



Arab Republic of Egypt

Program for Improving Energy Efficiency in street lighting & Building

About 42% of the electricity used in residential and commercial sector, 35% of the total consumption of this sectors used in lighting and so it was imperative to provide power to adopt a plan using efficient bulbs, which can provide up to 80% of the consumption of incandescent bulbs.

Ministry of Electricity and Renewable energy start a program on December, 2013 for illuminating the governmental building by solar power to provide 14% of the total energy consumed, and not to total reliance on fossil fuel, This program targets improving energy efficiency in street Lighting, Governmental buildings, Public utilities and Residential sector. It is planned to include 3 stages from 2014 to 2016, the first stage targets replacement by 1 million efficient bulbs and expected to achieve emission reduction of 246.15 Kt CO₂e.

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| GHG Covered | CO ₂ |
| Implementing & Coordinating Agencies | <ul style="list-style-type: none"> Ministry of Electricity and Renewable Energy. Ministry of Local Development. Ministry of Environment. |
| Time frame for Implementation | <p>3 years on 3 stages as follows</p> <ul style="list-style-type: none"> 1st Stage: 1 year (January 2014-December 2014) 2nd Stage: 1 year (January 2015- December 2015) 3rd Stage: 1 year (January 2016- December 2016) |
| Estimated full cost of Implementation | The total cost of the program is around 103 Million \$, where a national contribution of 42 Million \$ has been allocated by the Ministry of Finance, so there is a need for international support and investment to cover the rest. |
| Expected Annual savings | <ul style="list-style-type: none"> Energy Savings: 1800 GWh Load Reduction: 450 MW Decrease of the Electricity Bill: 90MS Fuel Saving: 390 MTOE |
| Estimate of potential emissions reduction (ktCO₂eq/year) | <p>1st Stage: Replacement by 1 million efficient bulb lead to reduce:</p> <ul style="list-style-type: none"> around 450 GWh Around 246.15 Kt CO₂e. <p>2nd Stage: To be Calculated 3rd Stage: To be Calculated</p> |
| contribution to the country's sustainable development | <p>Environmental Benefits:</p> <ul style="list-style-type: none"> Reduction of GHGs especially CO₂. Air quality improvement. <p>Economic Benefits:</p> <ul style="list-style-type: none"> Conventional fuel consumed in Electricity generation. Reduced electricity bills. Open new market for manufacturing. Reduce the cost of daily operation and maintenance. Invest one time and earn return lifetime. <p>Social Benefits:</p> <ul style="list-style-type: none"> Expand the local manufacture. Provide training and Job opportunities. No impact of power outages on the street lighting. |
| Measurement, Reporting and Verification (MRV) Plan | <ul style="list-style-type: none"> Degree of coverage. Emission Reduction Reduced Electricity demand. Collection Percentage. Program Improvement opportunities. Number of manufacture. |
| Link to National Policies | <ul style="list-style-type: none"> National Energy Policy. Renewable Energy Plan Egypt's Supreme Energy Council Decisions. |



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