

Monitoring and Evaluation of the RED Programme in China, Final

Monitoring & Evaluation Completion Report

Mission 27th October. - 7th November 2014

Vol. II, Monitoring Framework for CNREC Departments



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List of Abbreviations and Acronyms

AC	Advisory Committee (of CNREC)
AD	Administration Department
BoD	Board of Directors
BP	Business Plan
CEPRI	China Electrical Power Research Institute
CICETE	China International Centre for Economic and Technical Exchanges, branch of MOFCOM
CIFF	Children's Investment Fund Foundation
CITCD	China International Talent Development Centre Human Resources
CNREC	China National Renewable Energy Centre
CRED	Centre for Renewable Energy Development (part of ERI)
CRESP	China Renewable Energy Scale-Up Programme
CVIG	China Variable Energy Integration Group
DAC	Development Assistance Committee
DEA	Danish Energy Agency
DKK	Danish Kroner
DSS	Decision Support Systems
EC2	Europe China Clean Energy Centre
ERI	Energy Research Institute
EUDP	Danish, Energy Technology Development and Demonstration Programme
EU	European Union
FS	Feasibility Study
GoC	Government of China
HoD	Head of Department
IA	International Adviser
IEA	International Energy Agency
LFA	Logical Framework Approach
MDGs	Millennium Development Goals
M&E	Monitoring and Evaluation
MC	The Management Committee (for CNREC)
MF	Monitoring Framework
MFA	Ministry of Foreign Affairs
MOFCOM	Ministry of Commerce,
MOP	Management, Operation Mechanism and Work Plan for CNREC 2012
MOST	Ministry of Science and Technology
MoU	Memorandum of Understanding
NDRC	National Development and Reform Commission
NEA	National Energy Administration
NEC	National Energy Commission
NGO	Non-Governmental Organisation
OECD	Organisation for Economic Cooperation and Development
PAP	Process Action Plan
PCR	Project and Programme Support Completion Report
PD	Programme Document
PDB	Programme and Project Database
PM	Project Manager
PMO	Programme Management Office
PRSP	Poverty Reduction Strategy Paper
PSC	Programme Steering Committee
PTF	Programme Task Force
QA	Quality Assurance
RAM	Review Aide Mémoire
RDE	Royal Danish Embassy
RE	Renewable Energy

RED	Renewable Energy Programme
REIAC	Renewable Energy Information and Analysis Centre
RMB	Renminbi, Chinese currency
ROACH	Results Oriented Approach for Capacity Change
SBS	Sector Budget Support
SC	The Steering Committee
SERC	State Energy Regulatory Commission
SGERI	State Grid Energy Research Institute
TL	Team Leader of the Monitoring & Evaluation Team
TOR	Terms of Reference
WED	Wind Energy Development Programme

1 INTRODUCTION

This is Volume II of the Completion Report of the Monitoring and Evaluation of the RED Programme. The Report includes Annex 4 of the Report, which is the Monitoring Framework for the five Departments of CNREC.

2 ANNEX 5, MONITORING FRAMEWORK, CNREC DEPARTMENTS

2.1 Monitoring Framework Policy Department

Monitoring Framework CNREC & RED, Performance Indicators CNREC, Policy Department

Project no.	Department 所属部门	Title课题（项目）名称	项目目标和产出Objective, outcomes and focus	Team and consultants团队和咨询专家	Financing资金来源	Start time拟开始时间	End time拟结束时间	Status May 2013 项目状态	Status March 2014	Status & comments October 2014
1	Policy政策研究部	RE quota mechanism policy research 可再生能源配额制政策研究 seminarheld	Output1 : RE data collection and analysis.output2:Research Report of Implementation Measures on the Statistics, Monitoring and Assessment System of the Renewable Energy.output3:Research on models for quota distribution and trading.Output4:Pilot Program on the Green Certificates Trading System of Renewable Energy Power Quota	PM: Ren Dongming & Tao Ye CNREC:Wang Zhongying, Ren Dongming, Taoye, Shi Jingli,Zhao Yongqiang,Xie Xuxuan, Hu Runqing, Qin Shiping.	EF RMB 150.000	2011,3	2012,3	Follow up to be completed in June 2013 Knowledge gained and lessons learned to be shared in CNREC.	Quota mechanisms is now supported by CRES – budgeted at USD 60.000. Quota mechanisms is still an important part of the policy dialogue, feeding into discussions on grid connections. – also covered by project 5	Quota researched continued in new project 31
2	Policy政策研究部	policy research on encouraging private investment on new energy industry鼓励私营投资新能源行业政策研究	output1:Research on situation and options for incentives ;output2:report on policy options;Output3:report on implementation	PM. Zhao Yongqiang CNREC:Zhao Yongqiang, Ren dongming, Gao Hu, Xie Xuxuan, Yuan Jingting, Zhu Shunquan, WangWei, Zhang Cheng Qiang, Zhang Qingfen	No	2012,4	2012,5	Completed - dialogue with NEA on this In view of the importance CNREC may consider whether finance can be obtained for this area in the future.	Principles for incentives is feeding into planning, regulation and discussion of sector regulation. – also covered by project 5. A second phase is discussed with international partners and funding agencies at USD 30.000	Feeding into research on financing mechanisms
3	Policy政策研究部	“sustainable energy for all” research and action plan – based on urgent request from NEA	Output1:report on current situation and potentials for sustainable energy service;Output2:report on sustainable energy service;Output3:white paper	Pm: Shi Jingli CNREC: Shi Jingli,Wang Tian, Tao Ye, Yuan Jingting, Zhang Qingfen,Zhao	No	2012,2	2012,11	Three sub project now developing; Summary of evaluation prepared. Research award received. Knowledge	This is feeding into international policy discussions on renewable energy – such as 3GF and discussions between	Completed discussion continues in UN forums

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				Yongqiang, Consultant: Liu Jingru, State Grid,SinoPec				gained to feed into the general knowledge base of CNREC – stakeholder relations to be used to build CNREC relations and sustainability.	China and UN	
4	Policy政策研究部	distributed energy policy design and operation mode research分布式能源政策设计和运行模式研究	Output1 : distributed small scale energy status quo and trend policy research ; Output : distributed small scale solar system policy research ; Output3:distributed small scale energy financing mode;Output4:Final Report	PM: ren Dong Ming CNREC;Shijingli,Xie Xuxuan, Zhao Yongqiang.Consultants: Li Qionghui, Wang Zong, Wang Jixue,Wang Sicheng	China Development Bank RMB 800.000	2012,3	the first half year of 2013	Output 1 and 2 is finished, final meeting on the report has not taken place yet. Research to feed into CNREC knowledge base and considerations for project acquisition	Distributed energy continues to be a key research area, related to policies to improve connection between urban and rural areas. Kick off has taken place for phase 2, the new phase discussed with Liang Ji Pang – to include survey on options for distributed energy.-	Continued in new projects on distributed energy
5	Policy政策研究部	2050 high penetration of RE development strategy 2050高比例可再生能源发展战略研究 Covers the same area as 2, 4 and 4	Preparation of proposals to develop long term energy models, 10 sub projects	PM: Wang Zhongying & Tao Ye CNREC and 26 assistant units - all Policy Department	EF USD 1.6 Mio divided between 10 partners	2011,11	2014	inception and 100 page summary prepared. The findings and receipt of the study needs to be discussed in view of CNREC strategic planning for sustainability.	2050 scenario study continues to be a flagship project for the department, involving 10 staff and receiving input from many projects incl. the road maps, tax and feed in tariff studies (Projects 1, 2, and 4 feeds into this:	Now project 17
6	Policy政策研究部	RE subsidy mechanism research based on new trend 可再生能源补贴机制研究		PM: Ren Dongming Qin Shiping, Shi Jingli, Gao Hu, Hu Runqing, Zhang Chengqiang, Xie xuxuan	EF, 150000 –	2011,3	2012,4	Completed Research to feed into CNREC knowledge base.	Feeding in to work on pricing mechanisms and how to encourage renewable energy. A new phase is starting in 2014	Part of general research on financing

