Client Company	Company			Date	
Туре	Location	Plant Type	Plant Location	(Year)	Scope of Service
US-IOU	US State-NE	Coal/gas Steam	Latin America	2017	Review and evaluation of warehouse operations for one (1) coal fired, internationally based power plant, to optimize process and minimize inventory
US-IOU US-IOU	US State-NE US State-NE	Combined cycle Various	Latin America Various		Review and evaluation of warehouse operations for two (2) combined cycle internationally based power plants, to optimize process and minimize inventory Providing LTSA and maintenance strategy consulting to plants in the fleet,
					including RFP process and negotiation of subsequent agreements (2016 – ongoing).
US-IOU	US State-NE	Various	Various	2016	Providing combined cycle power plant training to corporate personnel (2016).
US-IOU	US State-NE	Coal/gas Steam		2006	Performed technical due diligence for acquisition of an international coal generation asset (2006).
US-Muni	US State- Midwest	Coal/gas Steam	US State- Midwest	2016	Providing Owner's Engineer Services for thermal plant boiler upgrade (2016 – ongoing).
OUS		Light/Heavy			Oversee warehouse optimization and enhancements to improve operational
Utility	Latin America	Fuel Oil	Latin America	2018	efficiency and decrease shrinkage and waste (Commencing March 2017).
OUS Utility	Latin America	Light/Heavy Fuel Oil	Latin America	2016	Providing maintenance management consulting and CMMS implementation services (2016).
OUS					Provide due Diligence Support on the acquisition of several peaking and
Utility	North America	Various	North America	2015	combined cycle power plants (2015-2016).
OUS Utility	North America	Simple cycle gas turbine	North America	2015	Provide training on LTSA type agreement for LMS100 power plant (2015)
OUS					
Utility	North America	Combined cycle	North America	2011	Performed reliability assessment on cogeneration asset (2011).
Engineer	US State-	Simple cycle			Provide O&M estimating support on multiple projects including LM6000,
/EPC	Midwest	gas turbine	Various	2011	LM2500, Wartsila and 7FA (2011 – ongoing).
Engineer	US State-	Simple cycle			Provide O&M and technical support as part of a team supporting acquisitions by
/EPC	Midwest	gas turbine	Various	2012	their client (2012 – ongoing).

Client					
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Туре	Location	Plant Type	Plant Location	(Year)	Scope of Service
					Developed plant O&M assessment program, to aide in improving practices at
					insureds facilities, and oversee the implementation of the program at coal,
	US State-		US State-		combustion turbine, hydro and reciprocating engine based power plants (2005 –
Industrial	Midwest	Various	Midwest	2005	ongoing).
	US State-		US State-		Provide ongoing support as required for loss control and root cause analysis on
 Industrial	Midwest	Various	Midwest	2005	claims (2005 – ongoing).
	US State-		US State-		Provided technical evaluation for underwriting support on run of the river hydro
Industrial	Midwest	Hydro	Midwest	2014	facility, (non-FERC evaluation) (2014).
l	US State-		US State-		Provided technical evaluation for underwriting support for coal fired power
	Midwest	Coal/gas Steam			plant (2014).
US-IOU	US State-	Combined cycle		2017	Currently, developing RFP for an LTSA type agreement for legacy Tier 2 7FA.03
	Midwest		Midwest		plants (2017 – ongoing).
	US State-		US State-		
US-IOU	Midwest	Combined cycle		2017	Developing user guides for plant personnel for the agreements (2017).
	US State-	1 2 2 2 2 7 2 2	US State-		, ,
US-IOU	Midwest	Combined cycle	Midwest	2013	Assisted with various engineering and upgrades studies (2013 – ongoing).
US-IOU	US State-	Combined cycle	US State-	2013	Assisted with negotiations of LTSA type agreements on 2x1 501F5ee+, and 2x1
	Midwest		Midwest		7FA.05 based power plants (2013 – 2014).
					Provided outage management & scheduling support for an outage at a Midwest
Domestic			US State-		cogeneration facility major inspections on 2 GE Frame 6B gas turbines and 70
IPP	US State-NE	Combined cycle		2016	MW GE steam turbine (2016).
Domestic			US State-		Provided site specific systems training to operations and maintenance
IPP	US State-NE	Combined cycle		2015	personnel at a Midwest cogeneration facility (2015 – 2016).

