



Industrie Service

TÜV SÜD Industrie Service GmbH · 80684 Munich · Germany

**Choose certainty.
Add value.**



DAP-PL-2885.99
DAP-IS-2886.00
DAP-PL-3089.00
DAP-PL-2722
DAP-IS-3516.01
DPT-ZE-3510.02
ZLS-ZE-219/99
ZLS-ZE-246/99

Your reference/letter of	Our reference/name	Tel. extension/E-mail	Fax extension	Date/Document	Page
	OG-API-CAN- TMS/ Olina	+86 20 3832-0668-310 olina.li@tuv-sud.cn	+86 20 3832-0478	2009-12-25	1 of 7

Dear Sir or Madam,

Please find below the response to the request for review formulated for the CDM project with the title “Shuanghekou 16.6MW Hydropower Project in Chongqing City, P.R. China”, with the registration number 2861. In case you have any further inquiries please let us know as we kindly assist you.

Best regards

Thomas Kleiser
Carbon Management Service

Headquarters: Munich
Trade Register: Munich HRB 96 869

Supervisory Board:
Dr.-Ing. Manfred Bayerlein (Chairman)
Board of Management:
Dr. Peter Langer (Spokesman)
Dipl.-Ing. (FH) Ferdinand Neuwieser

Telefon: +49 89 5791-3038
Telefax: +49 89 5791-2756
www.tuev-sued.de/is
TUV®

TÜV SÜD Industrie Service GmbH
Niederlassung München
Umwelt Service
Westendstrasse 199
80686 Munich
Germany



Industrie Service

Annexes:

Annex 1 – revised information reference list (IRL)

Response to the CDM Executive Board

Issue 1: *The DOE shall explain how it validated the “start date” of the project in accordance with the definition in the “Glossary of CDM terms”, in particular the date on which the project participant committed to non-minor expenditures (e.g. signing of contract for construction).*

Response from PP:

The “start date” of the project will be revised on Jan 16, 2007 when construction contract for diversion tunnel of Kai county Shuanghekou Hydropower station was signed, on which the project owner has committed to expenditures.

Response from TÜV SÜD:

During the validation of the proposed project, TÜV SÜD verified that the project starting date is 25 June 2007 which corresponds to the approval for the start of construction of the project activity (IRL 10).

It was validated according to the Para 67 of EB41 meeting report, the “Glossary of CDM terms” defines the start date of a CDM project activity as: “the earliest date at which either the implementation or construction or real action of a project activity begins.”

Considering the project starting date, TÜV SÜD validated the earliest of the dates for the project activity by verifying the following evidences:

June 25, 2007 (IRL 10)	Approval of Kai County Shuanghekou Hydropower Station Starting-work Construction (main construction started)
Dec. 18, 2007 (IRL 12)	Purchase contract of turbines and generators

In light of the timeline described above, TÜV SÜD validated the construction starting date was the earliest date.

But in accordance with the Glossary of CDM terms version 05 dated 19 August 2009, “the start date shall be considered to be the date on which the project participant has committed to expenditures related to the implementation or related to the construction of the project activity. This, for example, can be the date on which contracts have been signed for equipment or construction/operation services required for the project activity.” In the course of the preparations for this response to the request for review, it was clarified that the construction contract for diversion tunnel of Kai county Shuanghekou Hydropower station is dated Jan 16, 2007. As this date is prior to the construction approval, it re-

flects the earliest date of any real action with regard to the project implementation, Jan 16, 2007 is chosen as the project starting date. The construction contract for diversion tunnel of Kai county Shuanghekou Hydropower station was submitted to DOE by the project proponent, and verified by DOE (IRL 87). Therefore, the project starting date should be Jan 16, 2007 when construction contract for diversion tunnel of Kai county Shuanghekou Hydropower station was signed, on which the project owner has committed to expenditures.

Furthermore the DOE checked the contracts committed to non-minor expenditures (referring to the main contracts of Shuanghekou Project), the earlier contracts listed below,

Jan 16, 2007 (IRL 87)	Construction contract for diversion tunnel of Kai county Shuanghekou Hydropower station	9,500,000
Dec. 18, 2007 (IRL 12)	Purchase contract of turbines and generators of Chongqing city Kai county Shuanghekou hydro power station	18,750,000

The construction contract was agreed on 16 January 2007 but project owner waited for the approval of construction (IRL 10) without any work on the contract. That means the project owner started construction until getting the approval of construction (IRL 10). In light of the evidences provided and reviewed, TÜV SÜD was able to confirm that the definition of the start date for the proposed project of signing of contract for diversion tunnel (Jan 16, 2007) is well in accordance with the Glossary of CDM terms.

