

## 摘要

- 一、計畫名稱：113 年度宜蘭縣環境教育委託執行計畫
- 二、主辦機關：宜蘭縣政府環境保護局
- 三、執行單位：亞太環境科技股份有限公司
- 四、計畫主持人：鍾昭儀
- 五、計畫執行期程：民國 113 年 1 月 1 日起至 113 年 12 月 31 日止
- 六、計畫經費：新臺幣 1,012 萬 2,690 元
- 七、中文摘要：

為持續透過環境教育的推廣，保留宜蘭獨特的自然與人文特色，並深入民眾與社區，讓更多人認識環保理念並付諸實踐，宜蘭縣政府環境保護局自 2010 年 6 月 5 日起，積極進行《環境教育法》頒布後，積極進行宣傳活動和政令宣傳，鼓勵學校和社區參與環境保護行動。環境教育委託實施方案》(以下簡稱方案)，今年的工作內容執行成果摘要：

### (一)管理網站及環保局 FB 粉絲專頁

1. 宜蘭縣環境教育資訊平台網站上傳環境教育更新資訊共 67 則。
2. 環保局 FB 粉絲專頁追蹤人數達 8,277 人，年增 632 人(相較 112 年新增的追蹤人數成長 7.6%)。
3. 建議：臉書粉絲頁依計畫工作執行持續發布活動訊息與成果規劃心得分享、留言、抽獎等活動，以持續增加民眾追蹤及忠誠度追隨粉絲群。

### (二)環境教育設施場所認證輔導、環境教育人員增能計畫相關作業

1. 113 年專案計畫輔導縣內 15 處單位進行認證作業 7 處單位進行認證作業，安永心食館於 9 月 25 取得認證。宜蘭縣蘇澳鎮朝陽社區發展協會於 12 月 13 日送件申請。
2. 113 年環境教育人才庫徵選推 4 位參加徵選，最終有 3 位入選。境教育人才庫運用推展紀錄截至 11 月 18 日共計 58 場。
3. 113 年本縣環教場域內之人員參加環境教育認證訓練並通過認證成為

環境教育人員，補助每人受訓學費 2,000 元，共計 11 人申請。

4. 機關學校至環境教育設施場所戶外學習今年度共計有 80 場次。
5. 辦理第 9 屆國家環境教育獎輔導作業，學校組和機關(構)組榮獲特優，團體組榮獲優等。

6. 建議：

- (1) 可保留安永心食館輔導過程作為範例，並將申請書作為宜蘭縣設施場所申請範本之一。
- (2) 未來輔導社區單位申請設施場所時，可先協助潤飾申請書文字與內容，讓日後設施場所申請有標準作業程序可以參考更加順利。
- (3) 日後「102 小時環教人員認證課程」補助經費，可在開班第一堂課時，前往宜蘭大學環教中心進行宣傳，提供申請人數及申請辦法等資訊以利提升民眾參加環境教育人員認證之意願。
- (4) 邀請各單位參加第 10 屆國教獎單位時，可以承諾全程陪伴與協助該單位完成第 10 屆國教獎評選，提升單位參賽意願。

### (三) 輔導轄內優良社區推動環境教育工作

1. 113 年度共辦理社區現地訪視輔導 3 場次，並邀請專家學者前往現場給予社區環境改造的具體建議，另以社群軟體聯繫即時提供改善意見且隨時提供社區必要之協助。
2. 11 月 6 日辦理 114 年度社區環境教育培力計畫評選宜蘭市七張社區發展協會及羅東鎮北成社區發展協會 2 處社區執行 114 年度社區環境教育培力計畫。
3. 建議：辦理執行工作坊，輔導社區可於執行前請社區以影像紀錄社區現況，執行後再以影像紀錄成果；另輔導社區成果報告提報及經費核銷作業應提前至 10 月底完成初稿。

### (四) 綠色消費及綠生活推廣(含綠色辦公)

1. 今年度辦理 3 場次環保標章旅館及綠色採購申報說明會，共有 15 家業者加入環保餐廳，3 家業者取得環保標章旅館。
2. 配合綠色博覽會辦理 15 場綠色生活與消費推廣、宣傳活動，並邀請 747

