

Reference List for Hydraulic Power Units

<u>Project Name</u>	<u>End User</u>	<u>Location</u>	<u>Valve Size</u>	<u>Actuator Type</u>	<u>Supplied</u>
Takoradi T2 Expansion	Takoradi International	Ghana	-	HPU & Spares	2019
Assiut & Cairo West	EEHC	Egypt	-	Hyd SR Linear & Quarter Turn Actuators c/w Electro-Hydraulic Controls and HPU's	2019
Hokchi Field Development	Hokchi Energy	Mexico	6"-14"	Hyd SR c/w HPU	2019
Kingsbury Prover	BPA	UK	-	HPU	2018
West Nile Delta	BP	Egypt	2"-10"	Pneu & Hyd Linear c/w HPU & Air Receivers	2018
West Nile Delta	BP	Egypt	2"-30"	Pneu & Hyd SR c/w HPU, Air Receivers & Accumulator Banks	2018
West Nile Delta (3 & 4)	BP	Egypt	2"-20"	Pneu & Hyd Linear c/w HPU & Accumulator Skid	2018
Jeju	KEPCO	Korea	Control	Hyd Linear SR c/w HPU's	2017
Dirok Gas Field Development	HOEC	India	12"	Spring to Close c/w Electro Hydraulic Controls & HIPPS HPU	2016
Blisworth	BPA	UK	-	HPU	2016
Osan (436 mW)	KEPCO	South Korea	-	Turbine Bypass Systems/2 x HPU	2015
-	Saudi Aramco	Saudi Arabia	-	HPU	2015
Ashuganj (400 mW)	APSCCL	Bangladesh	-	Turbine Bypass/3 x Hydraulic Panels/1 x HPU	2015
Takoradi T2 Expansion (330 mW)	Takoradi International	Ghana	-	Turbine Bypass/HPU	2014
Bacton	Shell	UK	-	HPU's, 18 off Accumulator Banks & Local Control Systems. Hyd Flushing, Installation &	2014

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HIPPS - Prototype System	-	India	4" Ball	Hyd SR/HPU	2014
Crude Oil Pipeline	BTC	Azerbaijan	-	HPU	2014
Tuaspring (411 mW)	-	Singapore	Control	Turbine Bypass/HPU	2013
Deen Dayal Field Development	EIL	India	-	HPU & Spares for 2 x Subsea Actuators	2013
St Fergus	Shell	UK	-	HPU's	2012
Port Greenwich	SGN	UK	-	HPU's/Installation	2012
Canvey Feeder Booster Station	BPA	UK	-	HPU/Accumulator Bank/Control Panels	2011
CATS Terminal	BP	UK	-	Beachhead Valve HPU/Accumulator Bank and Commissioning	2011
Braefoot Bay	Shell	UK	-	HPU's/Installation	2011
Kingsbury	Chevron	UK	-	HPU	2010
Rio Tuba Nickel HPP	-	-	10"	Hyd DA, HPU, Accumulator Bank	2007
Dimlington	BP	UK	-	HPU	2006
Inamenas	BP/Statoil/Sonatrach	Algeria	10"	Electo-Hydraulic & HPU's	2006
AKPO Field Development	Total	Nigeria	-	HPU and Accumulator Bank	2006
Greater Plutonio Calm Buoy	BP	Angola	-	Compartment HPU/Turn Table HPU	2005
BBL Pipeline	BBL	Netherlands	-	HPU	2005
North Cormorant	Shell	UK	-	HPU & Limit Switch Assembly	2004

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Karachaganak	KPO	Kazakhstan	20"	Hyd DA Linear c/w HPU	2004
Golden Eye Onshore Facilities	Shell	UK	-	Limit Switches, HPU & Netherlock	2003
Gas 2025 Subsea Pipeline - Isle of Man Spur Pipeline	Bord Gais	UK	-	HPU	2002
Hemel Hempstead & Northampton Site	BPA	UK	-	HPU's	2002
Churchover & Alrewas	Transco	UK	2", 30"	Gas Over Oil c/w Standalone HPU	2002
Mersey	BPA	UK	-	HPU	2001
Schiehallion	BP	UK	-	HPU & Accumulator Bank	2001
Kingsbury	Chevron	UK	-	HPU	2000
Carnforth to Netherkellet	Transco	UK	36"	Gas Over Oil c/w Open/Close & 2oo3 Voting HPU's	2000
Tengiz	Tengizchevroil	Kazakhstan	-	Flow Control Skid, HIPPS Skid & HPU	1999
Thames Bulk Terminal	BP	UK	-	Stand Alone HPU, Electric Motor Driven c/w Accumulation	1999
Bacton Seal Reception	Shell	UK	-	HPU's, Electric Motor Operated c/w Accumulation	1999