Issue 2: *The DOE shall further explain how it validated the suitability investment analysis input values in accordance with paragraphs 109 and 111 of the VVM, in particular the: (a) tariff by taking into account the tariffs of other hydropower plants in the region including projects 2782 and 2847; (b) total static investment by, among other things, further comparing it against contracts; and (c) coefficient of electricity and transmission losses.*

Response from PP:

(a) There are two kinds of Grid to purchase the electricity generated by power station in Chongqing City¹, one is the National Grid, the other is the Local Grid. The electricity generated by Shuanghekou Project will be connected to the National Grid. But the project 2782 “Chongqing Pengshui Longmenxia Hydropower Station Project” is connected to one of the Local Grid², Chongqing Wujiang Electric Power Grid. The local grid includes Qinjiang, Xiushan, Youyang and Pengshui Areas, which is independent and has its own tariff³. As much as to say, the electricity buyer is different between Project 2782 and the Shuanhekou Project, which results in different tariff.

For National Grid, the National Development and Reform Commission (NDRC) have publicized a rule, the Notice of Adjustment Electricity Tariff of CCPG by NDRC Fa Gai Jia Ge No. [2006] 1233⁴, that the basic electricity tariff of small scale hydropower station in Chongqing city is 0.205 Yuan/KWh. It is very popular for the small scale hydropower stations connected to National Grid in Chongqing City to get the basic tariff. The National Grid almost purchases the electricity with the basic tariff⁵.

The project 2847 is a large scale hydropower station with installed capacity of 96 MW, which means that it isn't the class of the Shuanghekou Project⁶. Besides, the project 2847 is a regulating hydropower station with the function of flood control and fish farming. The owner of the project 2847 is Chongqing Water Resources Investment Group Co., Ltd, which is a wholly state-owned company⁷. It means the project 2847 has the right to negotiate the tariff. Furthermore, the project 2847 is in the three Gorges

¹ <http://www.52data.cn/Article/dlzt/200702/12845.html>

² <http://www.qjgyxx.com/company.asp?id=25>

³ http://www.jda.cq.gov.cn/templet/default/search/xxwj_show.jsp?id=5446

⁴ http://www.gov.cn/gzdt/2006-07/01/content_325205.htm

⁵ http://jjckb.xinhuanet.com/cjxw/2008-12/23/content_134861.htm

⁶ http://www.sdpc.gov.cn/zcfb/zcfbtz/2009tz/t20091120_314530.htm

⁷ http://wgz.cq.gov.cn/news/show_content.asp?id=710&class=000100060003

Reservoir areas, where the hydropower plant can enjoy policy advantage of high tariff⁸. So the project 2847 is totally different from Shuanghekou Project and can get a higher tariff than the basic tariff. While, the Shuanghekou Project is just 16.6 MW and a run-of-river project, and owned by a private company. The Shuanghekou Project has no right to negotiate the tariff and can only accept the basic tariff of 0.205 Yuan/KWh⁹, which is one of the main reasons that the Shuanghekou station made a board decision to apply CDM. There is another small scale hydropower station in the same Town and electricity buyer---Chongqing city Kai County power Co., Ltd. as Shuanghekou Project and the tariff of the project is only 0.191 Yuan/kWh for excluding VAT and 0.203 Yuan/kWh for including VAT on July 11th, 2008¹⁰.

Besides, the registered project 1537“ Jielong Cascade Small-Scale Hydropower Project“ and 2738 “ Ping An Yiji 6MW Hydropower Project in Chongqing City“in Chongqing City only with the tariff of 0.200 and 0.205 Yuan/kWh for including VAT.

The project 2959” Chengkou County Huangnan River Lijiaba Hydroelectric Project” is located in Chengkou county. The power network in Chengkou County is not sound and energy development is weak, the power supply cannot meet the development needs of the county¹¹.The Chengkou County is the point national poverty county and the only old revolutionary base area in Chongqing City, so the State Ministry of Water Resources and the Chongqing Municipal Development and Reform Commission appoint that the hydropower Development in the county can enjoy preferential policies¹². It means the project 2959 can get a higher tariff than the basic tariff.

The owner of project 1539” Liyutang small Hydropower project” and 1499” Chongqing Menkantan Hydroelectric Project” is Chongqing Water Resources Investment Group Co., Ltd. which is a wholly state-owned company¹³. It means the two projects have the right to negotiate the tariff. The project 1499 is regulating hydropower station with the function of flood control and fish farming, which means the project can enjoy policy advantage of high tariff.

⁸ <http://www.cqdp.gov.cn/content.asp?id=5513>

⁹ Purchase and sell electricity contract between Kai county Dongli River Hydropower Co., Ltd. and Chongqing Kai County Power Supply Co., Ltd., dated on November 15, 2006.

¹⁰ The electricity sales receipt of one hydropower station in Guangmian Town Kai County, Chongqing City

¹¹ <http://ck.cq.gov.cn/fgw/ViewInfo.asp?id=195>

¹² <http://www.cnsfp.com/view.asp?id=487>

¹³ http://wgz.cq.gov.cn/news/show_content.asp?id=710&class=000100060003

The reservoir of the project 1539 is the first large-scale agricultural irrigation and water conservancy project in Chongqing, the main tasks of which is agricultural irrigation and urban water supply, and the power generation is just a supplement¹⁴. It means the project can enjoy policy advantage of higher tariff. The owner of project 996" Zhoubai Hydroelectric Project", 1222" Xiangziyan Hydroelectric Project", 1226" Youshuishiti Hydroelectric Project" is Chongqing Wujiang Industry (Group) Co.,Ltd³ and the the project 2782 "Chongqing Pengshui Longmenxia Hydropower Station Project" is located in Pengshui³. So the above projects are all connected to the Chongqing Wujiang Electric Power Co., Ltd Grid, which is different from the Grid the Shuanghekou project is connected

