

Project Brief

Name of Project: “100MWp Solar Power Plant of Quaid-e-Azam Solar Power (Pvt.) Ltd at Quaid-e-Azam Solar Park, Cholistan, Bahawalpur”

Objectives: Establishment of 100MWp Solar Power Plant for generation of clean electricity for the people of Pakistan and participation in the global responsibility of improving the environment.

Date of Submission: April 29, 2015

Submitted by: Quaid-e-Azam Solar Power (Pvt.) Ltd

Project Sponsors: Government of the Punjab

Project Development Consultants: ILF Consulting Engineers (Pvt.) Ltd

Detail of Total Project Cost:

Cost	Price
Equipment/Service	
Cost of Power Plant (Million US \$)	131.15 million USD
Transportation from China (Million US \$)	
Transportation from Karachi Port to Pezu (Million US \$)	
Duties and Taxes (Million US \$)	
Civil Works (Million US \$)	
Local Fabrication (Million US \$)	
Total Project Investment (Million US \$)	152.69 million USD
Total Project Investment (Million PKR)	15,093.80 million PKR

Estimated Emission Reduction:

Source Tons of CO₂eq/ yr

Emission Reduction Calculation 90,570

Total Annual Reduction: **90,570**

Operational Lifetime: 25 years

Starting/Commissioning Date: April 21, 2014 / Commissioning date is not yet finalized

Crediting/Validity Period:

- Kyoto first commitment period: 2008-12
- Estimated validity period (Including Post Kyoto period): 21 years (7 years renewable)

Economic Viability of the Project:

Internal Rate of Return (IRR):

Without CDM benefits: 17.16 %

With CDM benefits: 17.26 %

Benefits from the Project:

Activity	Revenue (US\$ Million/Year)
Sale of Carbon Credits (@ US \$/tones of CO _{2eq}):	0.54
Total estimated annual revenue:	0.0489

Other Qualitative Benefits:

Being the first of its kind grid-connected utility scale solar power plant, this project shows commitment of the Government of the Punjab to the global environmental protection. At the moment, Pakistan is considered to be a very risky geographical region for investment in renewables and before this project, the country has not had a large-scale solar power plant injecting electricity into the national grid. Hence, a global recognition of this project as a green and CDM-registered project and its successful implementation would reduce the perception of technological and investment barriers and risks for renewable projects in Pakistan. Moreover, it would act as a catalyst to increasing investment in renewable energy projects in the future.