

No	Client	Plant	Year	TOREX scope of works and their purpose	Values/Indices
1	NPRO Ural Vysokogorsky GOK Russia	4 × sintering machine-75	2005	Retrofitting of the process to reduce power consumption and improve the sinter quality. Process engineering. Technical support	Natural gas consumption reduced from 6.1 to 5.7 nm ² /t Solid fuel consumption reduced from 45 to 43 kg/t
2	Kachkanarsky GOK Russia	2 × sintering machine-250	2007	Retrofitting of thermal diagrams (heat flow diagrams) of bowl-type coolers employing the recycling of the heat from off-gases. Process engineering - TSD [technical specification for design], TS [technical specification]. Technical assistance in project implementation	Natural gas consumption reduced from 6.5 to 4.5 nm ² /t Solid fuel consumption reduced from 60.3 to 60.0 kg/t The capacity of a waste heat recovery unit increased from 14.7 to 25.2 GJ/h
3	EVRAZ Abagur Ore Dressing- Sinter Plant Russia	2 × sintering machine-75 2 × sintering machine-90	2008	Comprehensive retrofitting of a sintering plant Process engineering - TSD [technical specification for design], TS [technical specification]. Technical assistance in project implementation	Capacity increased from 1.15 to 1.42 t/m ² *h Solid fuel consumption reduced from 77.5 to 61.4 kg/t
4		1 × modernized sintering machine- 90	2011	Setup of lime production at modernized sinter machine-90 No. 7 Process engineering - TSD [technical specification for design]. Technical assistance in project implementation	Transition to the production of 50 t/h of lime (65% CaO ^A) to produce the ore concentrate with lime. Dust emissions reduced from 200 kg/h to 15 kg/h
4	Vysokogorsky GOK Lebyzhinsk Sinter Plant, Russia	4 × modernized sintering machine- 90	2007	Increase of the production rate and product quality at a sinter plant. Process engineering and development of engineering solutions	Production rate increased from 1.11 to 1.45 t/m ² *h Natural gas consumption reduced from 5.7 to 4.2 nm ² /t Solid fuel consumption reduced from 43 to 40 kg/t Amount of -5 mm fines in the product flow reduced from 8.2 to 6.2%
5	NLMK Russia	4 × sintering machine-312	2007	Retrofitting of ignition hoods and thermal diagrams (heat flow diagrams) of linear coolers. Process engineering and development of engineering solutions for retrofitting	Production rate increased from 1.28 to 1.42 t/m ² *h Natural gas consumption reduced from 4.8 to 4.3 nm ² /t Solid fuel consumption reduced from 33.0 to 31.5 kg/t The capacity of a waste heat recovery - 159 GJ/h
6	United metallurgical company - Chusovskoy Metallurgical Plant - Russia	1 × sintering machine-16.5	2009	Comprehensive retrofitting of a sintering plant. Process engineering, TSD [technical specification for design].	Production rate increased from 1.27 to 1.53 t/m ² *h Natural gas consumption reduced from 9.5 to 6.0 nm ² /t Solid fuel consumption reduced from 67,1 to 60,4 kg/t
7	METALLOINVEST Uralskaya Stal' (Ural steel) Russia	1 × modernized sintering machine - 84	2012	Overhaul and retrofitting of the production process at sintering machine No. 4. Process engineering - TSD, TS for the revamping of equipment; technical assistance in project implementation	Production rate increased from 1.12 to 1.31 t/m ² *h Natural gas consumption reduced from 23 to 13 nm ² /t Quality of sinter improved: +5 mm sinter amount increased from 67,7 to 70,1% -0.5 mm - from 5.5 to 6.1%; % Fe increased from 53.1 to 54.2%
8	METINVEST YUGOK UKRAINE	4 × modernized sintering machine - 75	2013	Retrofitting of the sintering plant. Load balance tests. Process engineering - TSD [technical specification for design]. TS for retrofitting and equipment revamping.	Capacity increased from 1.2 to 1.45 t/m ² *h Natural gas consumption reduced from 13.5 to 12.2 nm ² /t Solid fuel consumption reduced from 45 to 42 kg/t Power consumption decreased by 3% Quality of sinter improved: +5 mm sinter amount increased from 66 to 75%
9	METALLOINVEST Uralskaya Stal' (Ural steel) Russia	4 × modernized sintering machine- 84	2015	Overhaul of the sinter plant. Process engineering - TSD [technical specification for design], TS [technical specification], technical assistance in the overhaul works	End-to-end technical and economic assessment of the sinter and blast furnace production with changed blast furnace feed composition, quality and metallurgical properties of sinter