



Republic Of IRAQ Ministry Of Electricity

Planning and Studies Office

Future Power Plant Projects

- Converting Gas Turbine Power Plants to Combined Cycle •
- And Solar Energy Power Plants •

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Al-Amarh Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Al-Amarh Gas Power Plant to Combined Cycle $(4*125)+250 = 750$ GPS N : 31°41'47.20" E : 47°15'23.46" Fuel Type : LDO/NG
Turbine GE Frame 9 South of Iraq – Amarah City Iraq_BaseMap.jpg	The project should be completed no later than 2018 Contractor carry out O&M for simple Cycle 4*125 and <u>add combined cycle 250 MW</u> <u>Total 750 MW</u>	250	

Khor Al Zubair Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Khor Al Zubair Gas Power Plant to Combined Cycle $(2*125)+125 = 375$ MW
Turbine GE Frame 9 South of Iraq – Basra City Iraq_BaseMap.jpg	The project should be completed no later than 2018 Contractor carry out O&M for simple Cycle 2*125 and <u>add combined cycle 125</u> <u>MW</u> <u>Total 375MW</u>	125	$N : 30^{\circ}12'41.8''$ $E : 47^{\circ}48'54.78''$ Fuel Type : NG

AL-Sadr 1 - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Al- Sadr Gas Power Plant/1 to Combined Cycle (2*160)+160) = 480MW
Turbine : Siemens Middle of Iraq East of Baghdad Iraq_BaseMap.jpg	The project should be completed no later than 2018 Contractor carry out O&M for simple Cycle 2*160 MW and <u>add</u> <u>combined cycle 160 MW</u> <u>Total 480MW</u>	160	N : 33°25'5.2" E : 44°27'44.3" Fuel Type : LDO/NG

AL-Sadr 2 - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	<p style="text-align: center;">Converting Al- Sadr Gas Power Plant/2 to Combined Cycle $(2*169)+169 =$ 507MW</p> <p>N : 33°24'56.8" E : 44°27'55.4"</p> <p>Fuel Type : LDO/NG</p>
<p>Turbine : Siemens</p> <p>Middle of Iraq East of Baghdad</p> <p>Iraq_BaseMap.jpg</p>	<p>The project should be completed no later than 2018</p> <p>Contractor carry out O&M for simple Cycle 2*169 MW and <u>add combined cycle 169 MW</u></p> <p><u>Total 507MW</u></p>	<p>169</p>	

AL-Quds - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Al-Quds Gas Power Plant to Combined Cycle $(4*125)+250) =$ 750
Turbine: GE Frame 9 Middle of Iraq – East of Baghdad Iraq_BaseMap.jpg	The project should be completed no later than 2018 Contractor carry out O&M for simple Cycle 4*125 MW and <u>add combined cycle 250 MW</u> <u>Total 750MW</u>	250	N : 33°29'26.56" E : 44°21'16.54" Fuel Type : LDO/NG/CO

Al- Najaf - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Al- Najaf Gas Power Plant to Combined Cycle $(2*125)+125) = 375$
Turbine : GE Frame 9 NAJAF City – Middle Euphrates Iraq_BaseMap.jpg	The project should be completed no later than 2018 Contractor carry out O&M for simple Cycle 2*125 MW and <u>add combined cycle 125 MW</u> <u>Total 375 MW</u>	125	N : 32°'38'.49" E : 44°22'58.16" Fuel Type : LDO/NG/CO

Al- Hillah - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Al- Hillah Gas Power Plant to Combined Cycle $(2*125)+125 = 375$
Turbine : GE Frame 9 BABIL City Iraq_BaseMap.jpg	The project should be completed no later than 2018 Contractor carry out O&M for simple Cycle 2*125 MW and <u>add combined cycle 125 MW</u> <u>Total 375 MW</u>	125	N : 32°32'38.8" E : 44°19'24.2" Fuel Type : LDO/NG/HFO

