Egypt - Wind Power Development Project (P113416)

**Key Dates**

**Key Project Dates**
- Bank Approval Date: 15-Jun-2010
- Effectiveness Date: 14-Aug-2011
- Planned Mid Term Review Date: 27-Mar-2016
- Actual Mid-Term Review Date: 16-Mar-2016
- Original Closing Date: 31-Dec-2015
- Revised Closing Date: 30-Jun-2019

**Project Development Objectives**

Project Development Objective (from Project Appraisal Document)

The project development objective is to develop infrastructure and business models for scaling-up wind power in Egypt.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

Yes

Board Approved Revised Project Development Objective (If project is formally restructured)

The project development objective is to develop business models and required transmission facilities for scaling-up wind power in Egypt, and increase transmission capacity in targeted areas.

**Components**

Name
- Transmission Infrastructure:(Cost $70.00 M)
- Technical Assistance to support the expansion of Egypt's wind generation program:(Cost $1.75 M)
- Gulf of Suez 250 MW BOO Project

**Overall Ratings**

<table>
<thead>
<tr>
<th>Name</th>
<th>Previous Rating</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progress towards achievement of PDO</td>
<td>• Moderately Satisfactory</td>
<td>• Moderately Satisfactory</td>
</tr>
<tr>
<td>Overall Implementation Progress (IP)</td>
<td>• Moderately Satisfactory</td>
<td>• Moderately Satisfactory</td>
</tr>
<tr>
<td>Overall Risk Rating</td>
<td>• Substantial</td>
<td>• Substantial</td>
</tr>
</tbody>
</table>
Implementation Status and Key Decisions

Project relevance. The project development objective remains relevant due to the need for increased transmission capacities to scale-up renewable energy development in Egypt.

Overall Project Implementation: The project progress towards achieving its Development Objective is rated Moderately Satisfactory. Progress of the main components is as follows: (i) construction of the Suez Gulf/Samalaut 500 kV transmission line is complete; and (ii) The Project Agreements for the 250 Wind BOO were signed on October 31, 2017 following attainment of all the Conditions Precedent including Finance Close.

Risks

Systematic Operations Risk-rating Tool

<table>
<thead>
<tr>
<th>Risk Category</th>
<th>Rating at Approval</th>
<th>Previous Rating</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political and Governance</td>
<td>--</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>Macroeconomic</td>
<td>--</td>
<td>Substantial</td>
<td>Substantial</td>
</tr>
<tr>
<td>Sector Strategies and Policies</td>
<td>--</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>Technical Design of Project or Program</td>
<td>--</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>Institutional Capacity for Implementation and Sustainability</td>
<td>--</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Fiduciary</td>
<td>--</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>Environment and Social</td>
<td>--</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>Stakeholders</td>
<td>--</td>
<td>Moderate</td>
<td>Moderate</td>
</tr>
<tr>
<td>Other</td>
<td>--</td>
<td>High</td>
<td>Moderate</td>
</tr>
<tr>
<td>Overall</td>
<td>--</td>
<td>Substantial</td>
<td>Substantial</td>
</tr>
</tbody>
</table>

Results

Project Development Objective Indicators

- Increase in transmission infrastructure capacity to evacuate 3,000 MW of wind power (Gigawatt, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>1.50</td>
<td>1.50</td>
<td>3.00</td>
</tr>
</tbody>
</table>

Comments
Construction progress of the main transmission line (the Suez Gulf/Samalaut 500 kV), which accounts for about 40% of the total infrastructure, is completed. Additional contracts totaling about US$54.0 million have been signed.
### Financial close of first private sector investment in wind power (250MW) (Yes/No, Custom)

<table>
<thead>
<tr>
<th>Value</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>

**Date**

- 15-Sep-2010
- 31-Oct-2017
- 17-May-2018
- 30-Jun-2019

**Comments**

The Project Agreements were signed October 31, 2017 following attainment of all Conditions Precedent including Finance Close. The project implementation is expected to take 18-24 months. The project structuring and contract documents developed with the support of the project have created further interest in the Egypt wind development; additional proposals for a combined capacity of about 570MW have been submitted for consideration, accepting the same terms and conditions.

### Projected GHG emission (MT annually) reductions from 750MW of new wind capacity (Metric ton, Custom)

<table>
<thead>
<tr>
<th>Value</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.38</td>
<td>0.38</td>
<td>0.38</td>
<td>0.82</td>
</tr>
</tbody>
</table>

**Date**

- 15-Sep-2010
- 30-Oct-2017
- 17-May-2018
- 30-Jun-2019

**Comments**

No new RE capacity has been commissioned under the project.

### Direct project beneficiaries (Number, Custom)

<table>
<thead>
<tr>
<th>Value</th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>1,466,422.00</td>
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</tbody>
</table>
### Female beneficiaries (Percentage, Custom Supplement)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>49.00</td>
</tr>
</tbody>
</table>

### Overall Comments


### Intermediate Results Indicators

#### Conctruct 500 kV transmission line from Suez Gulf to Samallout (Percentage, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

**Comments**

Line construction completed March 2017.
### Install a new 500kV/220kV transformer at Samallout (Percentage, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>100.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Comments
- Substation construction completed.