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Туре	Location	Plant Type	Plant Location	(Year)	Scope of Service
Domestic			US State-		
IPP	US State-NE	Combined cycle	Midwest	2011	Performed High Impact Low Probability reliability and risk assessment (2011).
					Performing assessments and reports on maintenance strategies, risk mitigation
Industrial	US State-NE	Various	Various	2013	and reliability (2013 – ongoing).
					What are set "Or costinual and Control Strategies for Doducing Strategies Turking
Industrial	US State-NE	Combined syste	Various	2015	Wrote report, "Operational and Control Strategies for Reducing Steam Turbine Damage from Cycling Combined Cycle Plants, (2015)
illuustilai	US State-NE	Combined cycle	various	2013	Wrote report, "Gas Turbine Upgrades for Enhancing Operational Flexibility",
Industrial	US State-NE	Combined cycle	Various	2007	(2007 updated 2009)
Industrial	US State-NE	Combined cycle			Coauthored report, "Mitigation of Technical and Market Risks in Combustion
					Turbine-Based Projects – Long Term Maintenance Contracts, Insurance,
					Electricity and Natural Gas Contracts" (2001)
Engineer					Provided technical due diligence support for Nigerian asset acquisitions (2013 –
/EPC	US State-SE	Combined cycle	Africa	2013	2014).
Engineer					Provided technical due diligence for company's client on international asset
/EPC	US State-SE	Combined cycle	Africa	2013	(2013).
		Simple cycle			Expert Witness on a loss related to damage on a combustion turbine as a result
Industrial	Asia	gas turbine	Asia	2015	of shipping (2015-2016)
					Provided condition assessment & inspection support on steam turbines in
OEM	US State-SW	Combined cycle		2016	storage for new project installation opportunities (2016).
ILIC IOLI	US State-		US State-	2002	On going CT floot ORNA support in terms of accounting modeling and four-resting
US-IOU	Midwest	Combined cycle			On-going CT fleet O&M support in terms of economic modeling and forecasting
US-IOU	US State-	Combined cycle	US State- Midwest	2003	CT Fleet support for LTSA negotiations and re-evaluations (2003 & on-going)
	Midwest		iviiuwest		
	US State-		US State-		
US-IOU	Midwest	Combined cycle	Midwest	2003	Training for CT facilities

Client					
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Type	Location	Plant Type	Plant Location	(Year)	Scope of Service
	US State-		US State-		·
US-IOU	Midwest	Combined cycle	Midwest	2003	Outage management services for CT plants (on-going)
	US State-		US State-		Vendor surveillance for combustion turbine component repairs. (2003 & on-
US-IOU	Midwest	Combined cycle	Midwest	2003	going)
Engineer/		Simple cycle			Provided expert witness support for a litigation in central America, relating to
EPC	US State-NW	gas turbine	South America	2016	the refurbishment, installation and commissioning Siemens 501D5A (2016).
	US State-		US State-		Provided expert witness testimony in plant generation, maintenance,
US-IOU	Midwest	Various	Midwest	2014	availability and reliability (2014 – 2016).
	US State-		US State-		Provided Outage Management and Construction Supervision Oversight for coal
US-IOU	Midwest	Coal/gas Steam	Midwest	2007	plant planned maintenance outages (2007 – 2009).
	US State-		US State-		Provided control engineering support for a distributed control system
US-IOU	Midwest	Coal/gas Steam	Midwest	2008	replacement on a pulverized coal power plant in Illinois (2008).
					Provided project management services for the restoration and upgrade, and
	US State-	Simple cycle	US State-		installation of three (3) GE Frame 7B as well as two (2) new Frame 6B
US-IOU	Midwest	gas turbine	Midwest	1999	combustion turbines in peaking application, (1999 - 2000)
Internatio					Developed and conducted a 3-day steam and gas turbine training course to
nal IPP	Asia	Combined cycle	Asia	2016	operations and maintenance personnel in Kuala Lumpur, Malaysia (2016).
US-IOU	US State-NW	Combined cycle	US State-NW	2017	Developing site specific steam turbine training class to be presented (2017).
					Developed and Conducted 3-day training program on gas turbine maintenance
US-IOU	US State-NW	Combined cycle	US State-NW	2016	(2016).
					Providing oversight for gas turbine major inspection and vendor surveillance for
US-IOU	US State-NW	Combined cycle	US State-NW	2016	component repairs (2016).
Internatio					Providing O&M and feasibility consulting for anaerobic digester power plants
nal IPP	North America	Biofuel	Various	2015	(2015 – ongoing).
Engineer	US State-	Simple cycle	_		Provided critical spare parts review on Rolls Royce Trent 60 CC plant following
/EPC	Midwest	gas turbine	US State-NE	2016	plant ownership transfer, (2016).