(b) According to the Approval of Kai County Shuanghekou Power Station Project, Yufagaineng [2006]725, issued by Chongqing Development and Reform Commission, the total investment is RMB 93.77 million, which is a bit more than the total investment of RMB 93.73 million in PDD. In fact the actual total investment will far exceed the original estimated. Comparing with the existing contracts, the completed investment is up to RMB 100.73 million, while the project is still under construction, and has been completed by approximately 80%. The main reason is shown below:

1. With the prices of the products keeping rising up rapidly, the cost in equipment and labor wages increase sharply.
2. Effected by the adverse geological, many original designs have changed. The angles of some of the tunnel have been adjusted, and the length of the tunnel increase by 380 meters, which make a larger expenditure on the deviation tunnel.
3. As the local government land requisition compensation and resettlement policy¹⁵ adjustments, the cost for temporary construction land requisition compensation need to increase too.
4. The Shuanghekou hydropower station was put into operation in August 2009 as originally schedule, but the project isn't put into operation so far due to geological conditions and weather impact, and the operation day would be postponed to August 2010. The delay makes construction loan interest and project management increase sharply.

(c) According to PDR, the electricity generation annual is 70,540 MWh. The coefficient of effective electricity is 95%, and the effective generation is 67,013 MWh. The coefficient of electricity consump-

¹⁴ http://www.cqwater.gov.cn/sjym/sjym.aspx?id=14799&table=Water_sltdt&dy=1

¹⁵ Notice on adjusting the land requisition compensation and resettlement, KaiXianFuFa[2008]28 issued by Kai County People's Government.

tion on the auxiliaries' equipment is 0.2%, and the offer generation is 66,879 MWh. The transmission loss is 2%, so the grid connected electricity is 65,541 MWh.

1) The coefficient of effective electricity

According to *Economic Evaluation Code for Small Hydropower Projects (SL16-95)*¹⁶ issued by Ministry of Water Resources of P. R. China, The coefficient of effective electricity can be decided according to Table 3.4 from the Code SL16-95 (Clause 3.4):

Table 3.4 Coefficient of Effective Generation

Type of Hydropower Plant	Coefficient of Effective Electricity
1. Plant connected to grid with yearly or multi-yearly regulating capacity	0.95 ~ 1.00
2. Plant connected to grid with seasonal regulating capacity	0.90 ~ 0.95
3. Plant connected to grid with monthly/weekly/daily/no regulating capacity	0.80 ~ 0.90
(1) The grid will absorb all power generation during rainy season and at night	
(2) The grid will absorb part of power generation during rainy season and at night	0.70 ~ 0.80
4. Plant not connected to grid with daily and no regulating capacity	0.60 ~ 0.70

The project is a run-of-river plant without regulating capacity, so the coefficient of effective electricity for the project should be 0.80 ~ 0.90 at most. The value 0.95 is used as the coefficient of effective electricity for the project activity in the PDR, it is conservative.

- 2) **The coefficient of electricity consumption on the auxiliaries' equipment** According to *Specifications on Hydropower Energy Design Code for Small Hydropower Plant (SL-76-94)* (Clause 4.6), the coefficient of electricity consumption on the auxiliaries' equipment for small hydropower plants is 0.5% ~ 1.0%. The value 0.2% is used as coefficient of electricity consumption on the auxiliaries' equipment for the project activity, it is more conservative.

3) The transmission loss

According to *Economic Evaluation Code for Small Hydropower Projects (SL16-95)* (Page 31, Clause 3.2), the transmission loss should be up to 10%. The value 2% is used as transmission loss for the project activity, it is more conservative.

¹⁶ <http://www.cws.net.cn/guifan/bz/SL16-95>

Besides, the IRR is 8.39% assuming that the gross electricity of 70,540 MWh exported to the grid, and it is still lower than the benchmark of 10%. Please find the attached spreadsheet “IRR analysis with gross electricity”.

Response from TÜV SÜD:

The DOE cross checked the input values of the following parameters during the validation process and further substantiate them with actual additional information as explained below:

(a) **Tariff**

DOE cross checked all the registered projects in the same region.

Table 1 CDM projects in Chongqing (as of 15 Dec 2009)

Ref	Registered*	Title	Capacity (MW)	VAT excluding	VAT including
2738	17-Oct-09	Ping An Yiji 6MW Hydropower Project in Chongqing City	6	0.193	0.205
1537	26-Apr-08	Jielong Cascade Small-Scale Hydropower Project	10.4	0.189	0.200
2959	R-R	Chengkou County Huanggan River Lijiaba Hydroelectric Project	12	0.251	0.266
1539	9-Jul-08	Liyutang small Hydropower project	15	0.243	0.258
996	2-Jul-07	Zhouhai Hydroelectric Project	22	0.240	0.281
2782	13-Dec-09	Chongqing Pengshui Longmenxia Hydropower Station Project	23	0.280	0.328
1499	24-Jun-08	Chongqing Menkantan Hydroelectric Project	25	0.251	0.294
2839	R-R	Chongqing Pengshui Sanjiangkou Hydropower Station	30	0.236	0.276
1222	11-Oct-07	Xiangziyan Hydroelectric Project	32	0.205	0.240
2847	RfR	Chongqing Zhongliang Hydroelectric Project	96	0.290	0.339
1226	12-Oct-07	Youshuishiti Hydroelectric Project	120	0.240	0.281
2861	RfR	Shuanghekou 16.6MW Hydropower Project in Chongqing City, P.R. China	16.6	0.193	0.205

