

Gulf Region Division U.S. Army Corps of Engineers



***Building a
Strong Foundation!***





Mission and METL



Mission: The Gulf Region Division provides quality, sustainable, responsive, full spectrum engineering in support of civil/military construction in Iraq.

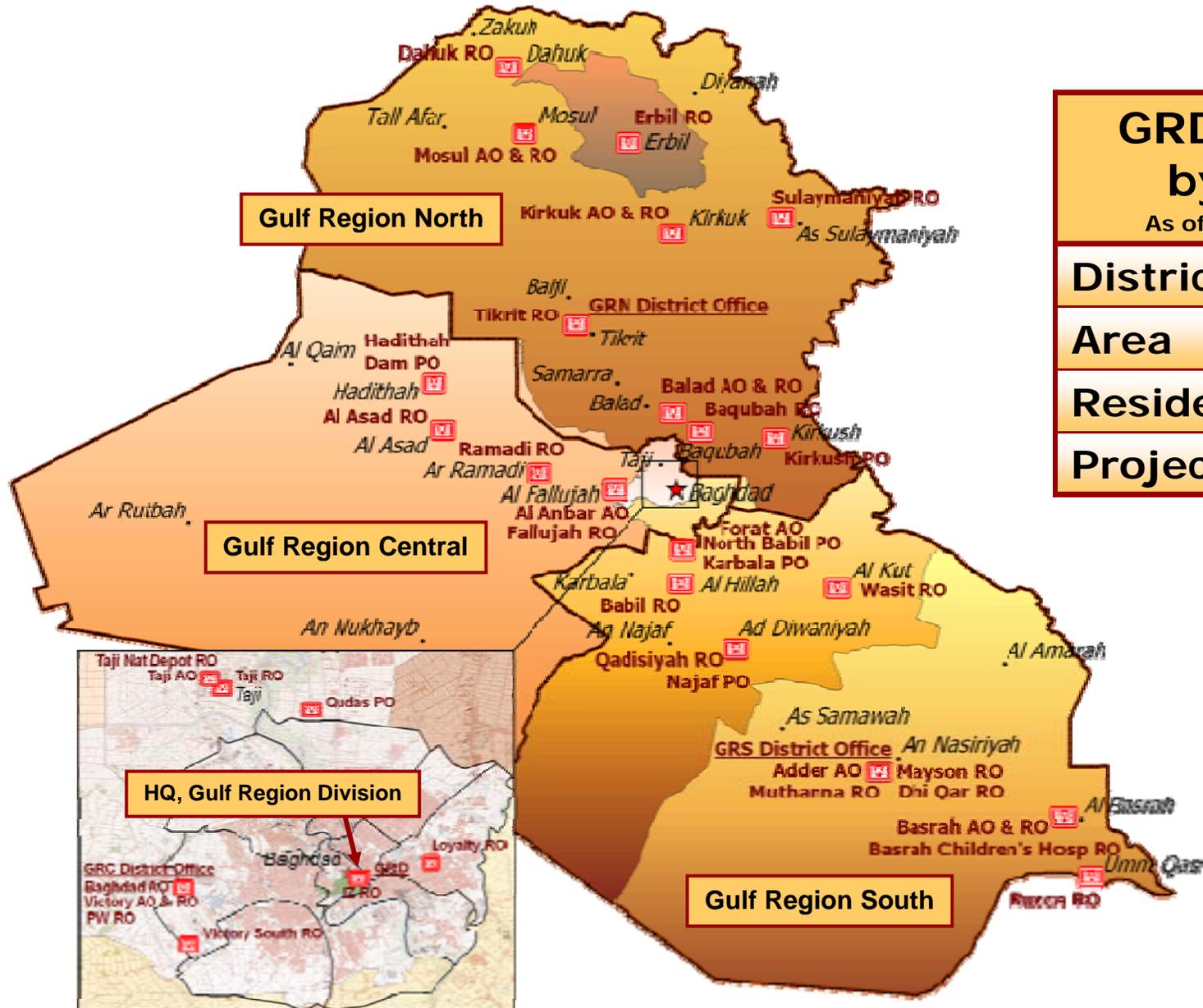
Committed to assisting the Iraqi Government to assume full responsibility for national infrastructure.