人加入響應環保集點會員。

3. 製作「宜蘭綠生活電子地圖」，宣傳本縣環保餐廳、環保標章旅館及環教設施場所。
4. 打造「1 縣市 2 村里(羅東北成社區、冬山柯林社區)-打造綠生活前哨站示範村里」，從在地出發，共同推動淨零綠生活。
5. 輔導 3 家企業申請國家企業環保獎甄選(3 家參與 113 年甄選其中達和環保服務股份有限公司宜蘭營業所與台灣水泥股份有限公司蘇澳廠，分別獲得第 6 屆國家企業環保獎銀級獎及銅級獎)；響應綠色辦公機關、學校及企業團體共 40 家。
6. 建議：日後辦理活動規劃，如創新活動可規劃綠色旅遊行程，帶領民眾體驗選擇環保餐廳、環境教育設施場所等，同時加入環保集點會員，讓民眾養成參與環保局規劃各場次活動，透過贈送綠點，吸引民眾積極參與響應並環保集點。

#### **(五)辦理環境教育基金管理會、審議會及宜蘭縣環境教育基金環境教育專案計畫補(捐)助審查會及說明會**

1. 完成彙整 110-113 年度宜蘭縣環境教育行動方案成果報告書，並上傳資訊平台供大眾閱覽。
2. 協助辦理 113 年環教基金申請案的內容檢視、審查會議及執行訪視。
3. 建議：補助案件除訪視民間團體外亦可訪視機關、學校以落實計畫執行。

#### **(六)辦理創新及特色環境教育推廣活動**

1. 今年度共辦理 7 場的創新及特色環境教育相關系列推廣活動，包括【水水宜蘭 水資源永續行動】、【地球日看戲去 環境永續逗陣來】、【地熱 能不能】、【世界環境日 山中傳奇】、【崙埤一日「部落」客！】、【淨零綠生活社區小旅行】2 場次。
2. 臺美生態認證之學校進行認證作業，輔導冬山國中、三民國小及蓬萊國小等 3 處學校通過銀牌認證。
3. 建議：

(1) 建議在辦理戶外活動前場勘要實地走過步道，並與講師確認活動流程時間，同時活動前與講師確認出席狀況。

(2) 臺美生態學校認證需長時間追蹤成果，應定期追蹤學校執行進度，且須注意申請期限以免逾期申請。

### (七)環境講習計畫

1. 截至 12 月 20 日共計辦理 7 場次計 40 小時講習課程，新案完成率為 72.5%，異地完成率 100%，舊案清理率為 63.32%。

2. 建議：明年除了定期辦理場次外，可依據案件數，於結算日前增加講習辦理場次，以提高考核案件完成率。

### (八)環境教育終身學習

1. 依環境教育法第 19 條執行成效輔導查核作業完成查核 15 個單位，並將結果登錄於環境教育終身學習網站。

2. 113 年共辦理 3 場次環境教育系統操作說明會，總計 121 位承辦人員報名參訓。

3. 建議：環境教育終身學習網系統操作，可提醒機關及學校承辦人於時數報送前應檢視各同仁時數在進行報送。

### (九)環境教育志工培訓與運用

1. 運用志工於宜蘭縣綠色博覽會駐館解說服務、全民綠生活推廣及宜蘭國際綠色影展等活動共計 113 場次 1,372 小時。

2. 辦理縣內環教志工增能訓練 2 梯次(環教教案-淨零綠生活教學訓練)、縣外移地訓練活動 1 場次(八德埤塘生態公園、好時節休閒農場、觀新藻礁環教課程、郭元益糕餅博物館)，提升其環境教育專業知識及技能。