* R-R: Requesting Registration, RfR: Request for Review

According to validating the documents provided by the PP, DOE concludes that there are four main reasons for the projects above getting higher tariffs.

a. There are two kinds of Grid the projects connected to.

In accordance with the Article 37 of Chapter 5 of < Electricity Law of the Peoples Republic of China> (IRL 108), a principle of equal rates for equal quality of electricity supplied by the same power network shall be applied with regard to incorporation into a power network. DOE confirms that the projects will get different tariffs if they connect to different Grid. So the projects 996, 1222, 1226, 2839 and 2782 have higher tariffs. The four projects are all connected to the Chongqing Wujiang Electric Power Co., Ltd Grid, which is different from the National Grid the Shuanghekou project is connected to (IRL 95, 96, 97). The National Grid almost purchases electricity at basic tariff offered by NDRC (IRL 98, 99) from small projects like Shuanghekou.

b. Multifunctional projects usually get higher tariff.

According to article 36 of Chapter 5 of < Electricity Law of the Peoples Republic of China>, “Establishment of electricity rates shall be based on the principles of reasonable compensation of cost and reasonable determination of profits, legal incorporation of taxes, fairly shared burdens and promotion of electric power construction”, the projects with additional functions such as agricultural irrigation and flood control always get higher tariff for compensating their investment such as projects 2847, 1539, 1499.

c. Projects constructed for poverty alleviation usually enjoy tariff preferential policies.

Like project 2959, the project is located in the national poverty county the only old revolutionary base area in Chongqing City which can enjoy preferential policies to get a higher tariff which has been confirmed by DOE (IRL 104, 105).

d. Tariff could be increased by negotiation between project owner and Grid Company

According to Article 38 “a plan shall be proposed through consultation by the enterprises engaged in power generation and in power network operation and shall be examined for approval by the department in charge of price control under the State Council”, the state owned projects usually have more rights to negotiate with the Grid to get higher tariff.

As indicated above, although in the same region, it is possible there are different tariffs agreed by the project owner and electricity buyer based on the basic tariff policy considering the different conditions of the different projects. It can be confirmed by Article 36, 37 and 38 of Chapter 5 of < Electricity Law of the Peoples Republic of China>.

Shuanghekou Project is a small scale and run-of-river project, and owned by the private company. The Shuanghekou Project has no right to negotiate the tariff and can only accept the basic tariff of 0.205 Yu-

an/kWh in PPA (IRL 42) signed on Nov. 15, 2006, which is one of the main reasons that the Shuanghekou station made a board decision to apply CDM. DOE has crosschecked another small scale hydropower station which was put into operation in 2001 in the same Town belonging to the same electricity buyer---Chongqing city Kai County power Co., Ltd. as Shuanghekou Project, whose tariff is only 0.191 Yuan/kWh for excluding VAT and 0.203 Yuan/kWh for including VAT. The invoices dated on July 11th, 2008 (IRL 69) have been cross checked by DOE.

Therefore, DOE can confirm that the tariff used in the PDD is actual and reasonable.

(b) Total static investment

DOE cross checked the Approval of Kai County Shuanghekou Power Station Project, Yufagaineng [2006]725, issued by Chongqing Development and Reform Commission, where the total investment is RMB 93.77 million, which is a bit more than the total investment of RMB 93.73 million in PDD. In fact the actual total investment will far exceed the original estimated. Comparing with the existing contracts (IRL 82-94), the completed investment is up to RMB 100.73 million, while the project is still under construction, and has been completed by approximately 80%. Therefore, DOE concludes that the assumption of the total static investment in PDD is conservative.

(c) coefficient of electricity and transmission losses

DOE confirms that the coefficient of effective electricity is 95%, the coefficient of electricity consumption on the auxiliaries' equipment is 0.2%, and the transmission loss is 2% in PDR .

1) The coefficient of effective electricity

DOE has cross checked the *Economic Evaluation Code for Small Hydropower Projects (SL16-95)* (IRL 25) issued by Ministry of Water Resources of P. R. China, where the coefficient of effective electricity can be decided according to Table 3.4 from the Code SL16-95 (Clause 3.4):

Table 3.4 Coefficient of Effective Electricity

Type of Hydropower Plant	coefficient of effective electricity
1. Plant connected to grid with yearly or multi-yearly regulating capacity	0.95~1.00
2. Plant connected to grid with seasonal regulating capacity	0.90~0.95
3. Plant connected to grid with monthly/weekly/daily/no regulating capacity	
(1) The grid will absorb all power generation during rainy season and at night	0.80~0.90
(2) The grid will absorb part of power generation during rainy season and at night	0.70~0.80

4. Plant not connected to grid with daily and no regulating capacity	0.60~0.70
--	-----------

The project is a run-of-river plant without regulating capacity, so the coefficient of effective electricity for the project should be 0.80~0.90 at most. The value 0.95 used as the coefficient of effective electricity for the project activity is conservative.