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7	Policy政策研究部	offshore wind power policy research 海上风电政策研究	Output1:information collection and surveys; Output2:research on offshore current policy in China;Output3: information of international offshore policies; Output4:offshore wind power policy research report	PM: Ren Dongming & Tao Ye CNREC: Wang zhongying, Tao Ye, Shi Jingli, Gao Hu, Zhao Yongqiang, Hu Runqing, Qin Shiping, Xie Xuxuan, Yuan Jingting, Qi Linlin	EF, USD 150.000	2012,3	2013,5	Inception Research to feed into CNREC knowledge base. Implications for CNREC strategy and sustainability to be considered.	Draft final report has been prepared. Off shore continues to be a key priority area – providing a potential of additional wind energy resources. Extreme winds continue to pose a risk. Topic of one of the C2 Projects. NEA wants another Off shore wind policy project – CRESP financing is discussed for this.	Feeding into additional research on Off shore
8	Policy政策研究部	wind power price policy assessment风电价格政策评估, requested by NDRC	Output1:data report on wind prices and subsidies; Output2: report on international wind prices structures; Output3:report on policy scenarios, Hydro China important partner	PM: Shi Jingli Tao Ye, Ren Dongming, Yuan jingting, Xie Xuxuan	no -limited funds	2012,6	2012,12	the draft is finished, prepare the assessment meeting. Implications for stakeholder relations and strategy for sustainability of CNREC to be considered.	Report was updated in 2013.Feeding into regulation and policies on development of an energy market in accordance with the New Energy Law.	Used for studies on feed in tariffs
9	Policy政策研究部	RE space and time layout based on cost and supply curve - related to strategic work in ERI	Output1:Data collection paper on supply and deployment on RE; Output2:Research report on lay out options; Output3:Cost benefit report; Output4:Final report - also Wang Hung Fang research Centre as partner	PM Shi Jingli Zhao Yongqiang	EF -USD 90.000		2012	Completed Knowledge to feed into strategy advice. Implications for stakeholder relations and strategy for sustainability of CNREC to be considered.	Addressing some of the problems of physical infrastructure – feeding into plans on expansion of the transmission network, now planned for	Continued in general research on energy market
10	Policy政策研究部	Gansu electricity price form research, support to wind power development centre		PM: Ren Dongming & Shi Jingli sub-contractor: Economy Institute RMB 300.000	Gansu Province What is share for CNREC	2011,11	Postponed	the draft is finished Knowledge on pricing to feed into future research.	Report submitted to Gansu electrical power grid. Gansu is strategically and geographically an important region in expansion of wind energy and transmission. New	Gansu part of important CNREC stakeholders

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									initiatives to cooperate with Gansu are being discussed.	
11	Policy	Solar PV Road Map, cooperation with ERI and carried out in cooperation with Electrical engineering Science Academy		Re Dong Ming, Ley Yen Pang Coordinator	US Energy Foundation - USD 150.000	April 2013	End of 2014	Implications for strategy and sustainability for CNREC to be considered.	Industry Department is lead, linked to the 2050 study and setting targets for 2020, 2030 and 2050.	Budget much higher than originally foreseen
12	Policy	Global RE prospect including Energy and Climate Change for NDRC		Gao Hu TL, Shi Jing LI Len Yen Jung, Yang Chao Nan, Xiu Xiu Xiu (wide CNREC team)	NDRC RMB 1.000.000 2013 - 0.51 M 2014		End of 2014	Implications for strategy and sustainability for CNREC to be considered.	First draft report has been discussed with NDRC	Final draft submitted for review and consultations
13	Policy	2050 RE strategy for NEA	Closely related to 5.	Zhao Youngqiang	Financing ?	December 2012	December 2013	How does this relate to the 2050 strategy work with DEA?	Closely related to 5	Continued under CIFF and detailed Scenario analysis
14	Policy	Climate Management Department of NDRC wants climate and RE strategy		Wang Yung Ying	NDRC RBM 1.000.000 Substantial financial input	August 2013	End of 2014	Implications for strategy and sustainability for CNREC to be considered.	Overlap with Projects 12 and 5.	Part of wider outlook for CNREC
15	Policy	Fossil fuel subsidy mechanism study incl. assessment of tax deduction rules, land use rules and price regulation	Feeding into reform to give renewable energy a stronger role in comparison to fossil fuel	PM: Han Wenke & Ren Dong Ming Shi Jingli and Xie Xuxuan	NDRC, & MoF, 200.000 RMB	2014			Ongoing	Close to completion feeding into overall policies on subsidies
16	Policy	Reconstruction of the energy system to give renewable energy a stronger role	Increase share of renewable energy –carried out with the Centre for Energy Efficiency and the Centre for Climate Change	Tao Ye	USD 2 Mio. Shared between five centres	2014			Ongoing	Part of systems research

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17	Policy	Sub study to the 2050 Scenario study – modelling socio economic research for a high proportion of renewable energy with the Macro Economy Academy	3 projects studying details and resources to achieve the 2050 targets	Pm: Wnag Zhongying, Tao Ye Ren Dong Ming Xie Xuxuan	RMB 100.000	2013	Gradual improvement	Planned	Ongoing	Three scenarios developed. Use of modelling tool institutionalised
18	Policy	Basic research on policies for distributed energy with evaluation team of ERI		Liu Jian Dong with Xie Xuxuan					Ongoing	Analysing policies, regulation, technology and drivers for RE – and comparison with other countries, mid-term report submitted to NDRC October 2014
19	Policy	Alashan PV development, analysis of the PV basis and conditions for Alashan and development of policy proposal			Alxa & NDRC, 60.000 RMB	2013 / 11	2014/3		Ongoing	
20	Policy	New Mechanisms for Energy Taxation	Analyse present energy taxation and RE subsidies and propose new measures for financing and regulation		Cooperation with IISD Canada and Denmark RMB 290.000	2014	2014/12		Ongoing	Using financial mechanisms for regulation
21	Policy	Large Scale Energy research for increase of hydro power	Long term electricity competitive analysis, power development, consumption analysis on integration of hydro power		Cooperation with Three Gorges group. – expected RMB 2 Mio	2014	2014/12		Ongoing	Seminars hosted by IISD ongoing to disseminate and develop results

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22	Policy	Off shore wind power policy research	Focussing on price, management at sea, security risks and integration to the net		ASDB estimated USD 100.000	2014	2015		Ongoing	Important political and CNREC priority
23	Policy	13 th five year plan , 2016 to 2020	Proposed long term planning to implement Chinese RE policies	Pm: Gao Hu, Sh Jingli Tao Ye Ren Dong Ming Xie Xuxuan	Energy Foundation USD 150.000	2014			Ongoing	This will take over the 12 th five year plan and set targets for RE increase and role of stakeholders and RE technologies
24	Policy	20 % non-fossil fuel target	Setting more realistic targets for RE inclusion	Pm: Gao Hu, Sh Jingli Ren Dong Ming Xie Xuxuan CNREC Project Many Depts. involved	NEA RMB 100.000	2014			Ongoing, building on 5 and 13	The target is to set more precise dates and tools for this achievement
25	Policy	Reinventing Fire	A more comprehensive strategy for a new energy scenario taking into account power consumption by transport, industry and building- using the CREAM EDO model	PM:	Partners: ERI, US RMI, US LBL	June 2014	June 2015		Ongoing	Focus seems to be on matching energy production and consumption in line with the broad spectrum of CNREC research done
26	Policy	Guangzhou New Energy Development Strategy	Strategy for deployment of biomass, solar & bio-thermal energy in Ghuangzhou, incl. long term and mid-term scenarios	PM:		March 2014	November 2014		Ongoing	Combining capacities on scenario analysis with provincial/urban focus
27	Policy	New energy, new urbanisation & new life strategy	Overall action plan for NEA for inclusion of RE in urban planning	PM:	Client: NEA	June 2014	December 2014			Opportunity to influence urban planning from an overall level

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28	Policy	Benefit mechanism for scaled RE integration based on solar and wind to scale up RE in power mix	Using pricing and incentives for more effective integration RE	PM:	Client: NDRC	September 2014	?			Using CNREC knowledge on RE forms and pricing mechanism
29	Policy	Study on potential cost reductions for RE	Also analysing environmental cost related to fossil fuel based energy	PM:			Draft submitted June 2014			Underlining importance of economic aspects of energy production and consumption
30	Policy	Financing system to support long term RE looking at tax	Analysis of tax systems internationally on RE as well as carbon taxes to secure financing, sustainability and financing of RE	PM:	Energy Foundation USD 150.000		Draft submitted September 2014			Linked to previous projects (incl. 15) on RE financing
31	Policy	Revision of Power Quota Mechanisms	Use of quota measures to calculate and supervise most economical RE power use	PM:	Client NEA funded by CRESP		Completed August 2014			Continuation of earlier research of power quota systems (1)
32	Policy	Heating supply guide manual, based on heating strategy research	Strategy research to be used to for heating policy making as part of work to establish RE heating platform	PM:	Client: NEA	June 2013	Draft submitted May 2014 for further elaboration			Indication of the importance gained by RE heating
33	Policy	Jiangxi new energy industry development planning	Supporting planning for increase of RE in Jiangxi province	PM:			Completed October 2014			In line with work done for other provincial governments