Karbala - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Karbala Gas Power Plant to Combined Cycle $(2*125)+125) =$ 375 MW
Turbine : GE Frame 9 KARBALA City Iraq_BaseMap.jpg	The project should be completed no later than 2018 Contractor carry out O&M for simple Cycle 2*125 MW and <u>add combined cycle 125 MW</u> <u>Total 375 MW</u>	125	N : 32°26'18.6" E : 44°07'43.2" Fuel Type : LDO/NG/CO

Al – Haydariyah 1 - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Al – Haydariyah Gas Power Plant/ 1 to Combined Cycle $(4*125)+250) = 750$
Turbine : GE Frame 9 AL-NAJAF City Iraq_BaseMap.jpg	The project should be completed no later than 2018 Contractor carry out O&M for simple Cycle 4*125 MW and <u>add combined cycle 250 MW</u> <u>Total 750 MW</u>	250	N : 32°14'13.6" E : 44°16'8.0" Fuel Type : LDO/NG/HFO

Al- Diwaniyah - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Al- Diwaniyah Gas Power Plant to Combined Cycle (4*125)+250) = 750
Turbine : GE Frame 9 DIWANIYAH City South of Iraq Iraq_BaseMap.jpg	The project should be completed no later than 2018 Contractor carry out O&M for simple Cycle 4*125 MW and <u>add combined cycle 250 MW</u> <u>Total 750 MW</u>	250	N : 31°58'35.11" E : 44°41'31.72" Fuel Type : LDO/NG

South Baghdad 1 - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting South Baghdad Gas Power Plant/1 to Combined Cycle $(2*125)+125 = 375$
Turbine : GE Frame 9 BAGHDAD City Iraq_BaseMap.jpg	The project should be completed no later than 2018 Contractor carry out O&M for simple Cycle 2*125 MW and <u>add combined cycle 125 MW</u> <u>Total 375 MW</u>	125	N : 33°06'00.30" E : 44°41'31.72" Fuel Type : HFO

Al- Mansuriya - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	
<p>Turbine : ALSTOM</p> <p>DYALA City East of Iraq</p> <p>Iraq_BaseMap.jpg</p>	<p>The project should be completed no later than 2018</p> <p>Contractor carry out O&M for simple Cycle 4*182 MW and <u>add combined cycle 364 MW</u></p> <p><u>Total 1092 MW</u></p>	<p>364</p>	<p>Converting Al- Mansuriya Gas Power Plant/2 to Combined Cycle (4*182)+364)</p> <p>E : 34°08'32" N : 44°56'14"</p> <p>Fuel Type : NG</p>

Kirkuk- Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Kirkuk Gas Power Plant to Combined Cycle (265+292)+278
Turbine : Siemens KIRKUK – North of Iraq Iraq_BaseMap.jpg	The project should be completed no later than 2018 Contractor carry out O&M for simple Cycle 265+292=557 MW and <u>add combined cycle 278 MW</u> <u>Total 835 MW</u>	278	E : 35°19'50.76" N : 44°19'19.25" Fuel Type : NG

Dibis- Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Dibis Gas Power Plant to Combined Cycle $(2*169)+169)=507$
Turbine : Siemens KIRKUK North of Iraq <b style="color: red;">Bad Security Situation	Contractor carry out O&M for simple Cycle 2*169 MW and <u>add combined cycle 169 MW</u> <u>Total 507 MW</u>	169	E : 35°40'52.6" N : 44°3'47.8" Fuel Type: LDO/NG/HFO Iraq_BaseMap.jpg

Okaz - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Okaz Gas Power Plant to Combined Cycle (2*125)+125) = 375
Turbine : GE Frame 9 Al-ANBAR – West of Iraq <b style="color: red;">Bad Security Situation	Contractor carry out O&M for simple Cycle 2*125 MW and <u>add combined cycle 125 MW</u> <u>Total 375 MW</u>	125	E : 34°16' 16.0" N : 41°7' 54.0" Fuel Type : LDO/NG Iraq_BaseMap.jpg