2) The coefficient of electricity consumption on the auxiliaries' equipment

DOE has cross checked the *Specifications on Hydropower Energy Design Code for Small Hydropower Plant (SL-76-94)* (Clause 4.6), the coefficient of electricity consumption on the auxiliaries' equipment is 0.5%~1.0%. The value 0.2% used in the PDD is more conservative.


3) The transmission loss

DOE has cross checked the *Economic Evaluation Code for Small Hydropower Projects (SL16-95)* (Page 31, Clause 3.2), the transmission loss should be up to 10%. The value 2% used for the project activity more conservative.


In order to further ensure the financial additionality, DOE has verified the IRR with the total power generated (70,540 MWh) that means the coefficient of effective electricity is 1. IRR will be increased to be 8.39% which is still below the benchmark 10%. Even if further 10% increase of electricity output is assumed in the sensitivity analysis, the maximum IRR will be 9.5% which is still below the benchmark. Therefore the audit team confirmed that the assumption is reasonable. The spreadsheet "IRR analysis with gross electricity" is also submitted.

Report	2009-12 -25	Shuanghekou 16.6MW Hydropower Project in Chongqing City, P.R.China Information Reference List	Page 1 of 7	 Industrie Service
--------	-------------	--	----------------	--


Reference No.	Document or Type of Information
1.	Project Design Document for CDM project” Shuanghekou 16.6MW Hydropower Project in Chongqing City, P.R.China”, version 01, dated Oct. 28, 2007
2.	The approved baseline and monitoring methodology ACM0002, ver 07
3.	Participant list of on-site interview, signed on March .27, 2008
4.	<p>On-site interviews at the project site in Kai County Dongli River Hydropower Co.,Ltd, Guangmian Town, Kai County, Chongqing City, China, conducted on March 27th 2008 by auditing team of TÜV SÜD:</p> <p>Validation team:</p> <p>Mr. Smith Liu CDM Auditor , TÜV SÜD Industrie Service GmbH</p> <p>Interviewed persons:</p> <p>Mr. Xiang Songwen Standing deputy general manager of Kai County Dongli River Hydropower Co.,Ltd</p> <p>Mr. Fan Wen Deputy general manager of Kai County Dongli River Hydropower Co.,Ltd</p> <p>Mr. Yang Binhua Kai County Dongli River Hydropower Co.,Ltd</p> <p>Ms. Tu Xin CDM project manager of Shanghai Yanminjiu International Trade Co.,Ltd</p> <p>Ms. Hua Minxia CDM project manager of Shanghai Yanminjiu International Trade Co.,Ltd</p>
5.	Kai County Shuanghekou Hydropower Project Preliminary Design Report. Issued by Chongqing City Three-gorge Hydropower Reconnaissance Design Institute dated Aug. 2005.
6.	Approval of Kai County Shuanghekou Hydropower Project Preliminary Design Report, Kaishuining No <2006> 174. Issued by Kai County Conversancy and Agricultural Machinery Bureau, dated Oct 25 2006.
7.	Chongqing City Kai County Shuanghekou Hydropower Project Environment Impact Report Paper. Issued by China Coal International Engineering Group Chongqing City Design Institute, dated Nov 2005.
8.	Approval of Chongqing City Kai County Shuanghekou Hydropower Project Environment Impact Report Paper, Yu (shi)huanzhuan No <2006>84. Issued by Chongqing City Environment Protection Bureau, dated April 11 2006
9.	Approval of Kai County Shuanghekou Hydropower Station Agricultural Land Transformation and Collection, Yufudi No <2006>759. Issued by Chongqing City People Government, dated Sep 27 2006.
10.	Approval of Kai County Shuanghekou Hydropower Station Starting-work Construction, Kaishuining No<2007>144. Issued by Kai County Conversancy and Agricultural Machinery Bureau, dated June 25 2007.

Report	2009-12 -25	Shuanghekou 16.6MW Hydropower Project in Chongqing City, P.R.China Information Reference List	Page 2 of 7	 Industrie Service
--------	-------------	--	----------------	--