3. 建議：

(1) 環境教育志工移地訓練活動可以新增如蘇澳、五結及壯圍共乘點集合，減少志工通勤時數及行車安全。

(2) 避免參加移地訓練環保志工自行駕車、跟車，若無法全程共乘，應取消該員培訓資格以免發生意外。

(3) 志工增能培訓中，可從中選擇教學能力較佳志工擔任小組長與 1 至 2

名組成小團隊相互學習，做為未來到社區推廣小隊。

#### (十)113 年宜蘭縣環境知識競賽

1. 宜蘭縣初賽於 9 月 14 辦理完成，共計 375 位參賽者報名，11 月 16 日將帶領各組前五名代表選手，參與全國總決賽。
2. 建議：
  - (1)環境知識競賽的初賽命題時間應再往前推，提供機關多檢查和修正時間，同時跟出題老師先行告知會依實際情況對題目進行調整。
  - (2)若該組報名人數前 30%不滿 10 人時，將取 10 人進入驟死賽的但書，如今年高中組。在全國賽學生身份辨別可先向主辦單位確認所需資料為何。

#### (十一)環保志(義)工群英會

1. 縣內初賽共有 9 個單位組成 20 個競賽小組參與 4 類組競賽，由深溝水源生態園區(2 隊)、壯圍鄉公所環保志工、羅東鎮公所環保志工等隊伍代表參加全國賽。
2. 環保金頭腦、資源分類王、資源灌籃高手、清掃接力賽等 4 項目榮獲全國賽特優，榮獲大滿貫。
3. 建議：
  - (1)縣內賽工作人員應於活動前觀看競賽影片並清楚活動流程，對活動有初步了解。
  - (2)另外清掃接力賽的比賽物品尺寸樣式應全數統一，於活動前提供承辦人員檢視，同時活動現場事前要測試現場回放影片及投影設備，減少競賽產生爭議。
  - (3)全國賽環保金頭腦賽制可以改為不要答錯一題就淘汰，而是讓全部答完四題在離場，另外裁判標準必須統一。

#### (十二)辦理環境教育繪本徵選及推廣活動

1. 透過閱讀環境教育繪本過程中學習如何愛護環境與資源，民眾增進環境教育觀念，提高民眾對環境保護認知及意識。
2. 今年度辦理繪本徵件設定閱讀者為 2-7 歲學童，但於徵件文宣中未註





記，以致於今年度作品僅少數作者提供注音版本。

### 3. 建議

- (1) 本縣 112 年繪本徵件共收件 29 件，113 年共收件 45 件，有明顯增加，為鼓勵民眾可以持續投件，建議可每年辦理環計教育繪本徵件。
- (2) 經統計 113 年度繪本徵件作品中有超過 15 件為大專院校學生作品，辦理相關活動時可電話邀約學校參與。
- (3) 為鼓勵在地民眾關注環保議題可規劃保留名次比例提供宜蘭縣民眾，如前 3 名至少 1 名為在地民眾。

### (十三)辦理環保志工考核及訓練業務

1. 為提升各環保志工隊義工轉換成志工，本計畫持續協助辦理環保志義工培訓課程。
2. 為確保志義工運用單位承辦人員異動，每年辦理 1 至 2 場志願服務系統操作課程，以利承辦人員熟悉操作並加深印象。
3. 建議：為提升本縣環保義工轉志工之培訓課程辦理之便利性，建議日後可朝線上觀課觀課方式辦理。

### (十四)協助環保及環教志工相關業務

1. 辦理衛福部志願服務系統操作訓練說明會 1 場次。
2. 辦理 113 年度 12 鄉鎮市環保志工運用成果考評與實地考評 3 場次，並且協助主辦單位彙整更新志工資料庫及相關業務推動。
3. 建議：環保志工考核方面，可擬定系統登錄的方式提供各公所參考(如：每 3 個月登入系統 1 次、登錄資料為每個月加總時數或單次服務時數等)，讓公所可以依循。

## 八、英文摘要：

In order to continue promoting environmental education, preserve Yilan's unique natural and cultural characteristics, and engage communities and the public in understanding and practicing environmental protection principles, the Yilan County Environmental Protection Bureau has actively promoted environmental initiatives and policies since June 5, 2010, following the promulgation of the *Environmental Education Act*. This includes encouraging schools and communities to participate in environmental protection actions through the *Environmental Education Implementation Plan* (referred to as "the Plan"). The followings are summaries of this year's work and achievements.

