



























## » Wärtsilä project references – examples







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Project Name	Year	Plant type & use	Owner	Location	Output	Engine Type	Fuel	Scope	Picture
<b>Arun</b>	2014	Power Generation	PLN	Sumatra, Indonesia	184 MW	19X W20V34SG	Natural gas	Citec provided full scope services including mechanical, piping, civil, electrical engineering and documentation	
<b>Eklutna Generation Station</b>	2014	Flexible base load power Generation	Matanuska Electric Association (MEA)	Palmer, AK, USA	171 MW	10 x W18V50DF	Natural gas & LFO	Citec provided detail engineering services for process, piping, ducting and platform engineering as well as station manuals	
<b>IPP3</b>	2014	Base load & Peak load power generation	National Electric Power Company	Jordan	573 MW	38 x W18V50DF	Natural gas, HFO & LFO	Citec provided detail engineering services for process, piping, ducting and platform engineering as well as station manuals	
<b>Kiisa ERPP I &amp; II</b>	2013 & 2014	Emergency reserve power plant  Utility	Elering & Estonian transmission	Estonia	250 MW	27 x W20V34DF	Natural gas & LFO	Citec provided full scope engineering and documentation including piping, process, electrical and civil	
	2013	Power Generation	KivuWatt Ltd.	Kibuye, Rwanda	25MW	3 x W20V34SG	Natural gas	Citec provided detail engineering services for civil, mechanical & electrical engineering including piping & ducting as well as station manuals	
<b>Quisqueya I &amp; II</b>	2013	Flexible Base Load Combined Cycle Plant.  Mining industry	Barrick Gold Corp.	Dominican Republic	430 MW	12+12 x W18V50DF	Natural gas & LFO	Citec provided detail engineering services for combined cycle plant including process, piping, civil and mechanical as well as station manuals	

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<b>Sasolburg</b>	2012	Flexible base load power generation	Sasol New Energy's (SNE)	South Africa	175 MW	18 x W20V34SG	Natural gas	Citec scope included design of engine foundations, plant layout process, piping, civil and mechanical as well as station manuals	
<b>Eden Yuturi</b>	2012	Power Generation.  Oil & Gas Industry	Petroamazonas EP	Oriente jungle, Ecuador	85 MW	4 X W18V32GD + 3X W18V34SG + 6XW18V32	HFO, LFO & Natural Gas	Citec scope included design of engine foundations, plant layout process, piping, civil and mechanical as well as station manuals	
<b>Antelope Station</b>	2011	Power Generation  Oil & Gas Industry	Golden Spread Electric Coop.	Texas, USA	170 MW	18 x W20V34SG	Natural gas	Citec scope included design of engine foundations, platform & duct support structures as well as station manuals	
<b>AGIP Villano</b>	2011, 2006 & 2003	Power Generation  Oil & Gas Industry	AGIP	Oriente jungle, Ecuador	26.5 MW + 8 MW	5 X W16V32LN + 1X W12V32	Crude oil	Citec scope included design of engine foundations, platform & duct support structures as well as station manuals	
<b>Aliaga Industrial Park</b>	2011, 2009 & 2007	Base load power generation	Cakmaktepe Energy	Aliaga, Turkey	270 MW	28 x W20V34SG	Natural gas	Citec scope included design of engine foundations, plant layout, piping, platform & duct support structures as well as station manuals	
<b>Kipevu III</b>	2011	Power Generation	Kenya Electricity Generating Company Limited (KenGen)	Mombasa, Kenya	117 MW	7 x W18V46	Crude oil	Citec scope included design of engine foundations, plant layout process, piping, civil and mechanical as well as station manuals	

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<b>Geramar I &amp; II</b>	2010	Power Generation	Geradora de Energia do Norte S/A	State of Maranhão, Brazil	331.8 MW	38 x Wärtsilä 20V32	HFO	Citec scope included design of engine foundations, plant layout process, piping, civil and mechanical as well as station manuals	
<b>Humboldt Bay Power Plant</b>	2010	Grid Base load, Gas Power Plant	Pacific Gas & Electric Co	Humboldt Bay, Eureka, California, USA	162.7 MW	10 x Wärtsilä 18V50DF	LFO & Natural gas	Citec scope included design of engine foundations, plant layout process, piping, civil and mechanical as well as station manuals	
<b>Nishat</b>	2010	Power Generation	Nishat Chunian Power Limited/ Nishat Power Limited	Jambar Kalan, Kasur District, near Lahore	200 MW + 200MW	11 x Wärtsilä 18V46 + 11 x Wärtsilä 18V46	HFO	Citec scope included design of engine foundations, plant layout process, piping, civil and mechanical as well as station manuals	
<b>UTE LINHARES</b>	2010	Power Generation	Linhares Geracao S.A.	Linhares-Espirito Santo, Brazil	204 MW	24 x Wärtsilä 20V34SG	Natural gas	Citec scope included design of engine foundations, plant layout process, piping, civil and mechanical as well as station manuals	
<b>Viana</b>	2009	Power Generation	Termeletrica Viana S/A	Viana, Espirito Santo State, Brazil	174.6 MW	20 x Wärtsilä 20V32	HFO	Citec scope included design of engine foundations, plant layout process, piping, civil and mechanical as well as station manuals	
<b>Greenpower</b>	2009	CHP Agricultural Industry	Greenpower NV	Merksplas, Belgium	9 MW	1 x Wärtsilä 20V32	Liquid biofuel	Citec provided full scope engineering and documentation including piping, process, electrical and civil	

