

Gulf Region Division

U.S. Army Corps of Engineers



*Building a
Strong Foundation!*





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.*





Deployed METL

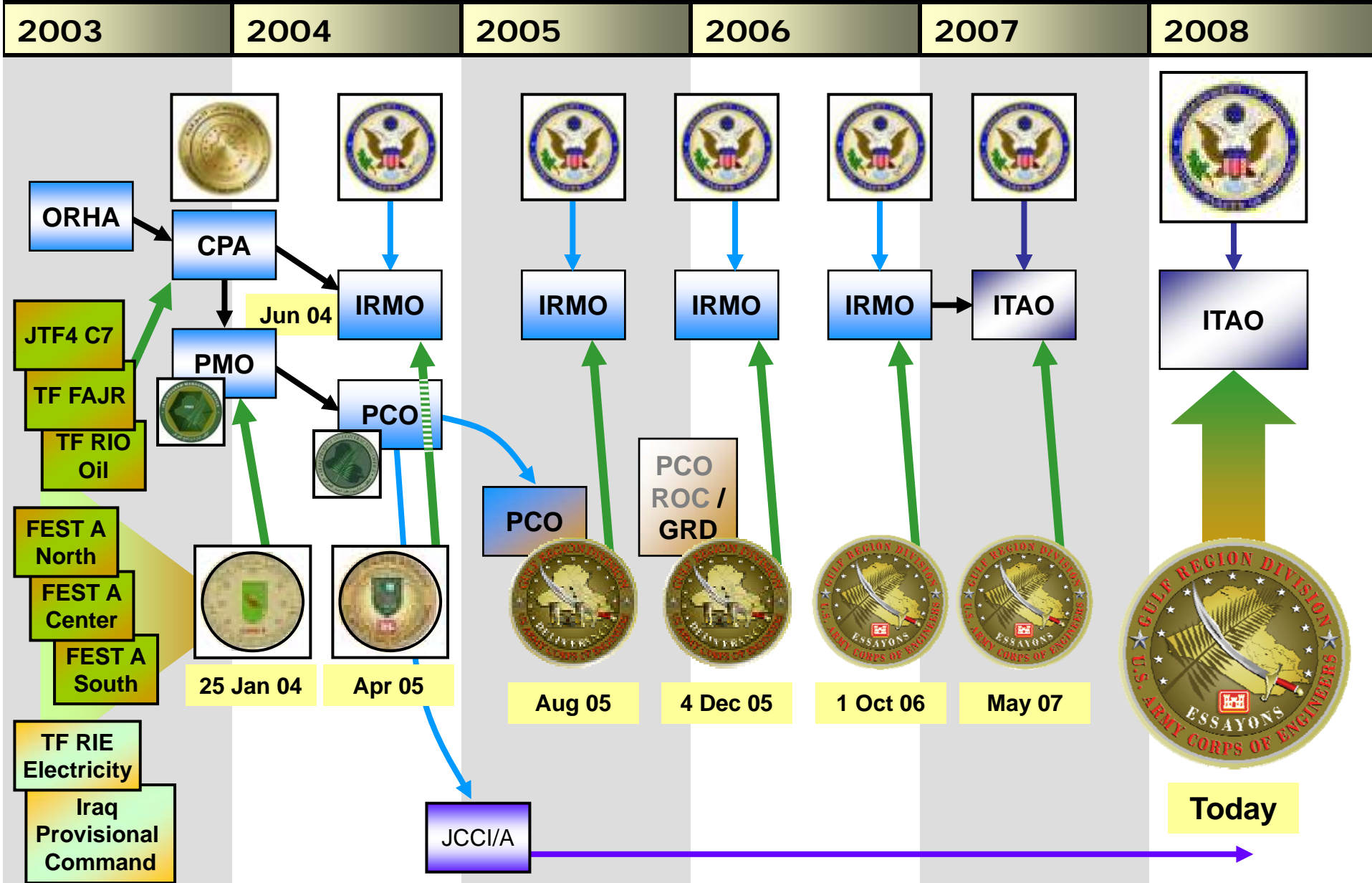


1. Recruit the right teammates, effectively transition them, provide an environment to excel
2. Districts deliver quality projects on time and on budget
3. Ensure the integrity of our Programs
4. Help Iraqis solve their problems and build capacity resulting in a relief in place
5. Remain responsive as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