Al- Qayyarah - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	<p>Converting Al- Qayyarah Gas Power Plant to Combined Cycle (6*125)+375)</p>
<p>Turbine : GE Frame 9</p> <p>Nineveh City – North of Iraq</p> <p>Bad Security Situation</p>	<p>Contractor carry out O&M for simple Cycle 6*125 MW and <u>add combined cycle 375 MW</u></p> <p><u>Total 1125 MW</u></p>	<p>375</p>	<p>E : 35°46'51.10''</p> <p>N : 43°15'00.45''</p> <p>Fuel Type: LDO/NG/HFO</p> <p>Iraq_BaseMap.jpg</p>

Baiji - Gas Power Plant

Remarks	Execution years	Capacity to be added (MW)	Converting Baiji Gas Power Plant to Combined Cycle (6*169)+507
<p>Turbine : Siemens</p> <p>SALADIN City – North of Iraq</p> <p>Bad Security Situation</p>	<p>Contractor carry out O&M for simple Cycle 6*169MW and <u>add combined cycle 507 MW</u></p> <p><u>Total 1521 MW</u></p>	<p>507</p>	<p>E : 35°1'27.2" N : 43°27'2.1"</p> <p>Fuel Type: LDO/NG/HFO</p> <p>Iraq_BaseMap.jpg</p>

SOLAR (PV) POWER PLANTS



Solar Photovoltaic (PV) projects sites information

	Suggested site.	Governorate.	Nearest station 132 kV	Voltage level (kV)	Extension line length (km)*	Available power (MW)	GPS	
1	Sawa-1 (has been assigned)	Muthanna	Sawa	33	4	30	499038 499090 500017 499975	3459463 3458795 3458870 3459536
2	Sawa-2 (has been assigned)	Muthanna	Sawa	132	1	50	498303 499767 497735 499149	3455830 3455139 3455449 3454699
3	Haydariya	Najaf	Haydariya Jawahiry	132	4.5	100	32.152695 32.152874 32.146380 32.146559	44.193233 44.221863 44.193289 44.221416
4	Iskandariya	Babil	Iskandariya Lattifiya	132	0.5	150	425936 433020 428225 432927	3647127 3642547 3644921 3644450
5	Jissan	Wassit	Jissan	132	0.5	50	575948 576869 577258 576336	3662338 3662727 3661805 3661417

6	Sheikh sa'ad	Wassit	Sheikh sa'ad	132	0.25	50	618143 618977 618411 617570	3607396 3606854 3606029 3606574
7	Diyala university	Diyala	Ba'quba south	33		15	To be determind	
8	Abu ghraib	Baghdad	Agargoff	132	3	30	3687950 3687875 3688300 3688150	427200 428050 428000 427250
9	Haditha-1	Anbar	Mukhliss kafi Heet	132	0.25	40	33592851 33590265 33592761 33594904	42244158 42241201 42235437 4224194
10	Ramadi	Anbar	Ramadi east	132	13	100	353926 351927 351937 353937	3712126 3712163 3713413 3713376
11	A'miriyat Alfaluja	Anbar	Habbaniya	132	5	100	388463 387463 387463 388463	3670125 3670125 3670875 3670875

12	Heet	Anbar	Heet	132	2 teal overhead circuits.	100	427842 427442 427408 427468	336550 336421 336633 336810
13	Haditha-2	Anbar	New haditha	132	2 (1x800mm2) underground cables.	50	3779285 3779637	0254251 0253397
14	Rutba	Anbar	Rutba	132	2 teal overhead circuits.	50	Lat N 33° 2'48.54" Lon E 40° 15' 5.17"	
15	Faluja	Anbar	Faluja cement	132	2 (1x800mm2) underground cables.	40	396118 395711 395156 394968 395982	3692326 3692371 3692613 3693588 3692842