

Reference List of Waste Heat Recovery Systems implemented by KALUGIN JSC

Russia:		
Severstal JSC (Cherepovets), BF4 V=2700m ³ , Hot Stove Unit	Gas and air heat pipe heat exchangers	in operation since 2005, 2016
NLMK (Lipetsk), BF7 V=3800m ³ , Hot Stove Unit	Gas and air heat pipe heat exchangers	in operation since 2010
Ufaleynickel JSC (Verkhny Ufaley), Shaft Furnace No.4	Plate heat exchanger for pre-heating shaft furnace blast by waste gases	in operation since 2014
Chusovskoy Metallurgical Plant JSC (Chusovoy), Hardening Furnaces	Plate heat exchangers for pre-heating combustion air by waste gases	in operation since 2014
Turkey:		
KARDEMIR A. Ş. (Karabuk), BF5 V=1650m ³ , Hot Stove Unit	Gas and air heat pipe heat exchangers	in operation since 2014
India:		
Sunflag Iron & Steel Co.Ltd. (Bhandara), BF V=350m ³ , Hot Stove Unit	Gas and air tube heat exchangers	in operation since 2005
Kirloskar Ferrous Industries Limited (Hospet), BF1 V=254m ³ , Hot Stove Unit	Gas and air tube heat exchangers	in operation since 2005
Kirloskar Ferrous Industries Limited (Hospet), BF2 V=254m ³ , Hot Stove Unit	Gas and air tube heat exchangers	in operation since 2008
Hospet Steel, BF1 V=254m ³ , Hot Stove Unit	Gas and air tube heat exchangers	in operation since 2012
NECO Jaiswal, BF1 V=730m ³ , Hot Stove Unit	Gas and air tube heat exchangers	in operation since 2013
JSW Vijayanagar, BF1 V=2300m ³ , Hot Stove Unit	Gas and air tube heat exchangers	in operation since 2016
Ukraine:		
PJSC EMZ (Yenakiyev), BF3 V=1719m ³ , Hot Stove Unit	Gas and air tube heat exchangers	in operation since 2011
Syria:		
Hmisho Steel Melting, BF1&BF2 V=254m ³ , Hot Stove Unit	Gas and air tube heat exchangers	

In China more than 40 Waste Heat Recovery Systems based on heat pipes are in operation at Kalugin Stove Units.