Reference No.	Document or Type of Information
11.	Directors Board Resolution of Kai County Donglihe Hydropower Co., Ltd. Issued by all of directors of the Kai County Donglihe Hydropower Co., Ltd, dated Dec 1 2006.
12.	Chongqing City Kai County Shuanghekou Hydropower Station Tur-generator and Accessory Equipments Purchase Contract Paper. Issued by Chongqing Kai County Donglihe Hydropower Co., Ltd, and Hangzhou Power Generation Company, dated Dec 18 2007.
13.	Shuanghekou Hydropower Station stakeholder meeting photos (2 photos). Issued by Kai County Dongli River Hydropower Co.,Ltd.
14.	Stakeholder Meeting Announcement, issued by Kaizhou Daily, dated Oct 25 2007.
15.	Kai County Shuanghekou Hydropower Station CDM stakeholder consultation meeting summary. Issued by Kai County Dongli River Hydropower Co., Ltd, dated Oct 25 2007.
16.	Chongqing Shuanghekou Hydropower Station Project Schedule. Issued by Kai County Dongli River Hydropower Co.,Ltd.
17.	CER Calculation sheet, dated Jul. 31, 2009
18.	Approval of Kai County Shuanghekou Hydropower Station Grid collection, Kaidianhan No<2006>27. Issued by Chongqing City Kai County Electric Supply Company, dated July 26 2006.
19.	Capital Examination Report, Qingyuankaiyan <2006>No 103. Issued by Chongqing Qingyuan Certificated Public Accounts Firm, dated Aug 29 2006.
20.	Capital Examination Report, Qingyuankaiyan <2007>No 101. Issued by Chongqing Qingyuan Certificated Public Accounts Firm, dated June 11 2007.
21.	First version of IRR Calculation Spreadsheet in English, dated Mar. 2008
22.	Notice of Regulating Electric Price of Central China Power Grid, Fagaijiage [2006] 1233 (http://www.gov.cn/gzdt/2006-07/01/content_325205.htm). Issued by National Development and Reform Commission, dated by June 28 2006.
23.	Shuanghekou Hydropower Station Plane Figure. Issued by Chongqing City Three-gorge Hydropower Reconnaissance Design Institute, dated Aug 2005.
24.	Loan Evidence. Issued by Kai County Country Credit Corporation Society, dated April 18 2007.
25.	Economic Evaluation Code for Small Hydropower Projects (SL16-95), Issued by Ministry of Water Resources of People's Republic of China, date on Jun 2 1995.
26.	China Electric Power Yearbook_ 2006
27.	Notice on Strictly Prohibiting the Installation of Fuel-Fired Generators with the Capacity of 135MW or Below, issued by the General Office of the State Council, Decree No. [2002]6, dated Apr 15 2002.
28.	Final version of IRR Calculation Spreadsheet in English, dated 31 July, 2009

Report	2009-12 -25	Shuanghekou 16.6MW Hydropower Project in Chongqing City, P.R.China Information Reference List	Page 3 of 7	 Industrie Service
--------	-------------	--	----------------	--


Reference No.	Document or Type of Information
29.	Emission Factor Calculation Spreadsheet in English
30.	The Project Delay Report issued by the constructor on Dec 17 2007, which is verified by the 3rd party supervisor on Dec 22 2007 and approved by the project owner on Dec 25 2007.
31.	CDM Confirmation Letter to Shanghai Yanminjiu International Trade Co. Ltd, issued by Kai County Dongli River Hydropower Co.,Ltd, dated Jan 17 2007
32.	Yearbook of China Water Resources 2006, page 575
33.	The web site of Chongqing Wujiang Industry Group Co., Ltd. (http://www.wjep.com/gb/aboutus/?stype=13)
34.	Approval of Change of The Project Owner of Shuanghekou Hydropower Station, issued by Kai county government, dated Jul 25 2006.
35.	Approval of Grid Connection of Shuanghekou Hydropower Station, issued by Chongqing Kai County Grid Company, dated Jul 26 2006.
36.	Training and Maintenance Summary, issued by Kai County Dongli River Hydropower Co.,Ltd
37.	Investment Appraisal (Amendment to Budget of PDR) of Transmit Electricity Engineering of Chongqing Kai County Shuanghekou Hydropower Station, issued by Chongqing City Three-gorge Hydropower Reconnaissance Design Institute, dated Nov 2006.
38.	Approval of The Application of the Loan by Kai County Dongli River Hydropower Co.,Ltd, issued by Kai County Country Credit Corporation Society, dated Jan 18 2008.
39.	The Baseline Emission Factor of China published by NDRC (National Development and Reform Commission, the DNA of China) on July 18 2008
40.	Notice for The Approval of Kai County Shuanghekou Power Station Project, Yufagaineng [2006]725, issued by Chongqing Development and Reform Commission, dated Aug 18 2006.
41.	Notice of Adjustment of The Water Resource Tariff, issued by Chongqing City Price Bureau, Chongqing City Finance Bureau and Chongqing City Water Conservancy Bureau, date Jul 4 2006.
42.	The Purchase and Sell Electricity Contract, signed between Kai county Dongli River Hydropower Co., Ltd. and Chongqing Kai County Power Supply Co., Ltd., dated Nov. 15, 2006.
43.	Encourage Hydropower Development Policy in Sichuan Province (http://www.china5e.com/news/water/200504/200504180145.html)
44.	The Power Grid Tariff of Chengdu City (Including the analysis of electricity tariff of Sichuan Province), (http://www.chengdu.gov.cn/gov_open/detail.jsp?id=162327)

Report	2009-12 -25	Shuanghekou 16.6MW Hydropower Project in Chongqing City, P.R.China Information Reference List	Page 4 of 7	 Industrie Service
--------	-------------	--	----------------	--