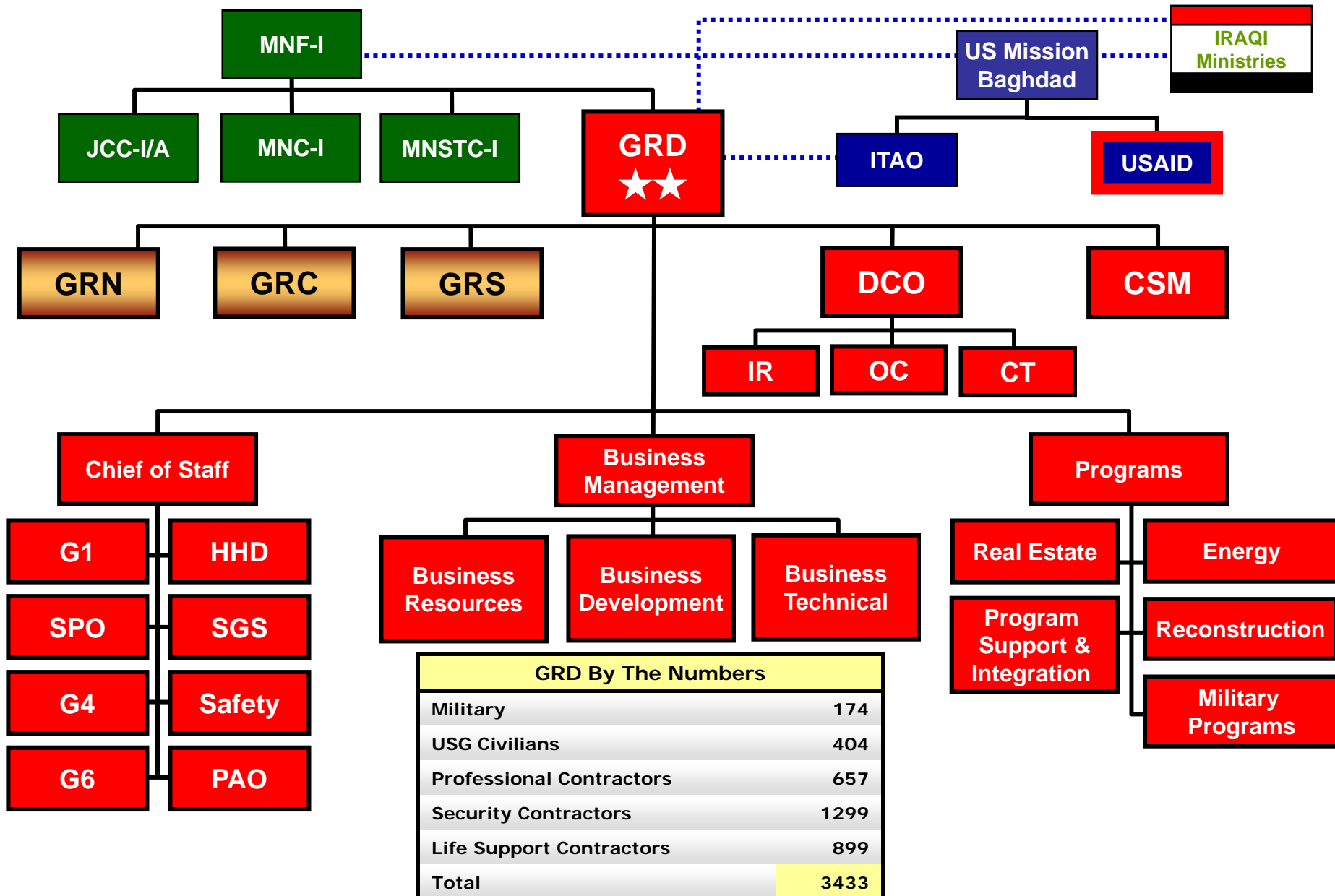


The Evolution of GRD





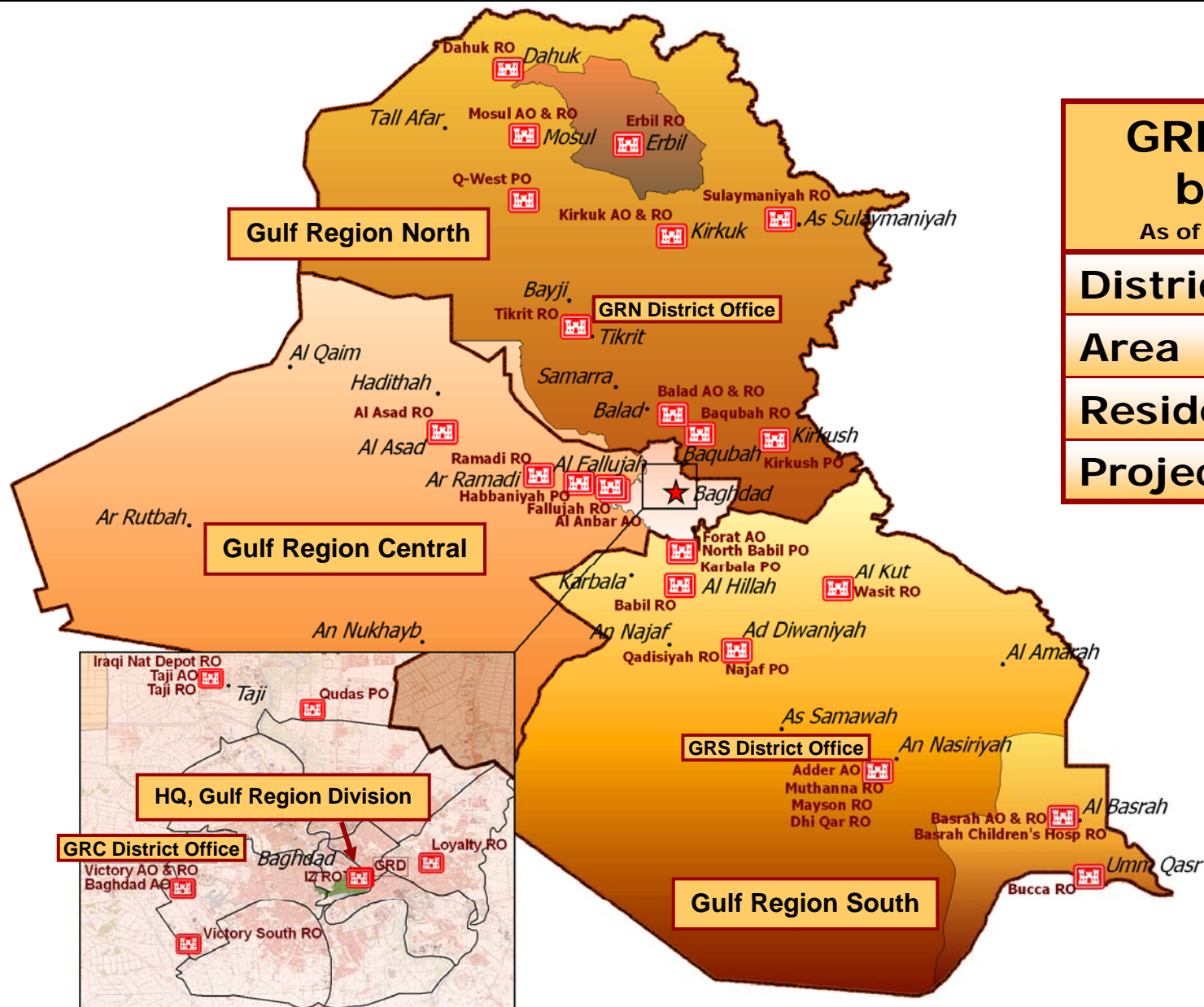
Organization



GRD By The Numbers	
Military	174
USG Civilians	404
Professional Contractors	657
Security Contractors	1299