METL:

1. Recruit the right teammates, effectively transition them, provide an environment to excel
2. Districts deliver quality projects on time and on budget
3. Ensure the integrity of our Programs
4. Help Iraqis solve their problems and build capacity resulting in a relief in place
5. Remain responsive as both mission and structure transform



Disposition



GRD Offices by Type	
As of January 2009	
District	3
Area	10
Resident	27
Project	6



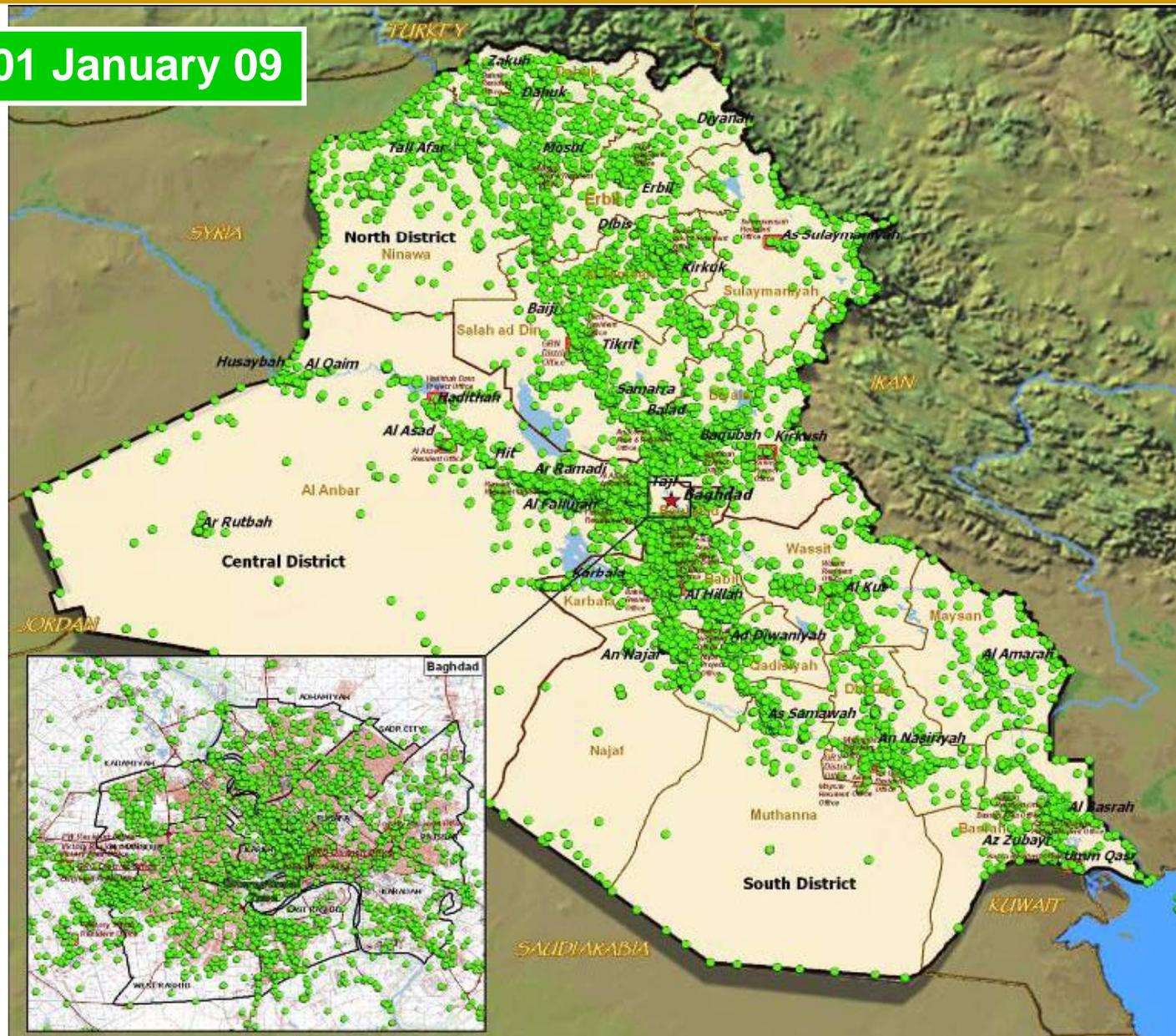
Iraq Reconstruction Projects



Completed as of 01 January 09

Program	
GRD and Non-GRD	
IRRF	
Complete	5606
DFI	
Complete	535
CERP	
Complete	10520
ISFF	
Complete	628
ESF	
Complete	357
OMA	
Complete	403
MILCON	
Complete	136
OTHER	
Complete	146
Grand Total	18,331

