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SEA Capacity Building -- Case Study of the Development of Core Training Materials & Training of Local Trainers **Yunnan Environmentally Sustainable Development Capacity Building Project** Luo Shanghua¹, Yang Yonghong¹, Li liuqiong¹, Zhang Haiping² (1 Appraisal Center of Environmental Engineering of Yunnan Provincial Environmental Protection

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9 Abstract: Swedish International Development Agency (SIDA) funded, Yunnan Environmentally Sustainable Development Capacity Building Project (hereafter as the Project) is implemented 10 11 jointly by Yunnan Provincial Environmental Protection Bureau(YEPB), Appraisal Centre for 12 Environmental Engineering of MOEP(ACEE), Appraisal Centre of Environmental Engineering of 13 YEPB(YEAC), and Ramboll Natura AB, with the aim to "improve the capacity of Yunnan 14 provincial and local Environmental Protection Bureaus (EPBs) to fulfill their roles in conducting SEA and EIA in good collaboration with other stakeholders". This Paper introduces the 15 background and outputs of the Project, especially the development of SEA core training materials 16 (CTM) and the Training of Local Trainers (LTs). Since the beginning of project implementation 17 phase in Feb. 2007, an excellent LTs team consisted of 30 people was formed to draft the CTM 18 19 through five training workshops under the technical assistance from international consultants (ICs). 20 Three pilot test trainings have been delivered to different target groups by LTs in the first half of 21 2008, in order to gain practical training experience based on and further improve the CTM, and to 22 test LTs' training skills. Besides, pilot SEA case study of Dali urban development master Plan and development of a NGOs-Government communication platform are also the highlighted outputs by 23 24 the project.

- 25 Keywords: capacity building, strategic environmental assessment
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27 **1. Introduction**

SEA is an iterative decision-support tool that helps planners and decision-makers to 28 assess the environmental, social and economic effects of proposed Policy, Plan or 29 Programme (PPP or 3P's) initiatives and its alternatives as early as possible in the 30 31 planning process (Therivel et al. 1992). Since the middle of 1990s, there has been a rapid progress of SEA in both developing and developed countries (Dalal-Clayton B 32 and Salder2005). 30 years ago China established the EIA system and now it is one of 33 the countries in the world where SEA research and practice are active performed. 34 35 Particularly, SEA has become an official administrative practice after the EIA law went into effect from Sep. 1st, 2003 in China (CHE et al, 2002; BAO et al, 2004; ZHU 36 et al, 2007). 37

38 Yunnan province is located at the southwest of China bordering to Laos, Myanmar 39 and Vietnam. It is one of the places in the world owning abundant natural resources 40 and biodiversity. Since 2002, SEA has been implemented and practiced on various 41 plans in Yunnan, such as river basin hydropower development plans, industrial park development plans and urban development plans. In order to strengthen the capacity
of the Yunnan EPB system and government line agencies to implement SEA
requirement and promote sustainable development, the Project (2007-2009) is
successfully implemented by joint efforts under the support from SIDA.

- This paper summaries the experiences and outputs of the Project during the first year of implementation from the perspective of LTs, which mainly includes CTM development, training to LTs, research on pilot SEA case and buildup communication platform between local environmental NGOs and YEPB.
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51 2. Background of Yunnan Environmentally Sustainable Development Capacity 52 Building Project

Yunnan Environmentally Sustainable Development Capacity Building Project is 53 54 funded by Sida, and implemented by a Project team that consists of the Yunnan 55 Provincial Environmental Protection Bureau (YEPB), Appraisal Centre for Environmental Engineering of MOEP(ACEE), and Ramboll Natura AB, an 56 international consulting firm. Further authorized by YEPB, Appraisal Centre of 57 Environmental Engineering of YEPB(YEAC) takes the responsibility of organizing 58 59 LTs to participate in the Project workshops and to accomplish draft of CTM, to develop the training capacity of LTs and to implement SEA pilot; Yunnan Society for 60 Environmental Science (YSES) is responsible to carry out SEA capacity building for 61 62 local Environmental NGOs and colleges, and to establish the platform for communication on environmental issues between NGOs and YEPB. 63

64 There are four key Project objectives proposed at very beginning as following: (1) To

65 strengthen the capacity of the Yunnan EPB system and government line agencies to

66 implement the SEA and EIA requirements to promote sustainable development; (2)

67 To strengthen the capacity of selected NGOs and other Yunnan stakeholders to be

meaningfully involved in SEA and EIA; (3) To strengthen the professional capacity of

69 SEA and EIA practitioners; (4) To strengthen dialogue and collaboration between

70 environmental authorities and NGOs in regard to environmental issues.