Life Support Contractors	899
Total	3433



Disposition



GRD Offices by Type	
As of December 2008	
District	3
Area	10
Resident	27
Project	7

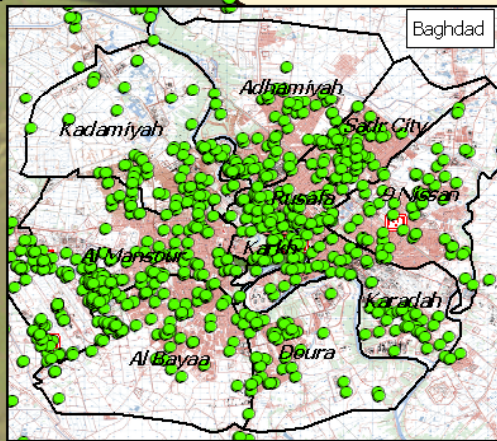
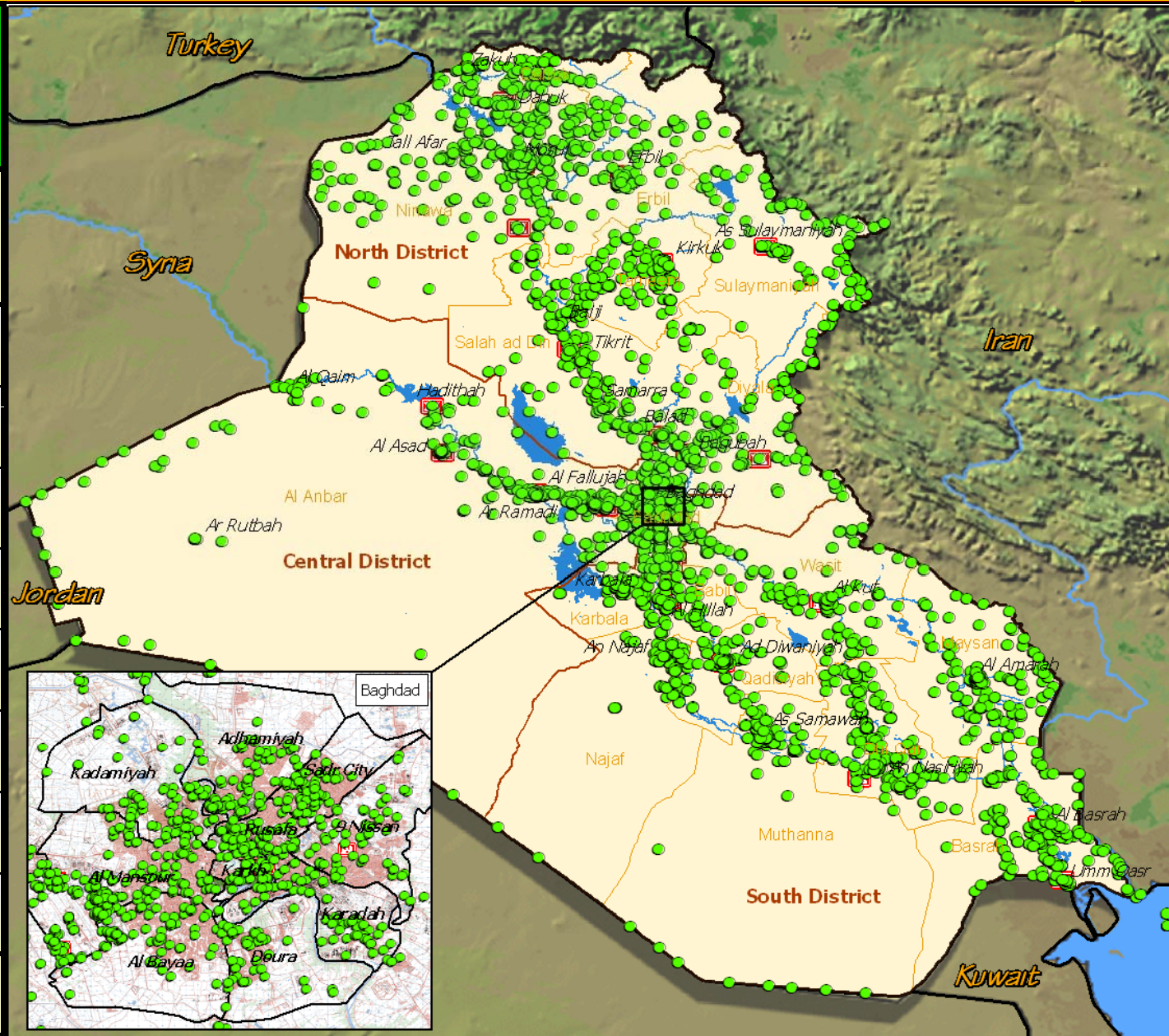