### **(一) Management website and EPA Facebook fan page**

1. A total of 67 environmental education updates were uploaded to the Yilan County Environmental Education Information Platform website.
2. The number of followers of the Environmental Protection Agency's Facebook fan page reached 8,277, an increase of 632 people year-on-year (a 7.6% increase compared to the number of new followers in 2013).
3. Suggestion: Facebook fan page should continue to release event information and plan experience sharing, commenting, lucky draw and other activities according to the planned work, so as to continuously increase the number of people following and the loyalty of the fan base.

### **(二) Certification guidance for environmental education facilities and related tasks for environmental education staff capacity building program**

1. The 113-year project planned to guide 15 units in the county to carry out certification work. 7 units carried out certification work, and An Yong Xin Shi Restaurant obtained the certification on September 25. The Chaoyang Community Development Association of Su'ao Township, Yilan County submitted its application on December 13.
2. In 2014, the Environmental Education Talent Pool nominated 4

candidates to participate in the selection, and finally 3 of them were selected. As of November 18, the record of promoting the use of the environmental education talent pool has reached 58 events.

3. In 2014, personnel in the county's environmental education field who participated in environmental education certification training and passed the certification to become environmental education personnel will be subsidized NT\$2,000 per person for training. A total of 11 people applied.
4. There are a total of 80 outdoor learning sessions from government agencies and schools to environmental education facilities this year.
5. Conducted the guidance work for the 9th National Environmental Education Award. The school group and the government (institution) group won the special award, and the group group won the excellent award.
6. Recommendations:
  - (1) The counseling process of the An-Yong Restaurant can be retained as an example, and the application form can be used as one of the application templates for facilities in Yilan County.
  - (2) In the future, when assisting community units in applying for facilities and venues, they can first help polish the wording and content of the application so that future facility and venue applications will have a standard operating procedure to refer to and go more smoothly.
  - (3) In the future, the subsidy for the "102-hour Environmental Education Personnel Certification Course" can be used to promote the first class at the National I-Lan University Environmental Education Center, provide information such as the number of applicants and application methods, so as to increase the public's participation in environmental education personnel certification. Willingness to certify.
  - (4) When inviting units to participate in the 10th National Education Award, we can promise to accompany and assist the unit throughout



the 10th National Education Award selection process to enhance the unit's willingness to participate.

### **(三) Assist excellent communities within the jurisdiction to promote environmental education**

1. In 2014, we conducted three on-site community visits and counseling sessions, and invited experts and scholars to provide specific suggestions on how to improve the community environment. We also used social media software to provide real-time improvement suggestions and provide the community with necessary assistance at any time.
2. On November 6, the 115th Annual Community Environmental Education Empowerment Plan was held. The Qizhang Community Development Association in Yilan City and the Beicheng Community Development Association in Luodong Town were selected to implement the 115th Annual Community Environmental Education Empowerment Plan.
3. Suggestion: When conducting implementation workshops, the counseling community can ask the community to record the community status with video before implementation, and then record the results with video after implementation; in addition, the submission of the counseling community results report and the reimbursement of funds should be completed in advance by the end of October First draft.

### **(四) Promotion of green consumption and green living (including green office)**

1. This year, we held three briefing sessions on eco-friendly hotels and green procurement applications, with a total of 15 operators joining the green restaurant category and 3 operators obtaining eco-friendly hotels.
2. Cooperated with the Green Expo to organize 15 green living and consumption promotion and publicity activities, and invited 747 people to join the environmental protection point collection membership.

