

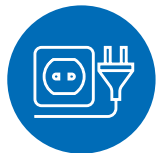


Digital Power Plant for Steam

Transforming Coal-Powered Electricity Generation



A Post-COP21 World Requires Cleaner, More Efficient Coal Power



40% of the world's power is generated by coal



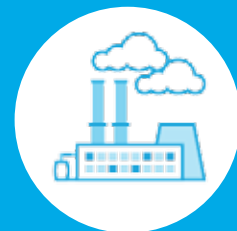
Energy demand is set to grow **48%** by 2040



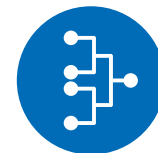
Coal will remain **third largest** fuel source



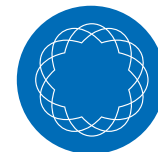
195 countries committed to reducing greenhouse gas emissions at COP21



Software Is Transforming the Coal-Powered Steam Plant



>10,000 sensors capture data



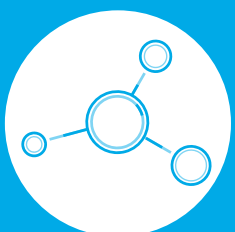
Predix Cloud powers big data analysis



Artificial intelligence drives actions



Works on GE, Alstom and most other **coal power plants**



The GE Digital Power Plant Software Suite, Powered by Predix™



Business Optimization (BO)

Better business decisions based on price, demand and plant capacity.



Operations Optimization (OO)

Enhanced operational decision making across the entire fleet.



Asset Performance Management (APM)

Monitor plant health to improve performance and uptime.



Advanced Controls & Edge Computing

Automated system response through integration with control systems.



Cyber Security

Dedicated security for industrial environments.



Better Efficiency, Fewer Emissions, Less Downtime*



1.5% increased lifetime plant efficiency



Up to **~\$50MM in value** (over €44MM) for operators over the lifespan of a plant



0.5 gigaton reduction in greenhouse gas emissions



67,000 fewer tons of coal consumed per year



Equivalent to **120 million fewer cars** on the road

* Calculated on a 1000 MW existing steam-powered coal plant