Iraq Reconstruction Projects



Complete
as of 01 DEC 08

Fund Type	Number of Projects	Cost
IRRF	5565	\$7,622.1M
DFI	536	\$1,313.0M
CERP	10905	\$1,488.6M
ISFF	652	\$2,209.0M
ESF	376	\$233.5M
OMA	410	\$292.5M
MILCON	139	\$1,002.8M
OTHER	111	\$138.4M
TOTAL	18694	\$14,299.9M





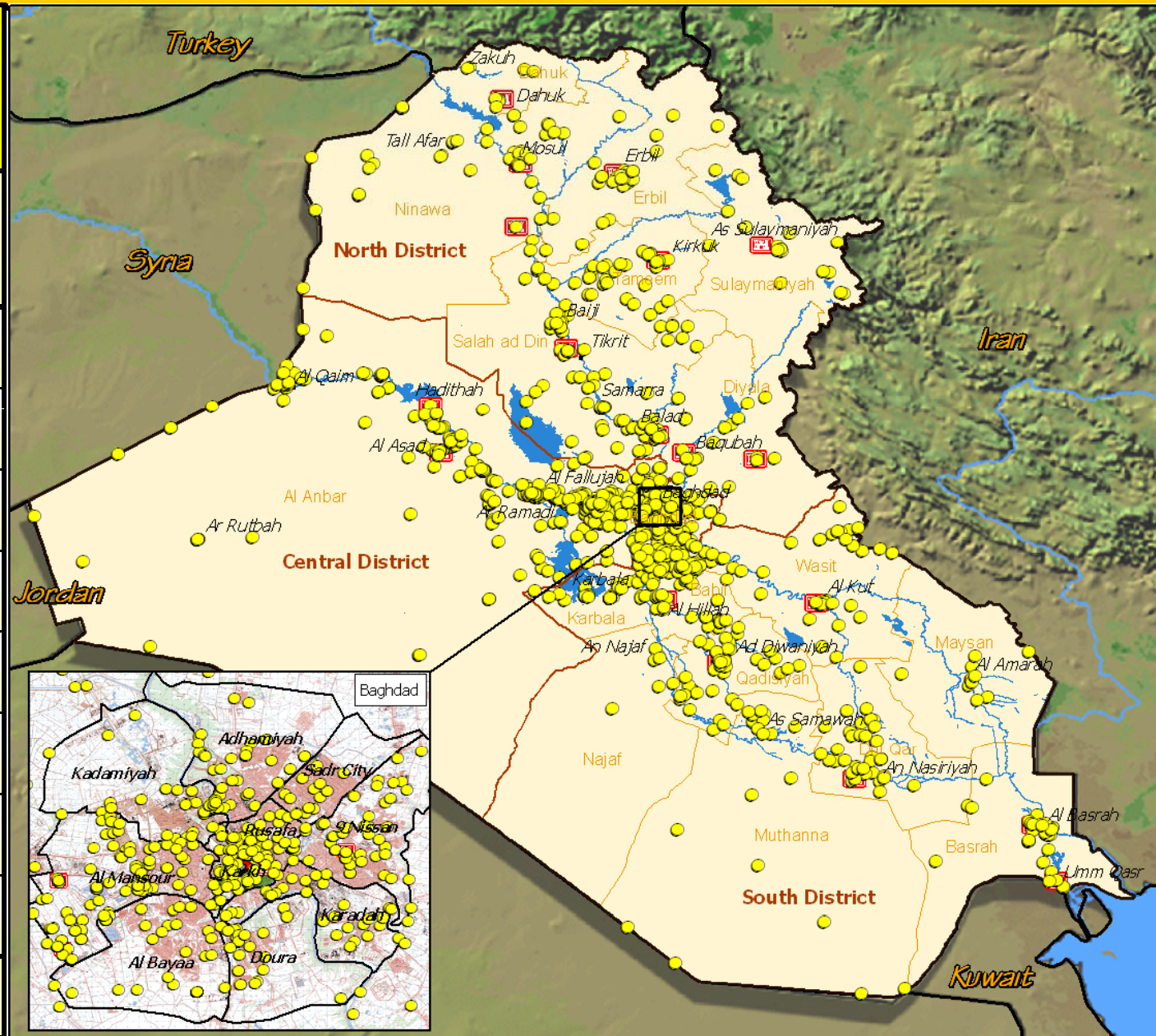
Iraq Reconstruction Projects



In Progress

as of 01 DEC 08

Fund Type	Number of Projects	Cost
IRRF	75	\$778.6M
DFI	1	\$3.1M
CERP	1177	\$410.1M
ISFF	217	\$1,222.3M
ESF	210	\$386.4M
OMA	29	\$57.9M
MILCON	75	\$926.0M
OTHER	16	\$264.1M
TOTAL	1800	\$4,048.6M