### Construct 220KV transmission line from Ras Gharib to Gabel El-Zait (Percentage, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>10.00</td>
<td>10.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Comments

### Construct 220 kV transmission line from North Hurghada to El-Qusair (Percentage, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>10.00</td>
<td>10.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Comments
### Transmission lines constructed or rehabilitated under the project (Kilometers, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>280.00</td>
<td>280.00</td>
<td>429.00</td>
</tr>
</tbody>
</table>

Comments
Contract for the supply of additional line materials signed 10-May-18.

### Bid Document for first BOO developed (Yes/No, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Date</td>
<td>15-Sep-2010</td>
<td>06-Jun-2017</td>
<td>17-May-2018</td>
<td>30-Jun-2019</td>
</tr>
</tbody>
</table>

Comments
Completed.

### Procedures developed for wind power integration by system operator (Yes/No, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Date</td>
<td>15-Sep-2010</td>
<td>06-Jun-2017</td>
<td>17-May-2018</td>
<td>30-Jun-2019</td>
</tr>
</tbody>
</table>

Comments
Completed.
### Displacement of Diesel Generation (Gigawatt-hour (GWh), Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>87.60</td>
</tr>
</tbody>
</table>

**Comments**
No new Wind based generation has been commissioned to date.

### Progress in implementing 750MW Wind Power Competitive Bidding Program (Percentage, Custom)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
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</thead>
<tbody>
<tr>
<td>Value</td>
<td>0.00</td>
<td>105.00</td>
<td>105.00</td>
<td>100.00</td>
</tr>
<tr>
<td>Date</td>
<td>15-Sep-2010</td>
<td>03-Nov-2017</td>
<td>17-May-2018</td>
<td>30-Jun-2019</td>
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</tbody>
</table>

**Comments**
Completed with Finance Close.

### Grievance Redress Mechanism In-place (Yes/No, Custom)

<table>
<thead>
<tr>
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<th>Baseline</th>
<th>Actual (Previous)</th>
<th>Actual (Current)</th>
<th>End Target</th>
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</thead>
<tbody>
<tr>
<td>Value</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Date</td>
<td>15-Sep-2010</td>
<td>03-Nov-2017</td>
<td>17-May-2018</td>
<td>30-Jun-2019</td>
</tr>
</tbody>
</table>

**Comments**
This was put in place for the construction of the 280km,500KV Ras Gharib-Samalaut transmission line.

**Overall Comments**
Data on Financial Performance

Disbursements (by loan)

<table>
<thead>
<tr>
<th>Project</th>
<th>Loan/Credit/TF</th>
<th>Status</th>
<th>Currency</th>
<th>Original</th>
<th>Revised</th>
<th>Cancelled</th>
<th>Disbursed</th>
<th>Undisbursed</th>
<th>Disbursed</th>
</tr>
</thead>
<tbody>
<tr>
<td>P113416</td>
<td>IBRD-79270</td>
<td>Effective</td>
<td>USD</td>
<td>70.00</td>
<td>70.00</td>
<td>0.00</td>
<td>26.28</td>
<td>43.72</td>
<td>38%</td>
</tr>
<tr>
<td>P113416</td>
<td>TF-95224</td>
<td>Closed</td>
<td>USD</td>
<td>0.49</td>
<td>0.49</td>
<td>0.00</td>
<td>0.49</td>
<td>0.00</td>
<td>100%</td>
</tr>
<tr>
<td>P113416</td>
<td>TF-96929</td>
<td>Effective</td>
<td>USD</td>
<td>0.25</td>
<td>0.25</td>
<td>0.00</td>
<td>0.00</td>
<td>0.25</td>
<td>0%</td>
</tr>
<tr>
<td>P113416</td>
<td>TF-96930</td>
<td>Effective</td>
<td>USD</td>
<td>149.75</td>
<td>149.75</td>
<td>0.00</td>
<td>57.12</td>
<td>92.63</td>
<td>38%</td>
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</tbody>
</table>

Key Dates (by loan)

<table>
<thead>
<tr>
<th>Project</th>
<th>Loan/Credit/TF</th>
<th>Status</th>
<th>Approval Date</th>
<th>Signing Date</th>
<th>Effectiveness Date</th>
<th>Orig. Closing Date</th>
<th>Rev. Closing Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>P113416</td>
<td>TF-95224</td>
<td>Closed</td>
<td>03-Jan-2010</td>
<td>04-Jan-2010</td>
<td>04-Jan-2010</td>
<td>30-Jun-2011</td>
<td>30-Jun-2012</td>
</tr>
</tbody>
</table>

Cumulative Disbursements
Restructuring History

Level 1 Approved on 10-Jul-2014, Level 2 Approved on 20-Dec-2017

Related Project(s)

There are no related projects.