Legend	
	Completed Project





Iraq Reconstruction Projects

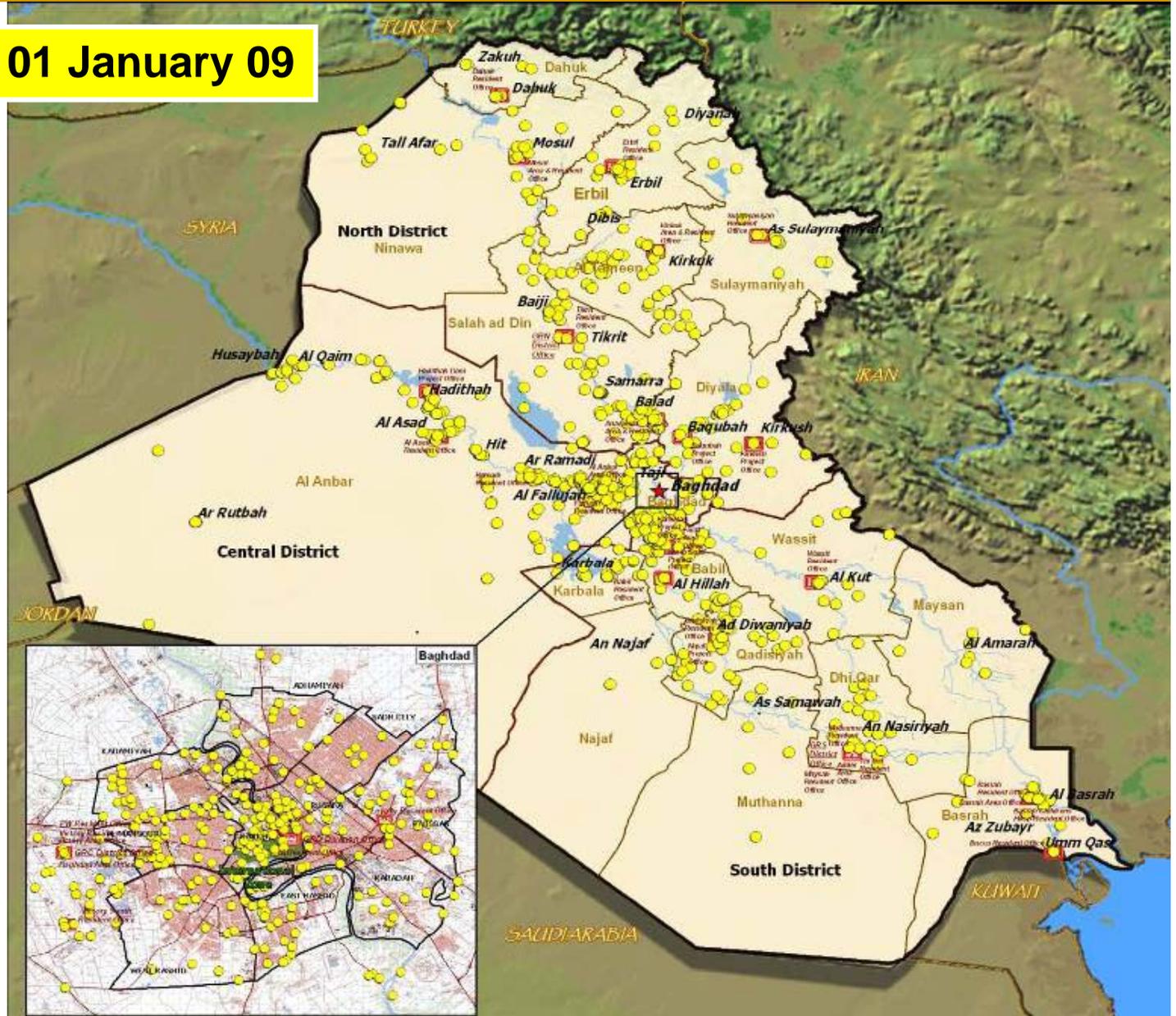


In-Progress as of 01 January 09

Program	
GRD and Non-GRD	
IRRF	
Under Construction	72
DFI	
Under Construction	1
CERP	
Under Construction	704
ISFF	
Under Construction	140
ESF	
Under Construction	186
OMA	
Under Construction	24
MILCON	
Under Construction	36
OTHER	
Under Construction	172
Grand Total	1335