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<b>Pearsall Station</b>	2009	Power Generation	South Texas Electric Cooperative	Texas, USA	203 MW	24 x W20V34SG	Natural gas	The scope included design of engine foundations, process engineering, platform, duct support structures and tanks as well as station manuals	
<b>Szóreg</b>	2009	Compression plant for gas storage  Oil & Gas industry	MOL Hungarian Oil & Gas Plc	Szóreg, Hungary	4050 kW	5 x Wärtsilä 9L34SG	Natural gas	Citec provided detail engineering services including process, piping, civil and mechanical as well as station manuals	
<b>Attock</b>	2008	Base load Combined Cycle  Oil Refinery	Attock Gen Ltd.	Rawalpindi, Pakistan	160 MW	9 x Wärtsilä 18V46	HFO	Citec provided detail engineering services including process, piping, civil and mechanical as well as station manuals	
<b>Linate</b>	2007	Base load, Trigeneration  Utilities	Malpensa Energia Srl	Linate airport, Milan, Italy	24 MW	3 x Wärtsilä 20V34SG	Natural gas	Citec provided detail engineering services including process, piping, civil and mechanical as well as station manuals	
<b>Makuhari</b>	2007	Base load, Trigeneration  Utilities	Energy Advance (ENAC)	Makuhari, Chiba, Japan	15.7MW	1 x Wärtsilä 20V34SG+1 x Wärtsilä 16V34SG	Natural gas	Citec provided detail engineering services including process, piping, civil and mechanical as well as station manuals	
<b>Gera</b>	2006	Power Generation	Geradora de Energia do Amazonas S/A	Brazil	85 MW	38 x Wärtsilä 20V32	HFO	Citec provided detail engineering services including process, piping, civil and mechanical as well as station manuals	

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<b>Dr Bird I and II</b>	2005	Floating Power Generation	Jamaica Energy Partners	Old Harbour, Jamaica	123.5 MW	8 x Wärtsilä 12V46, 3 x Wärtsilä 18V46	HFO	Citec provided detail engineering services including process, piping, civil and mechanical as well as station manuals	
<b>Western 102</b>	2005	Base load Mining	Barrick Goldstrike Mines Inc.	Nevada, USA	116 MW	14 x Wärtsilä 20V34SG	Natural gas	Citec provided detail engineering services including process, piping, civil and mechanical as well as station manuals	
<b>Manisa</b>	2005 & 2004	CHP Utilities	Manisa Ticaret Sanayi Odasi Organize Sanayi Bölgesi	Manisa, Turkey	84.8 MW	3 x Wärtsilä 18V50DF, 4 x Wärtsilä 20V34SG	LFO & Natural gas	Citec provided detail engineering services including process, piping, civil and mechanical as well as station manuals	
<b>BTC</b>	2004	Pumping Station Oil & Gas	BTC Co. Ltd, U.K.	Posof, Pasinler, Çayirli & Altinyayla, Turkey	95.9 MW	4x Wärtsilä 12V34SG + 14x Wärtsilä 18V34SG	Natural Gas	Citec provided full scope engineering and documentation including piping, process, electrical and civil	
<b>Limbe</b>	2004	Power Generation Utilities	AES Sonel, Cameroon	Cameroon	85.4 MW	5 x Wärtsilä 18V46	HFO	Citec provided detail engineering services including process, piping, civil and mechanical	
<b>Pavana III</b>	2004	Power Generation	Luz y Fuerza de San Lorenzo S.A. (Lufussa), Honduras	Pavana, Honduras	267.4 MW	16 x Wärtsilä 18V46	HFO	Citec provided detail engineering services including process, piping, civil and mechanical	

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<b>OCP</b>	2003	Pumping Station + Base load Power Plant  Oil & Gas	OCP Ecuador S.A.	Amazonas, Cayagama, Sardinas and Paramo, Ecuador	99 MW	22 x Wärtsilä 12V32LN + 4 x Wärtsilä 6R32LN + 2 x Wärtsilä 12V200	HFO	Citec provided full scope engineering and documentation including piping, process, electrical and civil	