3. Create an “Electronic Map of Yilan Green Life” to promote the county’s eco-friendly restaurants, eco-labeled hotels, and environmental education facilities.
4. Create "1 county and 2 villages (Luodong Beicheng Community and Dongshan Kelin Community) - Create a green living outpost demonstration village", starting from the local area, and jointly promote net-zero green living.
5. Assisted 3 companies in applying for the National Corporate Environmental Protection Award (3 companies participated in the 113th selection, of which the Yilan Sales Office of Dahe Environmental Protection Services Co., Ltd. and the Suao Plant of Taiwan Cement Co., Ltd. won the Silver Award of the 6th National Corporate Environmental Protection Award A total of 40 green office agencies, schools and corporate groups responded.
6. Suggestions: In the future, when planning activities, for example, innovative activities can be planned to plan green tourism itineraries, leading the public to experience the selection of environmentally friendly restaurants, environmental education facilities, etc. At the same time, join the environmental protection point collection members, so that the public can develop the habit of participating in the various activities planned by the Environmental Protection Bureau. By giving away green dots, we encourage the public to actively participate and collect dots for environmental protection.

**(五) Organize the Environmental Education Fund Management Committee, Review Committee, and Yilan County Environmental Education Fund Environmental Education Project Subsidy (Donation) Review Committee and Briefing Meeting**

1. Complete the compilation of the 2011-2013 Yilan County Environmental Education Action Plan Results Report and upload it to the information platform for public viewing.

2. Assist in the content review, examination meeting and implementation visit of the 114th Environmental Education Fund application.
3. Suggestion: In addition to visiting private groups, subsidy cases can also visit government agencies and schools to implement the plan.

#### **(六) Organize innovative and distinctive environmental education promotion activities**

1. This year, a total of 7 innovative and special environmental education related promotion activities were held, including [Water Yilan Water Resources Sustainability Action], [Earth Day Watching Theater Environmental Sustainability Douzhen], [Can Geothermal Heat World Environment Day Mountain Legend] 【One-day "blogging" guest in Lunpi! 】 【Net Zero Green Life Community Tour】 2 sessions.
2. Conducted certification work for schools that have received Taiwan-US Eco-Certification, and assisted Dongshan Junior High School, Sanmin Elementary School, and Penglai Elementary School to pass the silver certification.
3. Recommendations:
  - (1) It is recommended that you walk the trail in person before organizing an outdoor activity and confirm the activity schedule and time with the instructor. Also, confirm attendance with the instructor before the activity.
  - (2) The Taiwan-US Eco-School Certification requires long-term tracking of results. The school's implementation progress should be tracked regularly, and attention should be paid to the application deadline to avoid overdue applications.

#### **(七) Environmental Training Plan**

1. As of December 20, a total of 7 training courses totaling 40 hours were conducted, with a new case completion rate of 72.5%, a remote completion rate of 100%, and an old case clearance rate of 63.32%.

2. Suggestion: In addition to the regular handling sessions next year, additional training sessions can be held before the settlement date based on the number of cases to increase the completion rate of assessment cases.

#### **(八) Environmental Education and Lifelong Learning**

1. Carry out the effectiveness assessment work according to Article 19 of the Environmental Education Act and complete the assessment of 15 units, and log the results on the Environmental Education Lifelong Learning Website.
2. In 2014, a total of 3 environmental education system operation briefing sessions were held, with a total of 121 organizers signing up for the training.
3. Suggestion: The operation of the Environmental Education Lifelong Learning Network system can remind the organizers of agencies and schools to review the hours of each colleague before submitting the hours.

#### **(九) Training and Utilization of Environmental Education Volunteers**

1. Volunteers were used for 113 events and 1,372 hours at Yilan County Green Expo, National Green Lifestyle Promotion, and Yilan International Green Film Festival.
2. Organize 2 training sessions for environmental education volunteers in the county (environmental education lesson plan - net zero green living teaching training), and 1 training session outside the county (Bade Pitang Ecological Park, Good Season Leisure Farm, Guanxin Algae Reef Environmental Education Course, Kuo Yuan Ye Cake Museum) to enhance their professional knowledge and skills in environmental education.
3. Recommendations:
  - (1) Environmental education volunteer off-site training activities can be

expanded to include new carpooling points such as Su'ao, Wujie and Zhuangwei, thereby reducing volunteers' commuting time and improving driving safety.