Legend

Ongoing Project





Iraq Reconstruction Projects

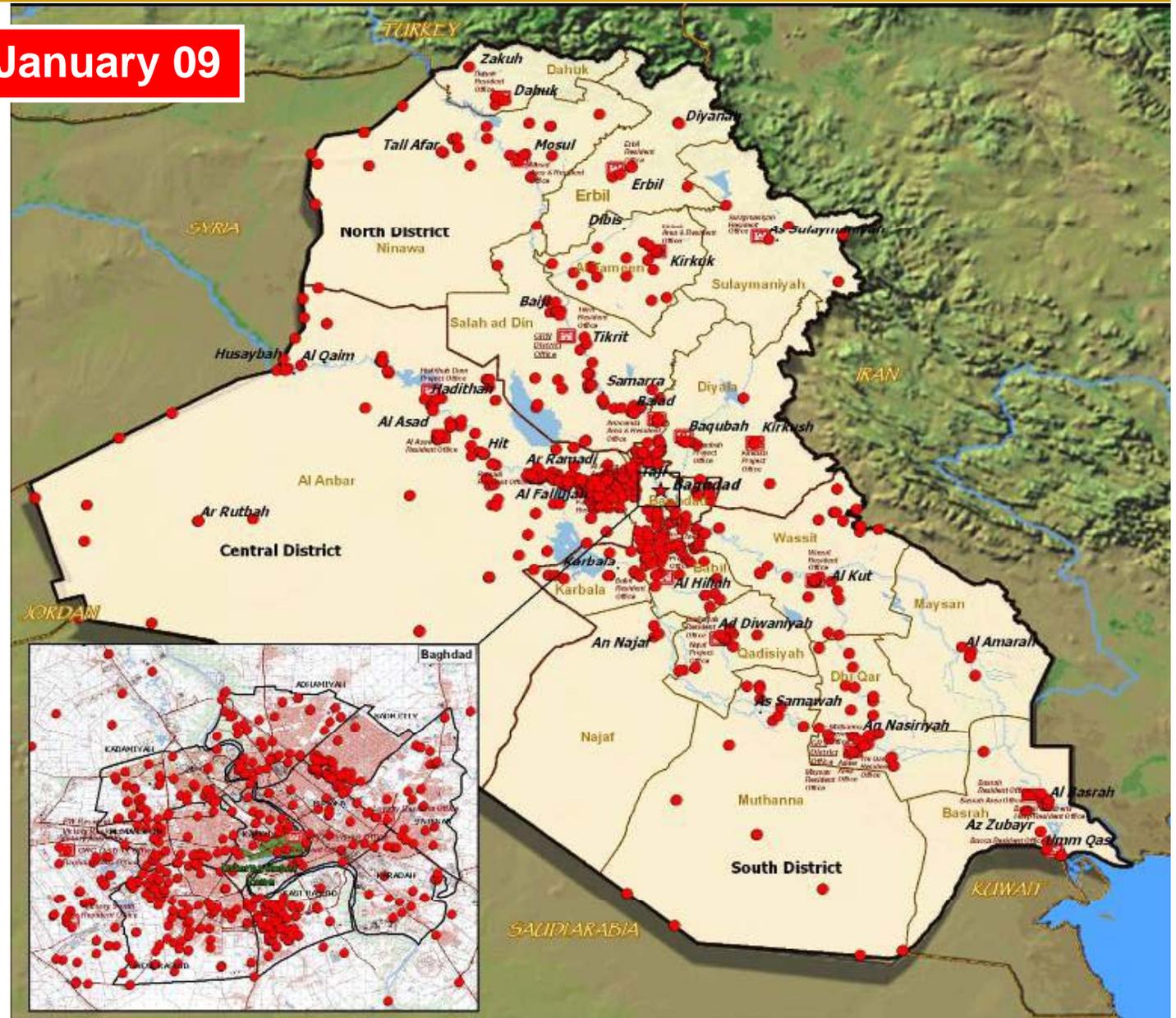


Planned as of 01 January 09

Program	
GRD & Non-GRD	
IRRF	
Planned-not started	18
DFI	
Planned-not started	0
CERP	
Planned-not started	156
ISFF	
Planned-not started	73
ESF	
Planned-not started	88
OMA	
Planned-not started	15
MILCON	
Planned-not started	68
OTHER	
Planned-not started	196
Grand Total	614

Legend

● Planned Project





Electricity Reconstruction Overview



QEP – Cable Trench in HV Substation, Ready for Cable Pulling

There are 5 generation projects valued at \$309.2M as of 30 Sep 08. The forecasted completion date of all work is 31 Dec 08. The Qudas Power Plant Expansion will be the last to complete.