Reference No.	Document or Type of Information
45.	Yaan Hydropower Resources Development status (including the electricity tariff difference analysis between Sichuan and Chongqing). (http://www.yaan.gov.cn/yazc/yasd.nsf)
46.	China Electric Power Yearbook (2003-2007)
47.	The Capital Report Abstract of Chongqing Wujiang Power Group Co., Ltd. (1 st half of year 2002), http://share.jrj.vnet.cn/cominfo/ggdetail_2002-08-14_000975_51996.htm
48.	Notice of Adjustment Tariff of CCPG by NDRC, Yujia [2006] 352, issued by Chongqing Municipal Bureau of Prices, dated Jun.29, 2006.
49.	Pillar Industry Policy in Chongqing Municipality, (http://www.cq.xinhuanet.com/xhbb/2007-11/08/content_11620758.htm)
50.	China drainage map (including the water resource difference analysis between Sichuan and Chongqing) (http://www.powerfoo.com/news/slzy/slzy.html)
51.	The final Project Design Document for CDM project” Shuanghekou 16.6MW Hydropower Project in Chongqing City, P.R.China, version 05, dated Jul 31 2009.
52.	LoA of China, issued by National Development and Reform Commission of the People's Republic of China, dated July 2008
53.	MoC
54.	LoA of Japan, issued by Minister of Economy, Trade and Industry of Japan dated Jun. 10, 2008
55.	http://www.mwr.gov.cn/tzgg/qt/20060926000000479251.aspx .
56.	http://www.powerfoo.com/news/slzy/slzy.html
57.	http://www.cqwsl.com/list.asp?id=671&mname=%E8%83%BD%E6%BA%90%E4%B8%8E%E7%94%B5%E5%8A%9B&quname=%E7%94%B5%E5%8A%9B%E7%AE%A1%E7%90%86
58.	http://www.wjep.com/gb/aboutus/content.asp?id=194&stype=13
59.	http://www.wjep.com/gb/aboutus/?stype=13
60.	IRR calculation sheet, dated Jul. 31, 2009
61.	http://share.jrj.vnet.cn/cominfo/ggdetail_2002-08-14_000975_51996.htm , Yearly report summary of Chongqing Wujiang Industry Group,
62.	Statistics data of China hydropower projects, made by TÜV SÜD.
63.	The Letter on the electricity transmission from Kai County Shuanghekou Hydropower Station, No 145 Yu Dian Han [2006], issued by Chongqing City Power Supply Co., Ltd. issued on Sep. 05 2006
64.	Assets evaluation report abstract of Kai County Donglihe Hydropower Co., Ltd., by Chongqing City Zhongrongxing Real Estate and

Report	2009-12 -25	Shuanghekou 16.6MW Hydropower Project in Chongqing City, P.R.China Information Reference List	Page 5 of 7	 Industrie Service
--------	-------------	--	----------------	--

Reference No.	Document or Type of Information
	Land Assets Evaluation Co., Ltd., dated June 8, 2009.
65.	Purchase contract of beam crane, signed between Kai County Donglihe Hydropower Co., Ltd. and Zhongyuan Shengqi Co., Ltd., Dated on March 11, 2009.
66.	Penstock contract, signed between Kai County Donglihe Hydropower Co., Ltd. and Neijiang Donggong Hydropower Equipment Manufacture Co., Ltd., dated on June 19, 2009.
67.	Purchase Contract of Excitation System, signed between Kai County Donglihe Hydropower Co., Ltd. and Wuhan City Water Auto-control Technology Co., Ltd., dated on June 16, 2009.
68.	Purchase contract of 2*6300KV+1*4000KV transformer bank, signed between Kai County Donglihe Hydropower Co., Ltd. and Jiangshan Kerun Power Equipment Co., Ltd., dated on August 30, 2008.
69.	Invoice of another hydropower station located in the same Town and contracted with same Grid Company i.e. Chongqing city Kai County power Co., Ltd, dated July 11, 2008
70.	http://stockdata.stock.hexun.com/stock_detail_600116_039880.shtml
71.	http://www.xzqh.org/html/cq/0306.html
72.	http://www.cqncnews.com/News/Show.asp?id=5254
73.	http://www.powerproduct.com/user1/mmtdocs.html?u=131222
74.	http://www.cq.xinhuanet.com/zfwq/shizhu/top06/top06-03.htm
75.	http://emuch.net/journal/article.php?id=CJFDTtotal-SCSL1993S1002
76.	http://jda.cq.gov.cn/templet/default/ShowArticle.jsp?id=4598
77.	http://www.cqan.com.cn/content/detail_c.php?cid=15&id=1450
78.	http://www.stats.gov.cn/tjfx/jdfx/t20080310_402466888.htm
79.	http://www.ce.cn/cysc/fz/fzgd/200712/27/t20071227_14047051.shtml
80.	http://share.jrj.vnet.cn/cominfo/gqdetail_2002-08-14_000975_51996.htm
81.	http://www.wjep.com/gb/aboutus/content.asp?id=218&stype=7&title=大事记
82.	Construction contract for forebay of diversion tunnel, signed between Kai County Donglihe Hydropower Co., Ltd and Zhejiang Province Third Geological and Mining Engineering Company, dated on Jan. 21, 2009 (total price in the contract is RMB 20,500,000)
83.	Construction contract for grille dam and grit chamber, signed between Kai County Donglihe Hydropower Co., Ltd. and Si'eng Tujiazu Miaozi Autonomous Hydro Electric Construction company, dated on Aug. 5, 2009 (total price in the contract is RMB 330,000)
84.	Construction contract for lining of diversion tunnel, signed between Kai County Donglihe Hydropower Co., Ltd and Jiande City