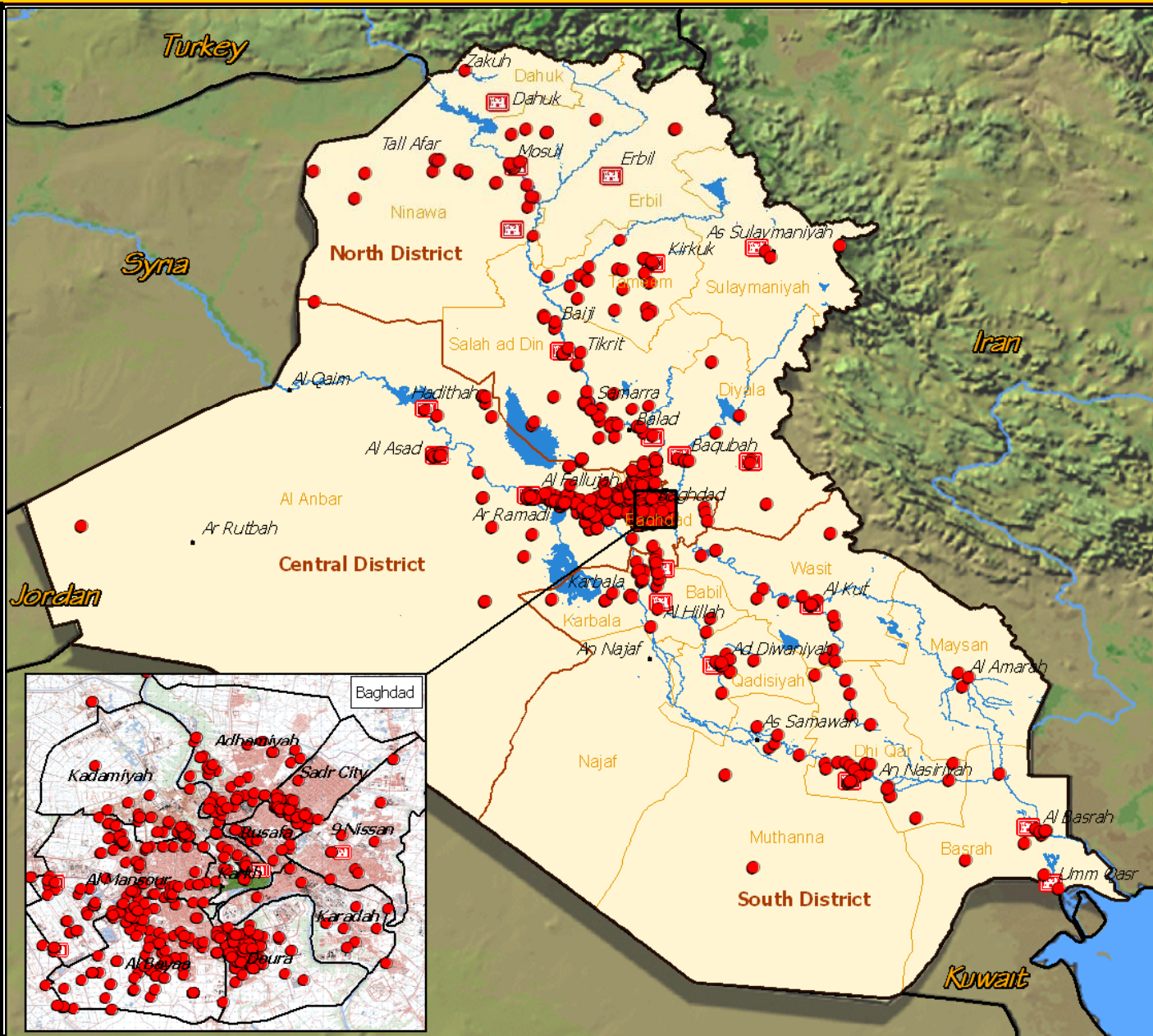


Iraq Reconstruction Projects



Planned
as of 01 DEC 08

Fund Type	Number of Projects	Cost
IRRF	10	\$17.3M
DFI	0	\$0.0M
CERP	1015	\$210.0M
ISFF	70	\$324.9M
ESF	38	\$130.8M
OMA	4	\$3.8M
MILCON	43	\$456.9M
OTHER	23	\$34.2M
TOTAL	1203	\$1,177.9M





Execution by Funding Type



<p>Iraq Relief and Reconstruction Fund (IRRF)</p>	<p>Economic Support Fund (ESF)</p>	<p>Commanders Emergency Response Program (CERP & I-CERP)</p>
<p><i>Authorized by Congress in 2003 to jumpstart the rebuilding and reform processes in Iraq; funded projects in security, infrastructure, democracy programs, health, education, and other reconstruction</i> \$12.8B to date</p>	<p><i>Designed to further support Iraq's reconstruction; used for sustaining infrastructure; political and economic programs, strengthening democracy and civil society, private sector and agricultural development, and ensuring the rule of law; support for the regional Crimes Liaison Office</i> \$1.3B to date</p>	<p><i>Enables Commanders to apply GoI (ICERP) and USG (CERP) funds toward urgent humanitarian relief, infrastructure projects and economic development initiatives across fifteen provinces to exclude the Kurdish Region. To date total funds received are \$426.7M CERP and \$9.8M ICERP with anticipated program amounts of \$590 CERP and \$270M ICERP</i></p>
<p>Iraq Security Forces Fund (ISFF)</p>	<p>Global War on Terror (GWOT)</p>	<p>Other</p>
<p><i>Authorized to fund training, equipment, life support, and sustainment of Iraqi Security Forces; can be used for construction, force protection, training, equipment, and sustainment</i> \$728.3M to date</p>	<p><i>Provide resources required to support the operational requirements of the GRD HQs which includes personnel, deployment costs, a portion of the Logistics Directorate operation, and life support and security for the Division and Districts</i> \$2.1B to date</p>	<p><i>Includes CHRRP, DOJ, DONOR, DOS, INL, OHDACA, and USAID</i> \$622.2M to date</p>