After the Project implementation in 2007 and based on the existing conditions in

Yunnan, the objectives core has been adjusted to focus only on SEA capacitybuilding.

74 Three main components have been designed for the Project: (1)Development of SEA

75 Core Training Materials and Training of Local Trainers who will be able to provide

76 SEA trainings to EPBs, government line agencies, NGOs and SEA practitioners in

77 Yunnan in near future; (2) Development of a NGOs-Government platform and

- 78 professional network for dialogue and communication on environmental issues, in
- 79 order to identify and improve NGOs' role and contributions to SEA and EIA
- 80 processes; (3) Planning and carrying out a Pilot Case SEA in Yunnan, in order to gain

81 practical SEA experience in the province and to use the practical experience for

82 capacity building and learning.

The Project lasts for three years during 2007–2009. After the first year implementation in 2007, the Project has achieved the following targets defined in the Project Logic Framework: (1) A relative stable team of LTs have been established; (2) The first draft of CTM have been finished; and (3) Three small-scale SEA pilot test trainings have been delivered to EPB system at Yunnan provincial and Kunming

88 Municipal level; SEA technical practitioners and environmental NGOs in Yunnan.

Meanwhile, the pilot SEA case study and the NGOs-Government platform fordialogue and communication are still carrying on according to Project Plans.

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92 **3. Training of Local Trainers**

After a year's effort and five SEA capacity building training workshops, a relatively 93 stable LTs team including 30 members has been set up. The LTs mainly come from 94 95 EPB system, the professional environmental assessment consulting firms and research 96 institutions, such as YEPB, YEAC, YSES, Yunnan Institute of Environmental 97 Science, Yunnan University, Kunming University of Science and Technology and so on. The LTs team is made up by environmental management professionals, planners, 98 99 EIA/SEA practitioners, teachers and NGO representatives, who participate in the Project activities voluntarily and bears good professional background and practical 100 101 experience in EIA/SEA. LTs are not only the training targets for SEA capacity 102 building in the Project but more importantly, will become the main force to deliver the follow-up training for SEA capacity building in Yunnan after the completion of the 103 104 Project.

105 A series of SEA topic workshops have been delivered by international consultants 106 from Ramboll Natura and Chinese national SEA experts to improve the LTs' knowledge and capacity in SEA. E.g. Mr. Jiri Dusik introduced the international 107 development trend and cases and technologies of SEA practices; Mrs. Peggy Lerman 108 109 presented a thematic workshop on SEA Review; Mrs. Carolyn Knight presented the information about public participation in SEA in foreign countries and Dr. Bao 110 111 Cunkuan and Dr. Liu Yi introduced domestic SEA analysis cases. In this way LTs 112 could touch to SEA development trend, existing situation and challenges, analytical approach and the review criteria systematically. 113

In order to enhance LTs training skills to be prepared for future training tasks, diversified training techniques such as panel discussion, corner game, polar debate, life boat, case work and so on have been introduced by ICs, esp. Mrs. Anna Olson through SEA workshops. The interactive training method is obviously different from the traditional unilateral teaching method in China, which stimulates LTs' interests and initiatives to participate in the training sessions deeply, and let LTs feel and experience the training effect in such a different way. ICs have also summarized how to use these training techniques in details for LTs. Up to now LTs have made a big progress in application of various training skills and techniques, which have been tested by the three pilot SEA training workshops delivered by LTs themselves in the beginning of 2008, and shows that LTs are able to design and deliver primary SEA trainings skillfully and independently.

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127 **4. Development of Core Training Materials**

An important output of the Project is to develop a set of SEA Core Training Materials reflecting the practical conditions and tailored to the pragmatic needs of SEA training in Yunnan province. Thus, from the very beginning of the Project, CTM has been defined as a dynamic, open and continuously updated SEA resource package.

From the first SEA capacity building workshop, LTs began to work on the first draft 132 of CTM under the technical guidance from ICs. Four topics have been agreed on 133 building up CTM: (1) Introduction to SEA; (2) Linking SEA to the process of Plans 134 and Programmes; (3) Analytical approaches to SEA; and (4) Public participation in 135 136 SEA. LTs select the topics and form into four CTM working groups voluntarily, and communicate with their target groups, collect data, analyze and compile information 137 for CTM by themselves. A senior local expert has been designated to coach each of 138 the working groups. And since the third workshop the LTs working groups are 139 required to present their progress in draft the contents under the topics. After the 140 141 workshops, ICs will meet with each group specifically to provide further technical 142 guidance and relevant information.