- (2) Avoid environmental volunteers participating in off-site training driving themselves or following other vehicles. If they are unable to share the ride throughout the entire trip, their training qualification should be cancelled to avoid accidents.
- (3) During the volunteer empowerment training, volunteers with better teaching abilities can be selected to serve as group leaders and form small teams with 1 to 2 others to learn from each other and form future community promotion teams.

#### **(十) 113th Yilan County Environmental Knowledge Contest**

1. The Yilan County preliminary round was completed on September 14, with a total of 375 contestants registered. On November 16, the top five representatives from each group will participate in the national finals.
2. Recommendations:
  - (1) The time for setting questions for the preliminary round of the environmental knowledge competition should be pushed forward to provide more time for the agency to check and revise the questions. At the same time, the teachers who set the questions should be informed in advance that the questions will be adjusted according to the actual situation.
  - (2) If the top 30% of the group's registration number is less than 10, 10 people will be selected to enter the sudden death competition, as in this year's high school group. To identify students in the national competition, you can first confirm with the organizer what information is required.



### **(十一) Environmental Protection Volunteer Gathering**

1. A total of 9 units formed 20 competition teams to participate in the preliminary competition in 4 categories, represented by the Shengou Water Source Ecological Park (2 teams), Zhuangwei Township Office Environmental Protection Volunteers, Luodong Town Office Environmental Protection Volunteers and other teams National competition.
2. Four events including Environmental Protection Golden Brain, Resource Classification King, Resource Slam Dunk and Cleaning Relay Race won the national championship and won the Grand Slam.
3. Recommendations:
  - (1) County competition staff should watch the competition video and understand the event process before the event to have a preliminary understanding of the event.
  - (2) In addition, the size and style of the items used in the cleaning relay race should be standardized and provided to the organizers for inspection before the event. At the same time, the event site should test the on-site playback video and projection equipment beforehand to reduce disputes during the competition.
  - (3) The national environmental protection Golden Brain competition system can be changed to not eliminate contestants for answering one wrong question, but to require contestants to answer all four questions before leaving. In addition, the judging standards must be unified.

### **(十二) Organize the environmental education picture book selection and promotion activities**

1. Through reading environmental education picture books, people can learn how to protect the environment and resources, enhance their environmental education concepts, and improve their knowledge and awareness of environmental protection.

2. This year's picture book competition targeted students aged 2-7, but this was not noted in the competition literature, resulting in only a few authors providing phonetic notation versions of their works this year.

### 3. Recommendations

(1) In 2013, our county received 29 picture book submissions, and in 2014, it received 45 submissions, which is a significant increase. In order to encourage the public to continue submitting submissions, it is recommended that the environmental planning education picture book submission be held every year.

(2) According to statistics, more than 15 of the 2014 picture book submissions were created by college students. When organizing related activities, we can call to invite schools to participate.

(3) In order to encourage local residents to pay attention to environmental issues, a proportion of the rankings can be reserved for the residents of Yilan County, such that at least one of the top three is a local resident.

### **(十三) Conduct assessment and training for environmental protection volunteers**

1. In order to improve the conversion rate of volunteers from environmental protection volunteer teams, this project will continue to assist in organizing environmental protection volunteer training courses.

2. In order to ensure the smooth turnover of volunteer service personnel, 1 to 2 volunteer service system operation courses are held every year to help the personnel become familiar with the operation and deepen their impression.

3. Suggestion: In order to improve the convenience of the training courses for environmental protection volunteers in this county, it is recommended that they can be handled online in the future.



#### **(十四) Assist environmental protection and environmental education volunteers with related tasks**

1. Organize one training session on the operation of the Ministry of Health and Welfare's volunteer service system.
2. Organize three evaluations and field evaluations of environmental protection volunteers in 12 towns and cities in 2014, and assist the organizers in compiling and updating the volunteer database and promoting related business.
3. Suggestion: In terms of environmental volunteer assessment, a system login method can be formulated for reference by each office (e.g., log in to the system once every three months, and the login data is the total hours per month or the single service hours, etc.) , so that the town hall can follow.