<p>Operations & Maintenance, Army (OMA)</p>	<p>Military Construction (MILCON)</p>	<p>Foreign Military Sales (FMS)</p>
<p><i>To provide resources required to conduct and sustain combat operations up to \$750k; with LHS approval up to \$1.5M; with CCA approval > \$1.5M</i> \$1.1B to date</p>	<p><i>Avenue to execute infrastructure improvements supporting OIF operations; to fund major construction projects greater than \$1.5M</i> \$1.1B to date</p>	<p><i>Funding provided through the Foreign Military Financing via letters of offer and acceptance (LOAs) between the US Government and purchasing countries.</i> \$50.9M to date with a total anticipated amount of \$1.8B</p>



Type of Work



IRRF, ESF, ISP, CERP, ISFF

Reconstruction	Non-Construction	Operations and Maintenance
<i>Construction projects used to improve and repair the infrastructure of Iraq</i>	<i>Procurement of materials such as vehicles, weapons, medical equipment, supplies, etc.</i>	<i>Assist in sustaining essential service infrastructure by providing in-plant services, consumables, and spare parts at major facilities and plants</i>
Capacity Development	Materials and Services in Support of Reconstruction	Subordinate Project, Phase, Activity
<i>A broad range of activities to train, equip, and prepare individuals to accept, budget for, manage, operate, and maintain new or reconstructed infrastructure facilities on a sustainable basis</i>	<i>Materials and services that directly support a reconstruction project, such as supplies and equipment</i>	<i>Indicates additional work for an existing reconstruction project, either as a separate phase, additional utilities work, etc.</i>

Not MILCON, CCA, FMS



Electricity Reconstruction Overview



Qudas -Unit 9 auxiliary package alignment final adjustments

There are 3 generation projects valued at \$223.5M as of 5 Dec 08. The forecasted completion date of all generation work is Mar 09. The Qudas Power Plant Expansion will be the last to complete.