Company Type Location Plant Type Plant Location Plant Location (Year) Scope of Service Provided outage management services for major outages in coal plant flee including responsibilities as outage manager, commissioning lead, scheduland area lead positions managing work scopes within the outage. Work sincluded turbine generator uprates, balance of plant upgrades, distribute control system replacement, feedwater heater replacement, and routine maintenance. Planning occurred in 2011 and outage execution in 2012. Outages were completed ahead of schedule with effective performance improvement (2011 – 2012). Engineer US State- //EPC Midwest Coal/gas Steam Various 2009 Outage management consulting to various clients (2009 – 2011). Engineer US State- //EPC Midwest Simple cycle gas turbine US State-NW 2010 utility IRP (2010).	
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Engineer US State- Midwest Coal/gas Steam North America 2011 maintenance. Planning occurred in 2011 and outage execution in 2012. Outages were completed ahead of schedule with effective performance improvement (2011 – 2012). Engineer US State- Midwest Coal/gas Steam Various 2009 Outage management consulting to various clients (2009 – 2011). Engineer US State- Simple cycle Performed combustion turbine retirement analysis to support western US	I
Engineer US State-	-
/EPC Midwest Coal/gas Steam North America 2011 improvement (2011 – 2012). Engineer /EPC Midwest Coal/gas Steam Various 2009 Outage management consulting to various clients (2009 – 2011). Engineer US State- Simple cycle Performed combustion turbine retirement analysis to support western US	I
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	ern US based
Engineer US State- Simple cycle US State- Performed combustion turbine retirement analysis to support a Midwest	lwest based
/EPC Midwest gas turbine Midwest 2009 utility IRP (2009).	
Engineer US State- Performed various technical due diligence assignments for the purchase of	nase of
/EPC Midwest Various Various 2006 various technologies / assets (2006 – 2009).	
Engineer Light/Heavy	
/EPC US State-SW Fuel Oil US State-SW 2009 Provided maintenance practices training for oil-fired plants (2009).	
Engineer US State- Provided outage planning and scheduling support for coal plant planned of	ined outage
/EPC Midwest Coal/gas Steam US State-SW 2006 at a southwest US based utility (2006).	
Engineer US State- US State- Developed operations procedures for a central power plant at a Universit	versity in
/EPC Midwest Steam Midwest 2006 the US (2006 - 2007).	
Engineer US State- Supported a reliability assessment of two coal plants for large eastern US	rn US utility
/EPC Midwest Coal/gas Steam US State-NE 2006 (2006).	

Client					
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Туре	Location	Plant Type	Plant Location	(Year)	Scope of Service
Engineer	US State-				Provided outage management support of a turbine-generator outage for large
/EPC	Midwest	Coal/gas Steam	US State-SW	2007	southwestern US utility (2007).
Domestic					
IPP	US State-SE	Landfill Gas	US State-SE	2015	Provided Operations Procedures at LFG Energy Plants (2015-2016).
Domestic					
IPP	US State-SE	Landfill Gas	US State-SE	2015	Implemented CMMS at LFG Energy Plants (2015-2016).
Domestic	US State-		US State-		
IPP	Midwest	Coal/gas Steam	Midwest	2015	Provided outage management support to planned outages (2015).
Domestic		Biofuel /other			Providing feasibility for biogas renewable energy projects (2012 – 2019). New
IPP	US State-SE	renewable	US State-SE	2012	Plant Development.
Domestic		Biofuel /other			Engineering, construction, commissioning services for biogas renewable energy
IPP	US State-SE	renewable	US State-SE	2012	projects (2012 – 2019). New Plant Development.
Domestic		Biofuel /other			Development and implementation of operating and maintenance procedures
IPP	US State-SE	renewable	US State-SE	2012	support for biogas renewable energy projects (2012 – present).
					Project Management, construction management and commissioning for solar
OEM	Europe	Solar thermal	US State-SW	2013	thermal energy project.
OEM	Europe	Solar thermal	US State-SW	2013	On-going O&M program support for solar thermal energy project
					Development and implementation of O&M procedures for solar thermal energy
OEM	Europe	Solar thermal	US State-SW	2013	project
	Europe	Solar thermal	US State-SW	2013	Solar thermal energy project O&M staff training programs
Engineer					Provided subject matter expert advice on steam turbine generator removal,
/EPC	US State-NW	Combined cycle		2014	refurbishment and reinstallation (2014).
	_		US State-		Developed and presented training for asset management and combined cycle
Industrial	Europe	Combined cycle		2011	plant fundamentals courses (2011 – 2013).
	US State-		US State-		
US-Coop	Midwest	Coal/gas Steam	Midwest	2009	Provided outage management consulting at coal-fired plants (2009 – 2010).

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	US State-		US State-		Provided outage planning and scheduling training utilizing Microsoft Project for
US-Coop	Midwest	Coal/gas Steam	Midwest	2010	plant and corporate personnel (2010).