Report	2009-12 -25	Shuanghekou 16.6MW Hydropower Project in Chongqing City, P.R.China Information Reference List	Page 6 of 7	 Industrie Service
--------	-------------	--	----------------	--

Reference No.	Document or Type of Information
	Hengye Hydropower construction engineering Co., Ltd., dated on June 30, 2009 (total price in the contract is RMB 16,500,000)
85.	Construction contract for plant land and building, signed between Chongqing kai County Donglihe Hydropower Co., Ltd. and Chongqing City Wangzhou Hydropower construction engineering Co.,Ltd, dated on Jan. 16, 2009 (total price in the contract is RMB 7,500,000)
86.	Construction contract of 110 KV transmission engineering, signed between Chongqing kai County Donglihe Hydropower Co., Ltd., and Sichuang Yuechi Transmission Engineering Company, dated on May 18,2009 (total price in the contract is RMB13.500,000)
87.	Construction contract for diversion tunnel, signed between Kai County Donglihe Hydropower Co., Ltd and Kai County Construction Development Co., Ltd., dated on Jan 16, 2007 (Total Price in the contract is RMB9,500,000)
88.	Penstock contract, signed between Kai County Donglihe Hydropower Co., Ltd. and Neijiang Donggong Hydropower Equipment Manufacture Co., Ltd., dated on June 19th, 2009 (total price in the contract is RMB 6,440,000)
89.	Purchase and sell electricity contract between Kai county Dongli River Hydropower Co., Ltd. and Chongqing Kai County Power Supply Co., Ltd., dated on November 15th, 2006 (the tariff: including VAT is 0.205 Yuan/KWh)
90.	Purchase contract of beam crane, signed between Kai County Donglihe Hydropower Co., Ltd. and Zhongyuan Shengqi Co., Ltd., dated on March 11th, 2009 (total price in the contract is RMB 235,000)
91.	Purchase contract for computer automatic system, signed between Kai County Donglihe Hydropower Co., Ltd. and Chongqing New Century Electrical Co., Ltd. , dated on Aug. 12, 2009 (total price in the contract is RMB 550,000)
92.	Purchase Contract of Excitation System, signed between Kai County Donglihe Hydropower Co., Ltd. and Wuhan City Water Auto-control Technology Co., Ltd. , dated on June 16th,2009 (total price in the contract is RMB 330,000)
93.	Purchase contract of 2*6300KV+1*4000KV transformer bank, signed between Kai County Donglihe Hydropower Co., Ltd. and Jiangshan Kerun Power Equipment Co., Ltd., dated on August 30th, 2008 (total price in the contract is RMB 3,627,500)
94.	Purchase contract of turbines and generators, signed between Kai County Donglihe Hydropower Co., Ltd. and Hangzhou Power Equipment Plant, dated on December 18th, 2007(total price in the contract is RMB 18,750,000)
95.	http://www.52data.cn/Article/dlzt/200702/12845.html
96.	http://www.qjgyxx.com/company.asp?id=25
97.	http://www.jda.cq.gov.cn/templet/default/search/xxwj_show.jsp?id=5446
98.	http://www.gov.cn/gzdt/2006-07/01/content_325205.htm
99.	http://jjckb.xinhuanet.com/cjxw/2008-12/23/content_134861.htm
100.	http://www.sdpc.gov.cn/zcfb/zcfbtz/2009tz/t20091120_314530.htm

Report	2009-12 -25	Shuanghekou 16.6MW Hydropower Project in Chongqing City, P.R.China Information Reference List	Page 7 of 7	 Industrie Service
--------	-------------	--	----------------	--

Reference No.	Document or Type of Information
101.	http://wgz.cq.gov.cn/news/show_content.asp?id=710&class=000100060003
102.	http://www.cqdpcc.gov.cn/content.asp?id=5513
103.	Notice on adjusting the land requisition compensation and resettlement,KaiXianFuFa[2008]28 issued by Kai County People's Government.
104.	http://ck.cq.gov.cn/fgw/ViewInfo.asp?id=195
105.	http://www.cnsifp.com/view.asp?id=487
106.	http://wgz.cq.gov.cn/news/show_content.asp?id=710&class=000100060003
107.	http://www.cqwater.gov.cn/sjym/sjym.aspx?id=14799&table=Water_sldt&dy=1
108.	Electricity Law of the Peoples Republic of China, Adopted at the 17th Meeting of the Standing Committee of the Eighth National People's Congress on December 28, 1995, promulgated by Order No. 60 of the President of the People's Republic of China on December 28, 1995 and effective as of April 1, 1996