Mullah Unit one

The Qudas Power Plant Expansion will strengthen the Baghdad Ring and serve 180,000 - 235,000 homes. The contractor is striving to provide power to the grid with one GTG operating on distillate fuel by end of CY08 & with the second GTG in same status by Jan 09.



Qudas - Gas Turbine Generator #9

There are 8 transmission projects in progress valued at \$151.1M as of 5 Dec 08. The forecasted completion date of transmission work is 30 Sep 09. The Ghammas Substation will be the last to complete.



Transmission

Work is now completed connecting 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)	17 Iraq 18 Baghdad (1-30 Nov)	0 Iraq 0 Baghdad
Peak Daily Generation (MW) Pre-war 4,300 MW	6,000 (US)	Peak: 5,454 ^{22 Nov} AVG: 4,176 (1-30 Nov)	546
U.S. Contribution (MW) (Added and Restored)	2,659 (US) 2,160 (GRD)	1,889	271
Transmission (substations) - No. of 132/400kV	43 (GRD)	36	7
Distribution (substations) - No. New/Res. 33/11kV Substations	126 (US) 89 (GRD)	87	2

Data date: 05 Dec 08



Distribution



Oil Reconstruction Overview



LPG Plant



The Bayji Oil Refinery provides refined oil products

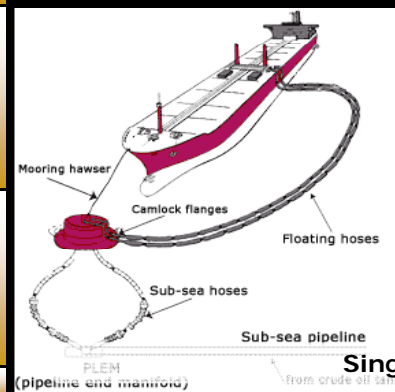
World Bank Estimate: \$8B U.S. Contribution: \$1.7B

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: 05 Dec 08



Southern Export Redundancy Project



Single Point Mooring



Facilities Reconstruction Overview

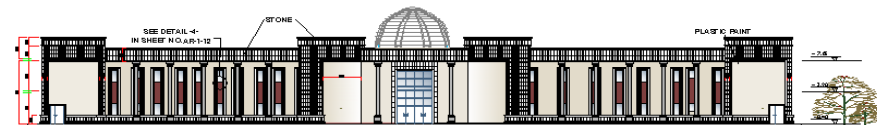


Sirchinar (SU07) PHC

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 1 NCMC Bldg	Al Mamoon Switch Bldg
Security Fire stations to serve 22.8M Improve AFRN to serve 16M	6 Training Academy Police Stations 93 Fire Stations 114 Border Forts 5 Points of Entry 3 Advanced First Responder Networks	None
Justice Renovate/Build 39 Courthouse projects at 33 courts	37 Courthouses 5 Witness Protection 6 Prison Facilities 1 Secure Doc Storage Fac.	2 Courthouses 1 Correctional Facility
Health Restore Hospitals to treat 15,000 patients per day Build PHCs to treat 8,000 patients per day	19 Hospital Projects 131 PHCs (construction complete)	1 Hospital Renovation 2 Elevator Projects 2 PHCs Basrah Children's Hospital Health & Sciences Academy
Transportation 607 km of road & 5 bridges Restore the Port Facility	107 Railway Station Renovations 18 Aviation Projects 8 Port Projects 95 Road Projects	1 Aviation Projects 3 Bridge Projects 3 Road Projects & 3 Expressway Project
Education & Buildings Improve school facilities for 324,000 students	809 School Projects 6 Gov't Building Projects	None

Data date: 04 Dec 08

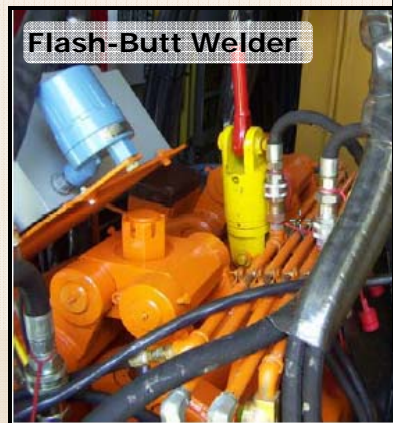


FRONT ELEVATION



Hillah Courthouse

Hillah Courthouse: \$6.9M, 64% Complete. The project will provide a courthouse that will symbolize a good and fair Justice System for over 5,000,000 residents of the Babil Province and the South-Eastern Region.



Flash-Butt Welder



Truck for Flash-Butt Welder

3 Truck Mounted Flash-Butt Welders and 2 160-Ton Rail Pullers arrived at the Umm Qsar Warehouse. The trucks arrived with accessories and English owner/operator manuals. The Rail Pullers also came with the road triangles and the tow attachment.



