

<b>project name</b>	Khartoum New International Airport (KNIA)		
	power and chilled water design		
<b>owner</b>	Project Implementation Unit for KNIA, Khartoum (Sudan)		
<b>prime consultant</b>	Dorsch Consult Airports, Munich (Germany)		
<b>location</b>	Khartoum (Sudan)		
<b>project duration</b>	begin	october 2003	
	end	december 2008	

The airport of Khartoum is located close to city center and represents a permanent peril. Possibilities for airport extension do not exist due to the centric location.

The Presidency and its Project Implementation Unit for KNIA plan a new Greenfield airport, for 4.5 million passengers per year, some 40 km south of Khartoum.



example cooling towers in desert area, Nevada (U.S.A.)

### responsibilities

power supply relevant contribution to airport site selection

master planning, design, specification writing for chilled water supply and tri-generation (combined power-heat-cold generation) system:

- chilled water generation: absorption and compression chillers, total 18 MW<sub>Cold</sub> (61 MMBTUH), cooling towers
- chilled water distribution

master planning, design coordination, specification writing of power supply:

- 6 diesel engine generator sets, 1,200 kVA each
- fly wheel break load free power supply

turn key (EPC – engineering, procurement, construction) tender preparation and bid evaluation acc. to FIDIC “silver book”