Mullah Frame 6 Unit 3 Bull Gear

The Qudas Power Plant Expansion will strengthen the Baghdad Ring and serve 180,000 - 235,000 homes. However the contractor is behind schedule and may not complete all work by the end of 2009 unless he applies significantly more resources



QEP - Gas Turbine Generator #9

There are 10 transmission projects in progress valued at \$158.2M as of 30 Sep 08. The forecasted completion date of all work is 31 Mar 09. The Ghammas Substation will be the last to complete.



Transmission

The jointing work is now completed to connect Haditha Substation Baghdad Bay to West Baghdad.

World Bank Estimate: \$20B U.S. Contribution: \$4.3B

Program Product	Current Desired End State	GRD IRRF II - \$3.4B	
		Current Achieved	Remaining
Hours of Power Equiv. Per Day (per ITAO)	10-12 Iraq 10-12 Baghdad (US)	13 Iraq 11 Baghdad (1-30 Sep)	0 Iraq 0-1 Baghdad
Peak Daily Generation (MW) Pre-war 4,300 MW	6,000 (US)	Peak: 5,698 ¹⁸ Sep AVG: 4,439 (1-30 Sep)	302
U.S. Contribution (MW) (Added and Restored)	2,659 (US) 2,160 (GRD)	1,854	306
Transmission (substations) - No. of 132/400kV	43 (GRD)	35	8
Distribution (substations) - No. New/Res. 33/11kV Substations	126 (US) 89 (GRD)	87	2

Data date: 30 DEC 08



Distribution



Oil Reconstruction Overview



LPG Plant



The Bayji Oil Refinery will provide refined oil products

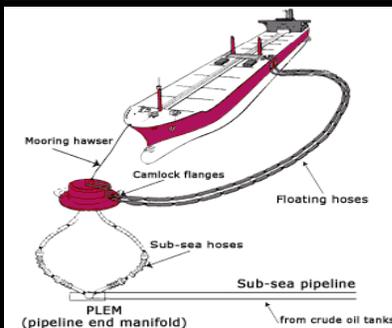


Southern Export Redundancy Project

World Bank Estimate: \$8B U.S. Contribution: \$1.7B

Program Product	Current Desired End State (\$1.7B)	GRD IRRF II - \$1.7B	
		Achieved July 2007	Remaining
Crude Oil Capacity (Million Barrels per Day) Pre-War 2.3 MBPD Post-War 0.6 MBPD	3.0 MBPD	3.0 MBPD	0 MBPD
Natural Gas Production Capacity (Million Standard Cubic Feet /Day) Pre-War 800 MSCFD Post-War 500 MSCFD	800 MSCFD	800 MSCFD	0 MSCFD
Liquefied Petroleum Gas (LPG) Production Capacity (Tons per Day) Pre-War >4,000 TPD Post-War 1,000 TPD	3,000 TPD	3,000 TPD	0 TPD

Data date: 30 DEC 08



Single Point Mooring (SPM)



Water Reconstruction Overview



Karkh Water Treatment Plant



Mosul Dam Support Projects

Mosul Dam support projects include the recently awarded \$10M contract to provide three 20m³/hour grout mixers in support of the Enhanced Grouting Plan developed by ITAO.

Storage silo contract was awarded 30 September 2009.

World Bank Estimate: \$14.4B U.S.

Contribution: \$2.4B

Program	End State (\$2.4B)	GRD IRRF (\$1.7B)	
		Achieved	Remaining
Potable Water Added Capacity	2.4 Million m ³ /day (US Total) 1.1 Million m ³ /day (GRD Portion)	0.9 Million m ³ /day	0.2 Million m ³ /day
Potable Water People Affected	8.4 Million (US Total) 5.2 Million (GRD Portion)	4.7 Million	0.5 Million
Sewerage Added Capacity	1.2 Million m ³ /day (US Total) 48 k m ³ /day (GRD Portion)	0 m ³ /day	48 k m ³ /day
Sewerage People Affected	5.3 Million (US Total) 228 k (GRD Portion)	0	228 k
Repair Canals Dams Barrages	2	2	0
Irrigated Land Added Area	387 k ha	109 k ha	278 k ha

Data Date: 03 Dec 2008



Nasiriyah Water Treatment Plant

Nasiriyah Water Treatment Facility has the design capacity to provide 240,000 m³/day to serve 550,000 people with clean drinking water. Current USG efforts are providing operations, maintenance and technical support in addition to over \$1M in parts and equipment.