Water Reconstruction Overview

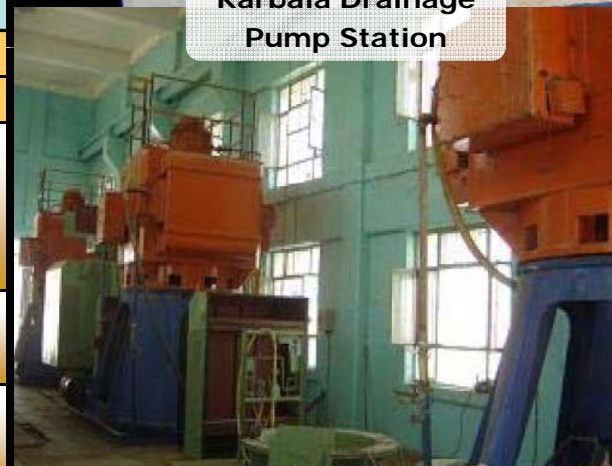


Karkh Water Treatment Plant



Karbala Drainage Pump Station

World Bank Estimate: \$14.4B		U.S. Contribution: \$2.4B	
Program	End State (\$2.4B)	GRD IRRF (\$1.7B)	
		Achieved	Remaining
Potable Water <i>Added Capacity</i>	2.4 Million m ³ /day (US Total) 1.1 Million m ³ /day (GRD Portion)	1.0 Million m ³ /day	0.1 Million m ³ /day
Potable Water <i>People Affected</i>	8.4 Million (US Total) 5.2 Million (GRD Portion)	4.8 Million	0.4 Million
Sewerage <i>Added Capacity</i>	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 <i>People Affected</i>	5.3 Million (US Total) 228 k (GRD Portion)	0	228 k
Canals, Dams, and Barrages	2	2	0
Irrigated Land <i>Added Area</i>	387 k ha	109 k ha	278 k ha
Data date: 04 Dec 08			



Two 13,680m³/hr pumps (picture above) are in transit through South Africa to the Karbala Drainage Pump Station (picture to the left) located in Iraq's south-central Karbala governorate. The pump station has a design capacity of 54,720m³/hr, and is currently pumping 41,040m³/hr with three pumps operating and two in standby. The new pumps are spares to be utilized as needed.



Sadr City R3 WTP

The Sadr City R3 WTP Project is complete with the exception of a couple outstanding punchlist items. The BWA is currently operating the plant at full capacity (96,000 m³/day) with the support of a USG funded Advise and Assist team that provides O&M assistance as needed. The picture to the left depicts plant staff receiving on-the-job training in the proper use of self-contained breathing apparatuses.



Military Programs Overview



Umm Qasr Pier Site



Trash Incinerator Facility VBC

PROGRAMS	FY 05 - 07		FY 08		FY 09 Planned		FY 10 Planned		Totals	
	No. of Projects	Cost	No. of Projects	Cost	No. of Projects	Cost	No. of Projects	Cost	No. of Projects	Cost
CCA	15	\$186.5M	3	\$111.1M	1	\$20.0M	NA	\$ -	19	\$317.6M
MILCON	16	\$209.8M	36	\$388.0M	6	\$141.7M	NA	\$ -	58	\$739.5M
FMS	NA	\$ -	2	\$52.7M	23	\$2437.5M	NA	\$ -	25	\$2,490.2M
FAA	NA	\$ -	NA	\$ -	1	\$60.0M	NA	\$ -	1	\$60.0M
DoS	2	\$26.8M	3	\$205.3M	NA	\$ -	NA	\$ -	5	\$232.1M
TOTAL	33	\$423.1M	44	\$757.1M	31	\$2659.2M	NA	\$ -	108	\$3,839.4M

Data Date: 05 Nov 08



Entry Control Point 14, VBC



Taji TIFRC Construction Site



Capacity Development



Energy Fusion Cell (EFC)

- Interacts with CoR, MoI, MoD, ME & MoO
 - To develop hydrocarbon and energy legislation
 - To assist in prioritizing budgets and plans for electrical grid and oil pipeline infrastructure
 - Coordinate security of energy infrastructure
- Track, coordinate, and synchronize the repair of electrical and oil generation, distribution, and transmission systems



Provincial Reconstruction Development Council (PRDC)

- PRDC Program Intent
 - Designed to strengthen Iraqi Provincial Governments
 - Develop ability to deliver essential services to communities
 - Funds "allocated" to Provincial Government



Ministry Relations

- Ministry of Municipalities and Public Works
- Ministry of Water Resources
- Ministry of Construction and Housing w/ CJ9
- Ministries of Oil and Electricity (w/EFC)

Joint Reconstruction Operations Center (JROC)

- Host and coordinate meetings between Baghdad Provincial Council, Baghdad Governor, Baghdad Amanat, and Coalition Forces
- Track, coordinate, integrate, de-conflict and report execution of GoI and CF essential services projects in support of the Baghdad Security Plan
- Transition to MND-B





Gulf Region Division

U.S. Army Corps of Engineers



Questions ?



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