With the great efforts from LTs, local experts and ICs in nearly one year, the first
CTM draft has been compiled by the end of 2007, which includes the SEA concepts,
SEA theory and development trend, recommendations of general SEA analysis tools,
and the brief introduction of Chinese national Planning EIAs cases, especially those in

- 147 Yunnan Province.
- In Jan. and Mar. 2008, three pilot test trainings targeting on EPB systems, NGOs and EIA/SEA practitioners have been delivered by LTs, with a purpose to test the effect of CTM and LTs training skills. In 2008 CTM will be further revised and improved according to the lessons and experiences learned from the test trainings. A new topic of SEA Review will be added to CTM to satisfy the EIA/SEA administration needs
- 153 from EPB systems reflected from the test trainings.
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155 5. Pilot SEA Case Study—SEA of Dali Urban Development Master Planning

156 Dali urban development master planning has been chosen as the pilot SEA case by the

- 157 Project to help the LTs understand SEA process and provide the practical experiences
- and guidance for similar SEA in Yunnan province in the future. The pilot SEA work is
- 159 organized and implemented by YEAC, and a pilot SEA working team has been set up
- 160 by mostly LTs. ICs and National Consultants from ACEE will provide technical

support. Since Nov., 2007, the pilot SEA working team has been engaged in field 161 investigation and scoping of the SEA. 162

The outstanding characteristic of the Dali pilot SEA case study is that LTs will try to 163

explore how to integrate SEA with the Dali urban master planning elaboration process, 164 and how to secure public participation in SEA. 165

Different to the many other plan EIAs in China, the Dali pilot SEA case study will 166 follow the principle of early intervention of SEA into planning, which means that 167 168 SEA and the planning process will be carried out in parallel as much as possible. With strong support from the Dali Municipality government, YEAC has set up the 169 170 communication and coordination mechanism with the planning institute, and made a 171 substantial progress on information sharing, coordination and discussion by certain 172 phases.

173 In order to fully play the role of public participation in Dali pilot SEA, a consultation 174 committee has been established by delegates from government line agencies, NGOs, 175 experts in fields of urban planning, EIA, and biodiversity conservation. Four special 176 consultation workshops have been held to identify the key environmental issues and 177 scoping for Dali pilot SEA. Public participation at various levels will also be taken at 178 the key stage of this pilot SEA case.

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6. Development of a NGOs-Government Communication Platform

181 In order to improve the NGOs' participation in SEA in Yunnan, the Project has 182 contacted with many local environmental NGOs who are interested in SEA through YSES, by holding the SEA capacity building workshops with NGOs delegates, 183 particularly focus on public participation approach. According to the Project work 184 185 plan, the NGO component is working on drafting a Public Participation Technical Guidance for NGOs to meaningfully involve in SEA/EIA; and a special website will 186 187 be built as a platform for dialogue and communication on environmental issues between NGOs and YEPB. 188

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190 7. Final remarks

The above mentioned is the main achievements made by the Project in Yunnan, China. 191 192 This case shows us that SEA capacity building project should attach high importance 193 to and play a key role of the local professionals to produce the great impact and 194 ownership.

195 In this Project, LTs team is made of by SEA/EIA professionals from EIA consulting firms, institutes and universities who are interested in becoming a SEA trainer for 196 197 Yunnan. They were trained through participating in a series of SEA topic workshops and the case study of Dali pilot SEA case to improve their theory and practical 198 199 experiences of SEA. Training techniques and skills have also been provided to LTs to 200 ensure the effectiveness and efficiency of future SEA training program delivered by 201 themselves in Yunnan.

Additionally, although there were successful cases about the SEA training material in China, such as the long-distance SEA training courses by World Bank (World Bank website), CTM development in the Project is still a beneficial try for LTs to group work with ICs and local experts, and compile a set of CTM that reflect the real local situation and meet with the real SEA training demands.

The Project has been implemented for only one year with a good beginning. Our LTs are eager to obtain further support and guidance from ICs on SEA case analysis and practice, and improve our understandings on the analysis tools of SEA. We hope that the Project outcome will provide a good example for developing countries to improve their SEA capacity buildings.

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