE/Westinghouse



Global Consulting Services

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## The Benefits To You

- **Strong Return on Investment ~ 1 Year Pay Back**
- **Reduced unit starts by an average of 50-65%**
- **Increased production through reduced start times and more dependable starts**
- **Increased dispatch frequency due to higher dependability, lower startup costs and faster startup times**
- **Reduced startup costs (up to 50%) due to lower annual fuel usage, lower water costs, and lower station service power requirements**
- **Reduced stress on boiler = less failures**
- **Reduced startup expansion and hotspot issues**
- **Reduced boiler exfoliation in the superheaters and reheaters**
- **Environmental benefits include reduction of NOx, CO, Hg, and particulates**
- **Reduces turbine stresses by about 50% because startup temperatures are much lower for the total start time**
- **Reduces turbine stop valve maintenance**
- **Reduces turbine steam path degradation**

## Why You Need It NOW!

**Start getting additional generation revenues immediately from reduced startup time while reducing stress accumulation and steam path damage.** Enjoy lower O&M costs, increased availability and reliability, lower capital costs, higher capacity factor and reduced emissions. Why Wait? Call Synterprise TODAY at 423-267-5363.