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34	Policy	Guoneng Biomass planning company research	The company seeks to plan and invest in biomass power plants all over China and wanted support for planning	PM: Hu Runqing	Guoneng Biomass planning company					In line with CNREC strategy to support links to industry (incl. state owned companies)
35	Policy	Establishment of the CVIG working group and secretariat	Aim is to create a professional forum for joint discussion for stakeholders in RE and energy sector reform to promote RE	PM: Kaare Sandholt Wng Hong Fang						Very good presentations from Energinet on netintegration issues and solutions
36	Policy	Energy transition to improve the ecological cultivation in China	Aim to combine ecological agriculture and RE use to promote a more environmentally sustainable economy in China		AMR (?)				Small project	More in the environmental area that the majority of CNREC projects
37	Policy and industry	Wind Power road map update	The Road Map is updated to taken into account most recent technology and lessons learned internationally							Relates closely to project 22 – feeds into overall policies
38	Policy and Industry	Wind Power optimisation, cost calculation and subsidies			NEA & NDRC					Original work dates back to 2013; new work feeding into overall policy and pricing plan
39	Policy	Off shore wind power policy support research	Looking at market, pricing and technology as well as distance and connection issues		NEA & NDRC			Started		For policy making on off shore wind power Related to 38
40	Policy	Off shore wind power development trends and policy research incl. tariffs	Feeding into overall policy system and framework				End of 2013			Relates to project 7, 22 and 37 on increase of wind power

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41	Policy	Integration of wind to the power system, incl. Dialogue with EU on RE integration	Important to deal with issues on curtailment of wind	With Beijing Huajian Power design and Research and Danish Experts	NDRC		Draft Report June 2014			Part of overall system integration
42	Policy	Edit Global off shore wind power development and outlook			NEA	2013	2014			Part of international relations
43	Policy	Pricing policy research for Bio-gasification	Aim is to fit Bio gas into the overall financial policy for RE		NDRC					Deals with the price aspect of Bio mass
44	Policy	Study of Mechanism of New Energy Power to Grid	Aim is greater system integration	Shi Jingli	NEA			RMB 100.000		Emphasis on system integration
45	Policy 产业部	Wind power monitoring and evaluation system 风电监测和评价体系研究	long term follow-up需要长期跟进 main issue is to get wind farms connected to the grid	PM: Gao Hu 王红芳	200.000 RMB			submitted to management approach已提交管理办法, includes daily work to provide information to stakeholders. Important that knowledge gained feeds into general knowledge base and strategy of CNREC.	Completed feeding into research on wind power.	Taken over from Industry Department

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46	Policy	MMS for renewables	Measurement, monitoring and regulation of renewables		CRESP Phase II USD 60.170					Linked to previous projects on regulation and monitoring

2.2 Monitoring Framework Industry Department

Monitoring Framework CNREC & RED, Performance Indicators CNREC, Industry Department

Project no.	Department 所属部门	Title 课题 (项目) 名称	Project Objective and outcome 项目目标和产出	Team and consultants 团队和咨询专家	Financing 资金来源	Start time 拟开始时间	End time 拟结束时间	Status 项目状态 May 2013	Status March 2014	Status October 2014
Z1105 1	Industry 产业部	新能源城市建设国家行动方案研究 New Energy City Project	Research Report 研究报告	PM: Ren Dongmin, Hu Runqing 高虎、赵勇强、秦世平、张正敏、陶冶、郑瑞澄、李琼慧、韦志远、李忠、祁和生、沈德昌、丁航、郭志强	EF G-1101-13724:120,000 dollars 美国能源基金会 G-1101-13724 : 12 万美元	2011.4.1	2012.3.31	Completed and being followed up. Important to discuss how the New Energy City Project may be used to promote the strategic goals of CNREC.	WB and CRESP supported completion	New Phase under preparation
Z1110 2	Industry 产业部	New energy city development plan in Yuncheng city 运城市新能源示范城市发展规划研究	Research Report 研究报告	PM: Ren Dongmin, Hu Runqing 赵勇强、孙培军、窦克军、朱顺泉、袁婧婷	The Government of Yuncheng City: 500,000 yuan 运城市人民政府 : 50 万元	2011,12	2012,7	Completed and being followed up. Important to discuss within CNREC whether a model can be developed for energy city planning, which can be scaled up and improved in terms of professional and RE contents.	Contributed City planning concepts	Yungcheng remains stakeholder important to CNREC
Z1201 3	Industry 产业部	Geothermal Energy development plan of the 12th Five-Year 地热能开发应用“十二五”计划	Research Report 研究报告	PM: Gao Hu 赵勇强、胡润青、张成强等	GEF/世界银行支持项目 (CRESP) : 5.6 万美元	2012,3	2012,7	Completed Important to discuss whether the geo thermal energy plan may feed into more projects to be carried out by CNREC	Included in the evaluation of the five year plan	Geothermal included in new projects
Z1205 4	Industry 产业部	Evaluation of wind-powered heat pump in Jilin 吉林省风电供热示范项目实施效果评价	Research Report 研究报告	PM: Han Wenke, Gaohu 时景丽、赵勇强、张成强	China Datang Corporation Renewable Power Co., Limited by Share Ltd Jilin company: 250,000 yuan 中国大唐集团新能源股份有限公司吉林公司 : 25 万	2012.3.1	2012.7.31	Completed Important to ensure that lessons learned on wind powered heating feeds into other CNREC research.	Feeding into general research on use of wind in heating	Wind for heat continued important topic

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					元					
Z1207 5	Industry 产业部	Integrated Application and Planning for Wind Power Accommodation in Changling 促进长岭风电市场消纳的综合利用规划研究	Research Report 研究报告	PM: Gao Hu 赵勇强、秦世平、胡润青、罗志宏、尹菁菁、张成强	Changling Tianrun wind power limited: 400000 yuan 长岭县天润风电有限公司: 40万元	2012.6.18	2012.8.31	Completed. Important to discuss how lessons learned from Changling may feed into advise by CNREC policy and strategy advice.	Used in general research on wind at provincial level	Changling key stakeholder for CNREC
Z1208 6	Industry 产业部	Policy research on distributed energy 分布式能源发展模式 and 经营管理方式研究	Research Report 研究报告	Pm: Ren Dongming、Hu Runqing 高虎、赵勇强、秦世平、陶冶、王斯成、朱顺泉、孙培军、窦克军、张成强、杨少楠	US Energy Foundation (EF) G-1205-16206 : 120,000 dollars 美国能源基金会 G-1205-16206 : 12万美金	2012.7.1	2013.6.13	Close to completion, final report out for comments. Important to discuss how lessons learned on distributed energy may feed into overall policy and strategy advice from CNREC.	Distributed energy remains a priority to get power to rural districts	Still priority topic
Z2010 7	Industry 产业部	Development planning of new energier city in Chengde 承德新能源示范城市发展规划	Research Report 研究报告	PM: Ren Dongming 胡润青、孙培军等	Chengde development and Reform Commission: 600000 yuan 承德发改委: 60万元	2012,9	2013,1	Completed. Important to assess how lessons leaned on energy planning in Chengde may feed into general policy and strategy advice by CNREC.	Feeding into the planning of energy city support	Completed Chengdu remains stakeholder to CNREC
Z1209 8	Industry 产业部	Development planning of new energier city in Sanshui district 三水区新能源示范城市发展规划	Research Report 研究报告	PM: Gao Hu 胡润青、赵勇强、孙培军等	Development Planning and Statistics of Foshan Sanshui District : 690,000 yuan 佛山三水区发展规划和统计局 : 69万元	2012,8	2012,9	Completed Important to assess how lessons leaned on energy planning in Chengde may feed into and be scaled up as part of general policy and strategy advice by CNREC.	Sanshui has special characteristics which feed into general research	Completed Sanshui partner in new project

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Z1211 9	Industry 产业部	Development mode of distributed energy 分布式能源发展模式和经营管理方式研究	Research Report 研究报告	PM: Ren Dong Ming 胡润青、高虎、赵勇强、秦世平、陶冶、朱顺泉、孙培军、窦克军、张成强、杨少坤	NEA:80,000 yuan 国家能源局: 8万元	2012.7.1	2012.12.31	Final report is out for comments. Important to secure that lessons learned and knowledge on distributed energy feeds into the general strategy and policy research and advice by CNREC.	Feeding into general research on distributed energy	Distributed energy still key priority
Z1216 10	Industry 产业部	Construction scheme of New energy demonstration zone in Ningxia 宁夏自治区新能源综合示范区建设实施方案	Research Report 研究报告	PM: Han Wenke & Gao Hu 胡润青、罗志宏、张成强、王红芳、刘坚	Ningxia development and Reform Commission: 1,500,000 yuan 宁夏自治区发展改革委: 150万元	2012.11.27	2013.7.30	Demonstration project to provide input to Ninxja, looking at grid connection issues. Important that lessons learned on grid connection issues feed into overall policy and strategy research and advice by CNREC:	The report is now available for evaluation – uncertain whether the department will get the final payment	Ningxia stakeholder to CNREC
meeting 11 会议	Industry 产业部	The meeting of solar thermal utilization 太阳能中高温热利用峰会	meeting 会议	PM: Hu Runqing 胡润青、孙培军等	Funded by IEA			Completed. Important that lessons learned and new knowledge feeds into the general knowledge base of CNREC. Important to consider how IEA meetings may play a role in the strategic development of CNREC.	The main mode of working is workshops where new contacts were made and knowledge shared.	Completed
Training 会议 12	Industry 产业部	The training of New energy City (Dali) 新能源城市培训 (大理) This is in Yunan City	meeting 会议	PM: Hu Runqing	RED, EF and local government funding. Important to have overview of costs and benefits. Funding from US Energy Foundation RMB 500.000			Completed Spring 2013. Important to consider how training events with potential clients feed into the strategy for financial and professional strengthening of CNREC:	Completed – now used at county level.	Yunan city still stakeholder to CNREC

