## **Concentrated Solar Power Project**

Country / Region: Chile | Project Id: PCTFCL201A | Fund Name: CTF |

**MDB : Inter-American Development Bank** 

Comment Type	Commenter Name	Commenter Profile	Comment	Date
Comment 1	Simon Ratcliffe	United Kingdom	Dear Patricia, The UK is happy to approve the above project. We would like to note that this is a project that meets the CTF aims in that it supports the deployment of a technology where we are off-track globally, according to the IEA's 2 degree scenarios. We would also like the project team to measure and monitor the jobs created through the project as one of the key developmental indicators.	Sep 11, 2012
Response 1	Claudio Alatorre	IDB	This question appears as unanswered. It was however answered during Q&A as follows: "We estimate that 50 permanent (during operation), and 500 temporary (during construction) direct jobs will be created. We will track both indicators (disaggregated by gender), and include them on the Performance Indicators Table. (In addition, as explained in the Investment Plan, the government will be tracking number of people trained, and number of companies, as proxy indicators for the impact of sustainable energy investments on job creation at the national scale.)"	May 30, 2017
Comment 2	Ina von Frantzius	Germany	Summary We welcome the project proposal and congratulate the government of Chile and the IDB for a well prepared document. The investment proposal rightly argues that the northern region of Chile has one of the highest solar irradiations worldwide. Ongoing irradiation measures conducted by the German development institution GIZ are confirming the high solar potential in this region. Furthermore, the proposal also rightly argues that CSP technology would be more suited than PV to supply the around-the-clock baseload power that is being demanded by the large industries in the SING, mainly the mining industry. 90% of electricity demand in the SING grid comes from large industries, mainly the mining sector. Therefore it is important to promote a solar technology in this region, which indeed can meet the energy demand of the main consumers adequately. We have some more detailed comments on which we would like to receive some clarification, and recommendations that could be taken into account within further project design. Additional comments regarding the project: Concessional funding from the CTF will cover up to 16 % of the investment needs of a project. USD 46M of the CTF financing will be subordinated to the IDB (eventually KfW and IFC) conditions, are certainly attractive to the private sector which has to overcome big administrative and institutional hurdles. There remains still a risk, that the provided financial package will not be sufficient to reduce the high capital costs of the CSP technology sufficiently. Comment 1: Figure 14 and 15 demonstrate the impact of concessional finance on the CSP power price. If the CTF ranches (senior and subordinated) will be priced and what happens, when the offered CTF will be priced at 1% they will have a significant impact on lowering the project and will have to be further analysed in the framework of the forthcoming feasibility of the project: 1. Availability of water required for the normal operation of the first CSP plant in Chile (compare p. 15ff). The proposal howe	Sep 11, 2012



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proposals in the public tendering process have to demonstrate. Comment 3: As there are rather substantial scale effects with the CSP technology we agree with the investment proposal that the target size of the plant should be at least 50MW, which is the minimum size currently seen as being economically viable. However, we would like to understand better, what would happen, if the winning bid would offer the construction of a plant that has less than 50MW in installed capacity. Comment 4: The investment proposal argues rightly, that CSP technology would be more suited than PV to supply the around-the-clock base-load power that is being demanded by the large industries in the SING. This however would require that sufficient thermal storage capacity is installed as well. We would recommend that there is a requirement for a minimum thermal storage capacity included in the public tendering of the CSP plant and would like to understand whether there exists such a requirement. Project risks: From the current perspective the mentioned risks indicated in Table 21 (page 29) are considered to be relevant. Furthermore from a current perspective there is a risk given, that the proposed bid does not meet the interests of project developers and investors, or that the project is not economically feasible despite favorable financial conditions. On the other hand, the project has long been known to specialized CSP companies and enjoys a high international interest. Also potential buyers in the mining sector have high interest.



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