Sadr City R3 Water Supply Project

Sadr City R3 Water Supply Project is 98% complete and will have the capacity to produce 96,000 m³/day of potable water, supplementing the existing water supply and serving 192,000 people. The plant is running at full capacity and performance testing is scheduled begin o/a 6 January 2009.



Facilities Reconstruction Overview



Sully Maternity and Pediatric Hospital

World Bank Estimate: \$11.7B U.S. Contribution: \$3.5B

Program Product	GRD IRRF - \$2.2B	
	Current Achieved	Remaining
Communications Post offices to serve 3.4M / mo	25 Post Offices NCMC Bldg	Al Mamoon Switch Bldg
Security Fire stations to serve 22.8M Improve AFRN to serve 16M	5 Training Academies Police Station 95 Fire Stations 114 Border Forts 5 Point of Entry 4 First Responder Networks	None
Justice Renovate/Build 38 Courthouse projects at 33 courts	38 Courthouses 5 Witness Protection 3 Correctional Facilities Secure Doc Storage Fac.	2 Courthouses 1 Witness Protection 1 Correctional Facilities
Health Restore Hospitals to treat 15,000 patients per day Build PHCs to treat 8,000 patients per day	21 Renovations projects at 18 Hospitals 123 PHCs (construction complete)	2 Renovation projects at 2 Hospitals 9 PHCs & 2 Elevators Basrah Children's Hosp Health & Sciences Academy
Transportation 607 km of road & 5 bridges Restore the Port Facility	107 Railway Station Renovations 17 Aviation Projects 8 Port Projects 39 Village Road Projects 7 PPA Projects 57 PRDC Projects	2 Aviation Projects 2 PPAs Projects 3 PRDC Projects & 1 Expressway Project
Education & Buildings Improve school facilities for 324,000 students	809 School Projects 6 Gov't Building Projects	None

Data date: 03 Dec 08



Resafa Central Court House

Resafa Central Court House: \$7.8M, 100% complete, the facility is being used by the Iraqi Council of Judges. The Court House contains many departments that will expedite the long process of the past court system. Better security at the site will ensure adequate force protection for the occupants of the building.



Basrah International Airport

(a) Airport Radar System: \$18.3M, 97% complete, final FAA Flight test conducted 08-10Dec08. (b) Communications: \$0.75M, 100% complete. (c) Navigational Aids: \$1.6M, 100% complete, passed FAA final inspection.



Military Programs Overview



Umm Qasr Pier Site



Trash Incinerator Facility VBC

MILCON		CCA	
35 On-going Projects	\$606.6M	18 On-going Projects	\$405.7 M
60 Planned Not Started	\$1.2B	0 Planned Not Started	\$0M
Data date: 02 Dec 08		Highest profile projects are those supporting TF 134 operations at Bucca and Taji	



Camp Bucca WWTP



Entry Control Point 14, VBC

FMS		DoS	
2 On-going Projects	\$53.0M	5 On-going Projects	\$232.1 M
23 Planned Not Started	\$2.4B	0 Planned Not Started	\$0M
Cases consist of battalions, brigades, air bases, ports of entry, and border towers		(1)Landing Zone, (1)Housing, (3)OHC Projects	



Taji TIFRC Construction Site



Building with Iraqi Funds



I-CERP

- Enables CDRs to execute urgently needed reconstruction projects
- Focused on growing Iraqi military and civil self-sufficiency
- Water Purification Plants, Schools, Health Clinics, City Planning Facilities

Section 607, Foreign Assistance Act of 1961

- Authorizes U.S. Government agencies to enter into arrangements with friendly governments for construction and other types of projects and services
- GRD received delegated authority in Sep 2008 for specific GoI projects
- Provides GoI Ministries training, technical expertise and time to fully develop their own contracting and procurement procedures

Foreign Military Sales (FMS)

- Coordinated between GRD, Defense Security Cooperation Agency, Multi-National Security Transition Command-Iraq and Ministry of Defense
- Cases vary from battalion/brigade facilities to air bases, ports of entry, and border towers
- GRD FMS Program currently consists of twenty three "known" cases estimated at \$2.6B and awarded the 1st case, Umm Qasr Seawall and Pier Project, valued at \$53.0M