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Daily Management 日常管理 13	Industry 产业部	Wind power monitoring and evaluation system 风电监测和评价体系研究	long term follow-up 需要长期跟进 main issue is to get wind farms connected to the grid	PM: Gao Hu 王红芳	200.000 RMB			submitted to management approach 已提交管理办法, this includes daily work to provide information to stakeholders. Important that knowledge gained feeds into general knowledge base and strategy of CNREC.	Completed feeding into research on wind power.	Moved to policy Department
Daily Management 日常管理 14	Industry 产业部	Solar PV "double inverse" survey 光伏双反调查	日常跟踪 进度汇报	PM: Hu Runqing 朱顺泉	Important to have overview of costs and benefits.			This is daily research work. It is important to have effective mechanisms to share knowledge gained.	Daily research work for NEA	Daily research work for NEA
Daily Management 日常管理 15	Industry 产业部	Solar thermal electricity project - ADB 太阳能热发电项目-亚洲开发银行	Project preparation ,TOR 项目准备工作大纲	PM: Hu Runqing 孙培军、杨少楠、	ASDB			This project was not obtained partly related to NEA not prioritizing solar electricity due to price problems. Important to consider whether CNREC can influence NEA on this issue.	ToR Prepared and follow up with ASDP will take place	Still priority area
Daily Management 日常管理 16	Industry 产业部	Policy design and guide for new energy cities 新能源城市政策设计和申报指南		PM: Hu Runqing	Important to have overview of costs and benefits._ Energy Foudnation supporting with USD 100.000			Ongoing work in dialogue with cities. Important that knowledge on energy planning for cities feeds into overall knowledge base, policy and strategy advice by CNREC.	Clean energy perspective now used more widely	Relevant for new Phase

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Daily Management 日常管理 17	Industry 业部	EC2: CSP research 热发电利用 this is research between China, EU,		胡润青、杨少楠	20,000 Euro 2万欧元	2012,11	2013,3	Concept document was submitted to VEA 概念文件已提交 VEA, almost completed. Important that knowledge on CSP feeds into overall knowledge base, policy and strategy advice by CNREC.	This is energy efficiency work feeding into the cooperation with EC	Feeding into partnership with EU
Daily Management 日常管理 18	Industry 业部	Roadmap of biomass liquid fuel 生物质液体燃料发展路线图:项目设计 with Tsinghua University	TOR, Tender, bid evaluation, 工作大纲, 招标, 评标	PM: Qin Shiping 胡润青、张庆分、窦克军	RMB 900.000, who is funding this? – partly RED partly Chinese funding,	2013	2014	The work included advice on bidding on RE - DEA supported this. Important that this feeds into the general knowledge base and strategy advice on CNREC.	Work is done with Tsinghua University, ToR is out for comments and tendering awaited.	Now developed to present scenarios for 2015, 2020, 2030 and 2050
Daily Management 日常管理 19	Industry 业部	Roadmap of solar thermal applications 太阳能发展路线图项目: 设计	TOR, Tender, bid evaluation, 工作大纲, 招标, 评标	PM: Sun Pei Jun 胡润青、朱顺泉	Who is financing this – RED?	2013	2014	ToR is being developed with China RE Society. Important that this takes into account practical and theoretical knowledge on solar thermal in CNREC.	Ongoing work – scenarios for 2020, 2030 and 2050 prepared	Presentations in Shanghai, by now 200 GW installed aim for 2030 is 800 GW and for 2050 - GW2000
Daily Management 日常管理 20	Industry 业部	Roadmap of biomass non liquid fuel 非液体燃料生物质路线图	TOR, Tender, bid evaluation, 工作大纲, 招标, 评标	PM: Qin Shiping 胡润青、张庆分、窦克军	RBM 500.000	2013	2014	Signed 1 year contract with Guangjo Energy Research Institute. Important that this is closely integrated with other work on	Ongoing work – scenarios for 2020, 2030 and 2050 prepared	Emphasis on inclusion of new technologies and distributed energy
Daily Management 日常管理 21	Industry 业部	System dispatch with wind power forecasting 基于风电预测的系统调度		PM: Zhao Yongqiang	No funding			This is daily work - data collection and management. Important that knowledge gained is taken into account in other assignments	Industry Dept. mainly providing supervision to this project	Part of general system research

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								including components on wind power. Important to take into account DEA knowledge in this field.		
Daily Management 日常管理 22	Industry 产业部	Research of wind power grid-connected operation and accommodation 促进风电并网运行与市场消纳研究课题	Progress tracking, reporting progress 进展跟踪, 进度汇报	PM: Gao Hu 罗志宏、王红芳	No funding			Support to research on 10 projects. Important that knowledge gained is taken into account in other assignments including components on wind power. Important to take into account DEA knowledge in this field.		Part of grid research in the future
23	Industry 产业部	Solar energy resource evaluation 太阳能资源评价		PM: Shi Jingli	How is this funded?,			Draft document sent to NEA. Important that this feeds into the overall knowledge base, strategy and policy advice by CNREC.		Completed feeding into solar research
24	Industry 产业部	Policy research on wind power pricing 风电价格政策研究		PM: Shi Jingli	How is this funded?,			Draft document sent to NEA. Important that this feeds into the overall knowledge base, strategy and policy advice by CNREC. Knowledge of DEA should be taken into account.		Feeding into feed in tariff policies
25		Guanzhu New Energy Planning		PM: Gao Hu	Being negotiated			Draft report out for comments. Important that knowledge gained feeds into CNREC knowledge base and strategy and policy advice.	CNREC did not get this project	Guanzhu still partner to CNREC

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26		National New Energy City Action Plan		PM: Hu Runqing	No funding. Important that costs and benefits are calculated as an element of the financial planning and acquisition strategy of CNREC.			This seems a strategic activity which should be given priority in planning for the sustainability of CNREC.	This is feeding into new research on urban energy policies.	Still being prepared under CRESP
27		National RE Thermal Action Plan		PM: Hu Runqing	No funding. Important that costs and benefits are calculated as an element of the financial planning and acquisition strategy of CNREC.			Initiated within the last 6 months. This seems a strategic activity which should be given priority in planning for the sustainability of CNREC.	Documentation to promote RE in China	Part of overall RE planning
28		Sino EU EC2 New Energy City Project – what is ECZ?		PM: Hu Runqing	How is this financed? – by EC, 129.780 Euro			Initiated within the last six months. Important to build on latest CNREC knowledge.	Being negotiated	Agreement on Financing reached
29		Jianxi, New Energy City Action Planning, PV is part of this project		PM: Gao Hu	RBM 500.000 – Jianxi Government			Initiated within the last 6 months. Important to build on latest CNREC knowledge on PV and take into account international research.	Feeding into provincial research	Jianxi still partner to CNREC
30		Global renewable Energy Outlook, 22+, 2030 & 2050 , Client is NDRC		PM: Gao Hu	How is this funded? – Danish and Chinese funding			Initiated 2012 knowledge on all energy types should be taken into account. This seems a strategic activity which should be given priority in planning for the sustainability of CNREC.	Main activity drawing from all depts.	Renewable energy outlook important in CIFF phase

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31	Industry	New Energy City Concept Improvement	Follow up research investigation and preparation of performance index for energy cities	PM: Hu Runqing Almost all dept. incl. Sun Peijun & Jin Yupin	CRESP - Almost USD 200.700 and	2013/10	2014/ 7		Won in competitive bidding	Financing agreement revised
32	Industry	Sanshui PV demonstration project on roof tops	Development of PV demonstration Zone	PM: Gao Hu Almost all departments	Sanshui provincial Government, RMB 400.000		2014/7		Draft report awaiting payment	Supporting development of provincial regulation, Financing agreement reached
33	Industry	Improved integration of wind power in Baicheng Jilin	Danish assistance to show how flexible operation of the electricity network can take place in practice		Jilin province	2013	2014			Using energy city contacts to demonstrate solutions to integration problems
34	Industry	Distributed solar energy roadmap and policies	Use of solar PV in remote/ rural areas	Drawing from project 5			June 2014			Input to possible applications of solar PV
35	Industry	Financing of distributed solar PV	Wider distribution of solar PV							Financing key policy instrument
36	Industry	Solar PV for Inner Mongolia, Alxa	Application of solar PV. Full feasibility and technical study		Alxa provincial government		Nov 2013	January 2014		Practical application of solar PV at the provincial level
37	Industry	Solar PV monitoring system for six western provinces – involving 3 year action plan	Application of solar PV more widely	With Shanghai Solar Technology Company						Addressing the need to be independent from the Grid

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38	Industry	Solar PV Technology Innovation Technology	Capacity building on solar PV					December 2014		Technological development incl. e.g. batteries
39	Industry	Geothermal strategy	Increase of Geothermal energy volume, input to 13 th five year plan	With Beijing Jike – closely related to project 3				December 2014		Increase share of Geothermal as energy and RE source – more realistic policy objectives
40	Industry	Research on PV Market Development			RMB 451.000		Late 2014			Market aspects of PV (?)
41	Industry	Guangzhou new energy planning	Analysis of energy supply and demand to determine market and technology		Guangzhou Development and Reform Commission 600.000 RMB	Early 2014				Provincial planning with overall coverage

Monitoring Framework CNREC, Demonstration Project Department, Most active projects taken over by Industry Department

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1	Demonstration project 示范项目 Now Industry	Verification of biomass generation projects for RE electricity price subsidy 生物质能发电可再生能源电价附加资金补助项目审核确认	Assist NEA to verify the qualification of biomass generation projects which applied for RE electricity price subsidy	PM: Qin Shiping CNREC: Yin Jingjing, Zhang Qingfen, Liu Jiandong	None	2012,6	2012,7	Finished Knowledge gained too feed into general knowledge base of CNREC.	Feeding into present biomass research	Now part of biomass roadmap
2	Demonstration project 示范项目 Now Industry	Co-organization of Summarize Workshop of Sino-German Personnel Training for Wind Energy 联合承办中德风电人才联合培养十周年总结大会	Cooperated with Northwestern Polytechnical University (NWP) to organize the workshop. Request from ERI to implement this	CNREC: Yin Jingjing	Northwestern Polytechnical University (NWP), USD 300.000	2012,7	2012,9	Completed Possible implications for CNREC sustainability to be considered.	Feeding into present cooperation with Germany	Sino German cooperation continuing mainly managed by international department
3	Demonstration project 示范项目 Now Industry	Training on Green Energy County Demonstration (GECD) Program 绿色能源示范县培训 - 120 people were trained	GECD program promotion and to help related counties to have capacity in GECD plannings and implementation proposals. Training materials will be prepared, and technology investigation and training courses will be conducted.	PM: Qin Shiping CNREC: Luo Zhihong, Yin Jingjing, Dou Kejun, Zhang Qingfen; Consultant:	EF, MOF, RED	2012,5	2013,12	Ongoing Strategic approach to using contacts and knowledge gained for future strategy and sustainability of CNREC to be considered.	Feeding into general provincial and urban research	New phase of new energy cities under consideration - by CRESP
4	Demonstration project 示范项目 Now Industry	Management of Green Energy County Demonstration (GECD) Program 绿色能源示范县项目管理	Assist NEA to implement GECD program. Defining GECD data requirements; improving GECD regulations; GECD plans and implementation proposals evaluation; monitoring and inspecting GECD projects progress	PM: Qin Shiping CNREC: Luo Zhihong, Yin Jingjing, Dou Kejun, Zhang Qingfen; and several external Consultant:	MOF - RMB 1.000.000	2012,1	2015,12	This is a mid-term evaluation which is On-going Implications for sustainability and strategy for CNREC to be considered.		New phase being prepared by CRESP - part of preparation tendered to CNREC

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5	Demonstration project 示范项目 Now Industry	Training on New Energy City Demonstration (NECD) Program 新能源示范城市培训	NECD program promotion and to help related cities to have capacity in NECD plannings and implementation proposals. Training materials will be prepared, and technology investigation and training courses will be conducted.	PM: Qin Shiping CNREC: Hu Runqing, Luo Zhihong, Yin Jingjing, Sun Peijun; Consultant:	EF, ADB, RED RMB 200.000 for one workshop	2012,7	2013,12	Ongoing Implications of stakeholder relations built for sustainability and strategy for CNREC to be considered.	NEA is supporting and 81 New Energy Cities are being assessed	New phase of new energy cities under consideration - by CRES
6	Demonstration project 示范项目 Now Industry	Management of New Energy City Demonstration (NECD) Program 新能源示范城市项目管理	Assist NEA to implement NECD program. Defining NECD data requirements; drafting and improving NECD regulations; NECD plans evaluation; monitoring and inspecting NECD projects progress	PM: Qin Shiping CNREC: Hu Runqing, Luo Zhihong, Yin Jingjing, Sun Peijun; Consultant:	EF, RED, this is research work for the US Energy Fund the value for 2014 is USD 160.000	2012,4	2015,12	Ongoing Implications of stakeholder relations built for sustainability and strategy for CNREC to be considered.	Feeding into research at provincial and urban level	New phase of new energy cities under consideration - by CRES
7	Demonstration project 示范项目 Now Industry	Training on Micro Grid Demonstration (MGD) Program 微电网示范项目培训	MGD program promotion and to help related cities to have capacity in MGD plannings and implementation proposals. Training materials will be prepared, and technology investigation and training courses will be conducted.	PM: Qin Shiping CNREC: Luo Zhihong, Yin Jingjing; Consultant:	MOF, Longyuan Corp.- local government is financing this with RMB 200.000	2012.10	2014,12	NEA requested this and the work is on-going with local governments Implications of stakeholder relations built for sustainability and strategy for CNREC to be considered.	Not completed due to operational constraints but considered as part of distributed energy	Important part of new energy system
8	Demonstration project 示范项目 Now Industry	Management of Micro Grid Demonstration (MGD) Program 微电网示范项目管理	Assist NEA to implement MGD program. Defining MGD data requirements; drafting and improving MGD regulations; MGD plans evaluation; monitoring and inspecting MGD projects progress	PM: Qin Shiping CNREC: Luo Zhihong, Yin Jingjing; Consultant:	EF, MOF, EF will provide funding for this at a later stage	2013,1	2015,12	Initiated Needs to fit into CNREC knowledge base. Implications for strategy for CNREC to be considered.	Projects are ongoing - support to meetings and communications and feedback on reports - close cooperation with the embassy	Important part of new energy system
9	Demonstration project 示范项目 Now Industry	Management of RED Component 2 Program 中丹项目第二部分管理	Danish-Chinese cooperation on RE initiatives. RED program promotion, proposals evaluation and contracts signed will be conducted.	PM: Luo Zhihong CNREC: Karre, Han Cuili, Fan Lijuan	RED fundng the proejcts with DKK 30.000.000	2012,1	2014,12	On-going monitoring system to be developed. Progress to be assessed and		Will be completed in December with workshop and completion report

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								sustainability of Danish Sino relations should be considered.		
10	Demonstration project 示范项目 Now Industry	Management of Europe China Energy Centre 2 Program 中欧清洁能源项目管理	Platform of EU-China cooperation on RE. Preparing annual implementation plan and development strategy for the next 2 years; project promotion; workshops and seminars	PM: Qin Shiping CNREC: Han Cuili, Zhang Wanjun	EC2 Euro 1.000.000	2012,3	2014,12	Ongoing Needs to be considered how this fits into strategy for sustainability of CNREC	Continuation discussed with partners	EU cooperation continues
11	Demonstration project 示范项目 Now Industry	CRESP Phase II Preparation 中国可再生能源规模化发展项目二期准备	CRESP Phase II initiated as plan. Post evaluation and audit for CRESP Phase I; organization of CSP study tour; appraisal of CRESP Phase II; preparing PIP; WB team mission; financial affairs; and Launch of CRESP Phase II	PM: Luo Zhihong CNREC: Yin Jingjing, Han Cuili; Consultant:	WB	Expected Autumn 2013		Contract has been won but will need to be placed outside and independently outside CNREC Status and implications for CNREC needs to be considered.	Two people leaving the Department for CRESP, but CRESP contracts have been won by CNREC	Taken over by CRESP
12	Demonstration project 示范项目 Now Industry	Management of New Energy Comprehensive Demonstration Region (NECDR) Program 新能源综合示范区项目管理	Assist NEA to manage Inner Mongolia and Ningxia NECDR program to try to find of the solution of RE grid integration	PM: Luo Zhihong CNREC: Yin Jingjing, Wang Hongfang & industry Department	MOF - no funding - why can provinces not fund?	2012,4	2015,12	Ongoing Knowledge sharing and role in CNREC future strategy important.	Next phase under preparation	Discussion with Inner Mongolia and Ningxia on new assignments
13	Demonstration Project Now Industry	Ningxia and Inner Mongolia as renewable energy Jewel	Developing model for use of RE in particular integration of wind energy	PM: Gao Hu		2014			Politically very important related to planned transmission lines	Discussion with Inner Mongolia and Ningxia on new assignments

2.3 Monitoring Framework REIAC

Monitoring Framework CNREC & RED, Performance Indicators CNREC, REIAC

Project no.	Department所属部门	Title课题（项目）名称	项目目标和产出 Objective and outcome	Team and consultants团队和咨询专家	Financing资金来源	Start time拟开始时间	End time拟结束时间	Status May 2013 项目状态	Status March 2014	Status October 2014
1	REIAC信息分析中心	REIAC Portal Technology Development信息中心门户网站技术开发	Design the Portal system that include CMS, Library and Gallery System, the aim is to provide exact data on RE	PM: Liu Jiandong Hou Wensen, Cheng wengang, Anja, GKZX Company	RED	Jan. 2012	Aug. 2012	Platform is completed but regular updates will take place. To what extent does the platform support knowledge sharing internally and externally?	Portal work is continued as basis decision support service	Ongoing work – new data and new access features added
2	REIAC信息分析中心	REIAC Portal Content Construction信息中心门户网站内容整理	Collect and editing the content base on the Portal structure	PM.: Wang Wei Chang Zhifang, Zhang Pei, Lu Lisha, Gao Hu and CREIA - working on regular update	RED	Jan. 2012	Aug.2012	Regular updates is taking place To what extent does the platform support knowledge sharing internally and externally. Is new data entered and are researchers using the platform?	More advanced analytical tools and presentations developed	Updated with data from of power companies being fed in directly
3	REIAC信息分析中心	REIAC Portal Management and Operation信息中心门户网站管理和维护	Daily information collection and editing of Portal	PM: Wang Wei Chang Zhifang, Zhang Pei, Lu Lisha	RED	Jan. 2012	Dec. 2012	Regular updating taking place Questions as 1 and 2	Dialogue with NEA to make sure information needs are taken into account	Update and maintenance part of general work
4	REIAC信息分析中心	National Project Management System Development国家项目管理系统开发 now including 56 counties and 156, partly	Design the system to support project apply, monitor and reporting of Green County	PM: Liu Jiandong Dou Kejun, Lu Lisha, Hou Wensen and Hao NingdaCompany	RED	May. 2012	Dec. 2012	The system was set op for the green county programme, but the plan is to use it more generally for project management and also for the Green Cities project to	A very substantial database available to guide cities	Supporting e.g. 3 GF preparations

Project no.	Department所属部门	Title课题（项目）名称	项目目标和产出 Objective and outcome	Team and consultants团队和咨询专家	Financing资金来源	Start time拟开始时间	End time拟结束时间	Status May 2013 项目状态	Status March 2014	Status October 2014
		based on new energy county project						start in 2013 How far has use of the system been strengthened internally and externally?		
5	REIAC信息分析中心	China Renewable Energy Magazine 中国可再生能源杂志	Editing and publish of magazine quarterly, % magazines were published last year - five to be published in 2013	PM: Wang Wei Liu Jiandong, Zhang Pei	RED	Jan. 2012	Dec. 2012	The plan is to prepare a more simple version which will be published as a blog. Important that Magazine is used for building relations and financial sustainability.	New issue has been distributed causing much discussion e.g. on integration of wind power to the net	Latest issue on Integration and grid issues
6	REIAC信息分析中心	RE Data Manual 数据手册	RE data collect, process and book editing	PM: Wang Wei Zhang Aling, Liu Jiandong, Zhangpei	RED	Jan. 2012	July. 2012	Simple version completed in 2012 with 4 sections 1. economics, 2 RE Chine, 3 RE internationally 4 Re planning. 2013 to include scenario data and be sold at RMB 80. Summary to be posted on web site. How far is the Magazine based on CNREC data and how much is it used internally and externally – also for relation building?	Data book is very popular and widely distributed – REIAC is considering to ask payment for the book	2013 latest edition
7	REIAC信息分析中心	RE Database System Technology Development 可再生能源基础数据库开发	Analysis the requirement of database; Design the database architecture and develop the system - partly based on	PM: Liu Jiandong Cheng Wengang, Hou Wensen and ZJZQ Company	RED	Jan. 2012	Dec. 2012	In progress to adapt structure and obtain better data. Data on solar and wind is still missing. Has data based been updated and is	Information needs of NEA is in particular being served now but data base also functions as library for staff.	Improved to make accessibility more easy

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			data input from NEA on Biomass - the data for other forms of RE is being requested					it used internally and externally?.		
8	REIAC信息分析中心	RE Data Collection and Processing可再生能源数据收集和整理	Collect and process the data from NEA and public , and updating the database. - this is for the data base under project 7 and on-going work	PM: Liu Lisha Liu Jiandong	RED	Jan. 2012	Dec. 2012	In progress to adapt structure and obtain better data. . Data on solar and wind is still missing. How far is data collection process is there close cooperation in CNREC on this?	Trying to improve consistency and quality of data	Discussion with researchers on form of data – may be addressed by new communications expert
9	REIAC信息分析中心	Weekly Newsletter每周信息摘要	Editing the newsletter for NEA and partners weekly. 49 newsletters were published last year. - 18 newsletters have been published year and	PM: Wang Wei Chang Zhifang	RED	Jan. 2012	Dec. 2012	Being distributed to a wide audience. The plan is to prepare a short version to become accessible on the web site. How far is this used in the effort to make CNREC sustainable through stakeholder relations?	Being distributed to an increasing list of recipients, causing much discussion and feed back.	Ongoing work number of subscribers increasing
10	REIAC信息分析中心	REIAC Infrastructure Construction信息中心基础设施建设	Design and development the IT infrastructure to support the portal and other application systems.	PM: Liu Jiandong Cheng Wengang, Hou Wensen and Ecastle company	RED	May. 2012	Dec. 2012	Initial structures have been developed and regular maintenance and updating is taking lance. How far is the work?	Daily work with updating and maintenance	Daily work with updating and maintenance
11	REIAC信息分析中心	REIAC Infrastructure Operation and Maintenance信息中心基础设施运行和维护	IT system monitor and maintain daily	PM: Hou Wensen	RED	Jan. 2012	Dec. 2012	Initial structures have been developed and regular maintenance and updating is taking	Daily work with updating and maintenance	Daily work with updating and maintenance

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								lance. How far is the work is it supporting knowledge sharing?		
12	REIAC信息分析中心	Policy Decision Support Platform Demo Development 政策支持平台演示版开发	For support to Modelling system and the output visualization; Integrate the subsystem into the platform	PM: Liu Jiandong Xiong Weiming, Xie Xuexuan, Hou Wensen, Ma Kepeng, Fucong	RED	Nov. 2012	Jan. 2013	The platform has been developed and is being upgraded to be able to demonstrate more data and models. The aim is to develop a full Decision Support system based on all RE data. How far is the work is the data base supporting knowledge sharing and stakeholder relations.		Policies for more countries being added
13	REIAC	Wind power monitoring and evaluation system	Monitoring, generation and integration of wind to the grid to support authority control			May 2013				Providing yearly and monthly data
14	REIAC	National RE power generation statistics	For monitoring and research RE	PM: Liu Jiandong		2014				General updating of information database to be continued by CIFF

2.4 Monitoring Framework International Department

Monitoring Framework CNREC & RED, Performance Indicators CNREC, International Department

Project no.	Department 所属部门	Title 课题 (项目) 名称	项目目标和产出 Objective and outcome	Team and consultants 团队和咨询专家	Financing 资金来源	Start time 拟开始时间	End time 拟结束时间	Status May 2013 项目状态	Status March 2014	Status October 2014
1	International 国际部	International Partnership agreements and MoUs		PM: Wang Zhongying	It is important that cost in terms of work hours is taken into account in the financial and business planning for CNREC.			Ongoing. It should be possible to develop a standardised model to be used on all projects.	Several new initiatives taken for example with Norway and Germany	Agreement with Ministry of Climate Energy and Buildings (MCEB)
2	International 国际部	Regional cooperation (Tai Wan) 地区交流合作 (台湾)		PM: Zhao Yongqiang	Surprising if NDRC or NEA would not fund this given its potential strategic importance.			Ongoing Important to consider how this fits into the overall strategy and long term plan for CNREC.	Communications and meetings organized	Continuing
3	International 国际部	International trade cooperation in RE sector 可再生能源部门国际交流合作		PM: Zhao Yongqiang Xie Xuan and Shi Jingli	It is important that cost in terms of work hours is taken into account in the financial and business planning for CNREC. With IISD Canada			Ongoing Important to consider how this fits into the overall strategy and long term plan for CNREC.	External funding has been obtained	Continuing
4	International 国际部	China-US RE cooperation 中国-美国可再生能源协作		PM: Zhao Yongqiang	Surprising if NDRC or NEA would not fund this given its potential strategic importance.			Ongoing Important to consider how this fits into the overall strategy and long term plan for CNREC.	Communications and meetings organized - several initiatives financed	Extended with start of CIFF
5	International 国际部	Chinese renewable energy technology catalogue 中国可再生能源技术目录		PM: Qi Linlin				Moved to REIAC		Managed by Industry Department under revision for greater research quality

Project no.	Department 所属部门	Title 课题 (项目) 名称	项目目标和产出 Objective and outcome	Team and consultants 团队和咨询专家	Financing 资金来源	Start time 拟开始时间	End time 拟结束时间	Status May 2013 项目状态	Status March 2014	Status October 2014
6	International 国际部	Asian-Pacific Renewable Energy Policy Information Collection 亚太可再生能源政策信息收集		PM: Wang Zhongying with Kaare Sandholt and Qui Linlin	It is important that cost in terms of work hours and benefits is taken into account in the financial and business planning for CNREC.			Completed It is important that the knowledge gained feeds into the knowledge base, strategic planning for CNREC as well as advice on strategy and policy advice given.	Completed - report delivered to UNESCAP June 2013	Cooperation continues
7	International 国际部	The Renewable Energy Policy Profile for the Key Renewable Energy Developed Countries(Denmark/Germany) 丹麦德国可再生能源政策概览		PM: Fan Lijuan & Han Yu	It is important that cost in terms of work hours is taken into account in the financial and business planning for CNREC. - RMB 50.000 to cover publication fee			Global RE report completed, but cooperation with Germany and Denmark on-going. Important to work closely with DEA on this. Important that knowledge gained is taken into account in knowledge base and assignments of CNREC.	Integrated into Global Energy Report	Close cooperation with GIZ and Denmark continues
8	International 国际部	The World Wind Power Conference 世界风能大会		PM: Zhao Yongqiang	It is important that cost in terms of work hours is taken into account in the financial and business planning for CNREC.			Completed It is important that CNREC plans for how to use relations established at such events in future strategic planning of approaches to clients and cooperation partners.	Communications and meetings and conference organized - many contacts made	Success with many important participants
9	International 国际部	The China-Spain Cooperation 中国-西班牙合作		PM: Fan Lijuan				Put on hold as Spain is less active on RE, strategic implications should be discussed in strategic planning for CNREC.	Less active for a period due to lack of resources in Spain but now being revived	

Project no.	Department 所属部门	Title 课题 (项目) 名称	项目目标和产出 Objective and outcome	Team and consultants 团队和咨询专家	Financing 资金来源	Start time 拟开始时间	End time 拟结束时间	Status May 2013 项目状态	Status March 2014	Status October 2014
10	International 国际部	Global Green Growth Forum 全球绿色增长论坛	This implies on-going dialogue, forums on market systems and transition are established	PM: Wang Zhongying	It is important that cost in terms of work hours is taken into account in the financial and business planning for CNREC.			China made presentation at forum in Copenhagen.	Major policy discussions likely to be repeated annually	Attended by a delegation of 25 Chinese politicians and Officials - great attendance to Chinese presentations
11	International 国际部	Assistance to NEA regarding related foreign affairs 协助能源局开展相关对外交往事物		PM: Fan Lijuan	It should be considered to request NEA to fund this work directly.			Ongoing and taking approximately 30% of staff time, strategic implications and how to use this close relation should be discussed in strategic planning for CNREC.	Many ad hoc tasks on meetings, contacts and communication	Less intensive as NEA has upgraded own staff in this area
12	International 国际部	Cooperation with DEA 丹麦能源署协作		PM: Fan Lijuan	It is important that cost in terms of work hours is taken into account in the financial and business planning for CNREC. It should be assessed how much time this work will require in the long term perspective.			On going - mainly assistance in planning and implementation of missions and visits. In view of the limited time until the completion of the present contractual arrangement it is decisive that visits for the remaining 2014 is planned carefully taking into account the aim of professional and financial sustainability of CNREC.	Planning and monitoring of missions - support to set up work teams - Communications and meetings organized	Financial Mechanisms , District Heating missions
13	International 国际部	全球可再生能源概览 Status report of global renewable energy		PM: Gao Hu				Has been integrated into project 2 - project 1 or 3 ?	Annual work every year - serves as widely respected sourcebook	Still important work with REIAC

Project no.	Department 所属部门	Title 课题 (项目) 名称	项目目标和产出 Objective and outcome	Team and consultants 团队和咨询专家	Financing 资金来源	Start time 拟开始时间	End time 拟结束时间	Status May 2013 项目状态	Status March 2014	Status October 2014
14	International 国际部	中国可再生能源产业报告China RE industry report		PM: Ren Dongming	It is important that cost in terms of work hours and benefits is taken into account in the financial and business planning for CNREC.			2012 report completed and 2013 version is under preparation Important to consider how this distribution of the Report may support stakeholder relations.	This is now managed by the Policy and Industry Department	Still important work with REIAC
15	International 国际部	新能源和可再生能源年鉴章节New and RE yearbook 2012		PM: Wang Zhongying & Dou Ke Jun	It is important that cost in terms of work hours and benefits is taken into account in the financial and business planning for CNREC.			2012 version has been completed and 2013 version is under preparation	Widely distributed - net edition being planned	Still important work with REIAC
16	International 国际部	长城论坛Distributed solar 2012		PM: Wang Zhongying	It is important that cost in terms of work hours and benefits is taken into account in the financial and business planning for CNREC. - no funding			Conference on Distributed PV power Knowledge gained needs to be taken into account in the strategy for CNREC	Completed - large active audience	Mainly placed in Industry department
17	International 国际部	协助司里制定2013国际合作计划 international cooperation plan 2013 for NEA		PM: Fan Ljuan	Need to record hours to have overview of associated cost			Work includes support for study tours and international visits Knowledge gained needs to be taken into account in the strategy for CNREC	Support to NEA in international orientation of strategy	Less work due to more international staff in NEA
18	International 国际部	世界可再生能源政策法规汇编the policy and regulation selection		PM: Wang Zhongying	Need to record hours to have overview of associated cost.			Document is published by REIAC Not quite clear what the contents of the publication is.	Not updated in 2014	

Project no.	Department 所属部门	Title 课题 (项目) 名称	项目目标和产出 Objective and outcome	Team and consultants 团队和咨询专家	Financing 资金来源	Start time 拟开始时间	End time 拟结束时间	Status May 2013 项目状态	Status March 2014	Status October 2014
19	International 国际部	参与项目第二部分活动管理和评审 participation of C2 mangement and evaluation		PM: Gao Hu & Han Cuili	Need to record hours to have overview of associated cost.			On-going participation in C2 proposal evaluation and start up support	All projects now running now mainly support to communications and meetings	divided mainly on other departments
20	International 国际部	项目办相关管理工作 RED PMO management		PM: Gao Hu	Need to record hours to have overview of associated cost.			On -going daily work	Dialogue with embassy important part	Work on completion report and completion workshop
21	International	Ministerial visits Denmark China	Policy dialogue on RE	PM: Fan Lijuan All departments	RED	2012			Several visits conducted with great success - communication and meetings organised	May continue in new phase
22	International	Cooperation with IRENA on Chinas membership of IRENA	Greater role for China in RE policy and vice versa	PM: Fan Lijuan Han Yu	Government	2013			Membership of IRENA obtained - February 2014	One staff member seconded to IRENA, close cooperation on energy mapping research
23	International	Cooperation with GIZ on RE	Closer cooperation between China and Germany on RE	PM: Fan Lijuan Han Yu	Government & GIZ Euro 2,5 Mio.	2013			Agreement on international cooperation between Germany and GIZ	GIZ advisers in CNREC working on scenario study

2.5 Monitoring Framework Administration Department

Monitoring Framework CNREC & RED, Performance Indicators CNREC, Administration Department

Project no.	Department 所属部门	Title 课题 (项目) 名称	项目目标和产出 Objective and outcome	Team and consultants 团队和咨询专家	Financing 资金来源	Start time 拟开始时间	End time 拟结束时间	Status May 2013 项目状态	Status March 2013	Status October 2014
1	Administration 行政管理部	Branding of CNREC	Ensuring that China National Renewable Energy Centre from the start is well known in China and abroad and ensuring a high-level focus on the Centre's activities. The primary outcome in 2012 is the launch ceremony which were held in February 2012.	PM: Fan Lijuan CNREC: Tu Liang, Li Qin, Gao Lianna, Consultants: no	RED-programme: 600,000 DKK in 2012	2012.1.1	2012.3.30	This is a continuous activity for CNREC -limited capacity to do this work. There may be a need for more management focus on the "Branding of CNREC", which should be closely coordinated with REIAC	Planning for work to continue after RED completion	To be taken over by communications specialist in new phase
2	Administration 行政管理部	China Wind Power 2012 2012年世界风能大会	Promotion of CNREC, both design and production: ;Prepare the publicity materials used on the exhibition ;Relevant publicity activities in the website of CNREC	PM: Tu Liang CNREC:Li Qin, Gao Lianna, Consultants:Tian xuefeng	RED-programme: 200,000 DKK in 2012	2012.9.1	2012.11.30	One issue autumn 2013 - thereafter annual publication. It is important to pursue professional design for this publication to "brand" CNREC:	Regular annual task, sometimes external consultants assist	With international department – great success
3	Administration 行政管理部	CNREC Staff management manual 国家中心员工管理手册	Making the operation of Centre Normative.; preparing Final reports and manual	PM: Tu Liang CNREC:Tu liang,Li Qin, Gao Lianna, Consultants:no	none	2012,2	2012,87	Rules emphasize staff behaviour, rather than on professional performance. It is important to discuss whether the manual impels and supports professionals performance.	Completed – short version distributed to staff – combined with contract	Reporting improved, more facts, clearer structure – good presentations
4	Administration 行政管理部	Recruit new staff 新员工招聘	Recruit new staff ,to keep the CNREC enough researchers in Wind and solar	PM: Tu Liang CNREC:Tu liang,Li Qin, Gao Lianna, Consultants:no	none	2012,1	2012,12	Continuous activity 5 new staff recruited June 2012-June 2013. Recruitment should be evaluated – it may be important to consider possible recruitment of senior staff.		Five new staff budgeted for by CIFF important to recruit very qualified staff
5	Administration 行政管理部	Office automation system(OA) for Contract, financial, staff Information Management system 协同办公管理系统	Standardize management processes; Raise management efficiency	PM: Tu Liang CNREC:Tu liang,Li Qin, Gao Lianna, Consultants:Weaver Software (Shanghai)	Cost RMB 12.000	2012,8	2012,12	Introduced autumn 2012 and gradually being used for more office procedures. Effect on efficiency should be discussed. It should be discussed whether office automation is effective to	Installation completed July 2012, now used for registration of staff and office automation	Usefulness highly debated

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				CO.,LTD				support improved professional performance and knowledge sharing.		
6	Administration 行政管理部	CRESP Financial,contract and outputs for WB 规模化发展项目财务、合同产出整理	Contracts, Documents and financial reports Accounting for 2011 and 2012; Financial reports for WB and MOF ;Financial reports for Audit Department	PM: Tu Liang CNREC:Tu liang	Cost RMB 180.000	2012.1.1	2012.8.30	Phase 1 is completed and the work on phase 2 is starting. Relation between CRESP and CNREC – and how dynamism is possible should be clarified.	Completed February 2013	New contract managed by CRESP
7	Administration 行政管理部	CRESP phase-I Closed Audit for WB and China Audit Department 规模化发展项目一期项目结束审计	Annual audit	PM: Zhang Wanjun CNREC:Tu liang	Who financed this work?	2012,5	2012,7	Audit completed, should be discussed whether there are lessons learned from the audit, could CRESP ave contrinuted to the financial sustainability of CNREC?	Completed February 2013	Annual audit required at RED programme closure
8	Administration 行政管理部	Evaluation of Post World Bank REDP 世界银行中国可再生能源发展项目 (REDP) 项目后评估工作	To investigate the challenges that the REDP registered companies are facing in the user system area before and after the project executing process; review the REDP support towards the companies and the influences for the development of the industry, as well as the status quo of the PV corporations and PV industry. "The Evaluation Report of World Bank REDP towards PV Companies"; "The Report of World Bank REDP PV Off-grid System- profited villages"; "The Report of World Bank REDP PV Off-grid System-non-profited villages".	PM: Zhang Wanjun CNREC:Tu liang	European Commission	2012.9.1	2012.11.15	Completed autumn 2012,recommended to discuss lessons learned from the project and whether knowledge on PV has been shared effectively.	Completed February 2013	

Project no.	Department 所属部门	Title 课题 (项目) 名称	项目目标和产出 Objective and outcome	Team and consultants 团队和咨询专家	Financing 资金来源	Start time 拟开始时间	End time 拟结束时间	Status May 2013 项目状态	Status March 2013	Status October 2014
9	Administration 行政管理部	The Research of EC2's Legal Status and its Mid-Long Term Sustainable Development EC2 法律地位及中长期可持续发展研究	In order to make sure the financial self-sufficient target before 2015, and establish a Sino-Euro Clean Energy Centre with legal status in China, in the succeeded 2 years of the EC2 Project, with the financial support of The European Commission, there would be related researches launched with the key point of the Centre regulations and the financial sustainability. (1). The research of follow-up legal status of EC2, finished by Nov, 2012, and draft out several feasibility schemes of setting up similar centre in China, and each scheme's pros and cons. And the scheme would be discussed by EU Management Committee on Dec. 7th, 2012. (2). The feasibility research of EC2 setting up Clean Energy Centre and its business model research. This approach will be launched after EU confirming the legal status and organizational structure, with REC and ERI providing experience supports.	PM: Tu Liang CNREC: Tu liang, Li Qin, Gao Lianna,	EC2-programme: €3,000 in 2012. The budget seems very low.	1012.10.25	2012.11.30	Completed Autumn 2012;. Recommended that lessons learned from the study may feed into the further work to secure the financial and professional sustainability of CNREC.	Closed this year cooperation with European Commission – discussion is taking place on further cooperation.	Discussion with EC2 on new project phase – with Industry Department
10	Administration 行政管理部	Annual Finance Report for Y1-Y2 Y1-Y2年度财务工作	Finished the financial budgets of EC2 Project (fiscal year Y1-Y2), including accounting and balance of payments as well as cost control. Current progress: 1 ERI & EU has already finished the project account checking, finding out that there are totally about 8-10 research projects left, without	PM: Tu Liang CNREC: Tu liang, Li Qin, Gao Lianna,	How much funding is allocated and by which organization.	2012.10.15	2012.12.30	This activity will be conducted annually during the duration of the project. It is not clear how this project is coordinated with other CNREC activities and how the 8-10 research projects left are managed within CNREC.	Completed again in March 2014 – following standardised financial management and auditing procedures	New annual report prepared March 2014 – clear and well presented

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			declaring to EU, but has already financed by ERI. 1 Finished Cost Control Table. 1 According to EC2 Project Category, classified each financial data, formulated statement and submitted to ERI finance section. Follow-up Process: 1 Continue finished all projects accounting. 1 Settle EC2 Project accounting for Y1-Y2, and build up new research projects listing and management.							
11	Administration 行政管理部	Sino-EU Energy Transformation and Security Upper-Level Forum 中欧能源转型与安全高层论坛	Forum would be hold on Dec. 13rd, 2012. The Administration Department would take charge of division of tasks, hotel, payment, contracts and the funds. Current: the preparation work has already been done.	PM: Tu Liang CNREC: Tu liang, Li Qin, Gao Lianna,	This project included RMB 15.000 for staff remuneration, what was the total funding and who paid for that?	2012.9.1	2012.12.30	Completed. Not clear whether results have been used and communicated more broadly inside and outside CNREC:	Feeding into general international cooperation and publications.	Cooperation continues
12	Administration 行政管理部	CNREC Staff Capacity Building Plan 国家可再生能源中心员工能力建设计划方案	Formulate the Staff Capacity Building and Training Plan, collecting the basic information of staff, analysing the training needs, together with the routine work of CNREC, finalizing the formal training plan.	PM: Tu Liang CNREC: Gao Lianna, Consultants: Mette		2012.9.20	2012.12.30	Ongoing work to be supported by the M&E Team. M&E Team needs to discuss whether an overall human resource plan is being developed for CNREC. Generally important to assess whether recruitment, training and capacity development has been planned to strengthen the staff and organisation of CNREC in a sustainability perspective.	Methods being discussed but Administration Department and M&E Team have had limited resources for this	More elaborate job descriptions related to CNREC objectives developed to form basis for active capacity development under CIFF
13	Administration 行政管理部	Great wall seminar 长城论坛	Great Wall Renewable Energy Forum 2012 Sino-German International symposium on renewable energy and distributed generation	PM: Wang Zhongying CNREC: Zhao yongqiang, Fan lijuan, Tu		2012, 1	2012, 12	Completed and to be repeated. Has there been discussions on how this may feed into development of the financial and professional sustainability	Discussion on whether this activity will be continued – participation of wide audience many	

Project no.	Department 所属部门	Title 课题 (项目) 名称	项目目标和产出 Objective and outcome	Team and consultants 团队和咨询专家	Financing 资金来源	Start time 拟开始时间	End time 拟结束时间	Status May 2013 项目状态	Status March 2013	Status October 2014
				liang,Han yu,,Gao lianna,Liuqin				of CNREC?	contacts are made	
14	Administration 行政管理部	Finance and accounting system for CNREC	A finance and accounting system needs to be established to manage the finances of CNREC	PM: Ren Dongming Tu Liang		2013 May	May 2014	The Administration Department needs to work with the finance and accounting system feeding into the overall organisational structure and sustainability of CNREC	Finance management to date mainly focusses on RED and other specific projects	Not clear where finance management will be handled in future – maybe by ERI administration (?)
15	Administration	New employment contract	New employment contracts are being developed to take into account completion of RED	PM: Ren Dongming Tu Liang	RED	2014			Draft contracts have been made with JIKE and CITCD but meetings need to be held with staff	NEW contract for post CIFF and reemployment developed
16	Administration	Performance management system for RED staff being developed	Performance system seeks to include monitoring and learning and also to provide incentives to improve performance – will include regular meetings management and staff	PM: Ren Dongming Tu Liang	RED	2014			System has been developed – this needs to be endorsed by the director and meetings need to be held with individual staff.	Performance and career system developed for new phase
17	Administration	New Job descriptions	More in depth job descriptions to secure that performance and technical contents of jobs are clearer	PM: Ren Dongming Tu Liang	RED	2014				Forming basis for reemployment of staff
	Administration	Capacity development and travel plan	To form part of new CIFF plan to upgrade capacity and competences	PM: Ren Dongming Tu Liang		2014				To include training, coaching and travel internationally for training

