

A study on local government's strategy of GHG reduction in waste sector - Changhua Country case : 以彰化縣為例

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ABSTRACT

This study estimated the total Changhua County greenhouse gas emissions in 2007 was about 22,901 thousand tonnes of CO₂-e, the major emitting sectors, which account for about 79% of the industrial sector, and the other waste sector greenhouse gas emissions of about 133 thousand tonnes, only accounted for in Changhua County, 0.58% of total emissions. The waste sector, garbage removal, incineration, landfill emissions on the job were 4,641,209,368,2,980 tons. As the waste sector, trash and recycling services work with ordinary people's daily lives, to promote these aspects of carbon reduction measures allow the public has a feeling the first time, so multi-layer environmental policy marketing propaganda the mean; although the waste sector greenhouse gas emissions in total emissions of all developed countries account for only a relatively small proportion, but through the management system and engineering measures to promote the waste management of all operational aspects of the greenhouse gas emissions is still the environmental community can not slack's important work. The research and application AHP (AHP), established in Changhua County for the current general waste and carbon reduction measures in the assessment of the priority program evaluation criteria factors, hierarchical structure, and experts and scholars Qunti way through the assessment criteria and selection program to obtain relative weight between values for four selected programs (the Bag waste and reduce the frequency of garbage collection, incineration / landfill operations to improve business, reduce the high carbon material into the incinerator) in Changhua County, the priority of general waste and carbon reduction measures in the appraisal program . Of the survey, program evaluation in the incineration / landfill operation to improve the operation of the weight value of 0.328; reduce the high carbon material into the incinerator in the weight value of 0.256; refuse the Bag weight value of 0.206; reduce trash weight value of the frequency of 0.200. In the impact assessment of the program selection factors, the importance of the overall weight of the order of political and social values (0.469), economic factors (0.242), environmental benefits (0.176), technical factors (0.112). In the assessment guidelines for acceptance on the population (0.397), the local government to promote the policy determination (0.172), total county levy of junk fees (0.142) and to enhance public environmental / carbon reduction awareness (0.135) to affect the selection results important weighting factor. "Public acceptance" of the assessment criteria in the share value of the most significant weight in line with the modern trend toward democracy system and called on local governments should actively promote communication between people and government and strengthen the propaganda advantage of the policy ideas. Changhua County, according to people for reducing the frequency of trash a questionnaire survey, about 38% of people believe that reducing the frequency of trash will cause trouble of their lives, only about 9% of the population that is not affected, while reducing with garbage collection frequency of about 82% of people are willing / forced with only 18% of people with free will, that and the executive to promote all kinds of new measures / policies will face the phenomenon of initial basic line, that people In the first idea that is not very acceptable to reduce the frequency of garbage collection, but the action will barely meet, so the future to let the people to accept the need to strengthen policy advocacy communication to the public a better understanding of reducing the frequency of garbage collection the advantages Looking AHP evaluation questionnaire results with the public, although the Bag waste and reduce the frequency of the two garbage management policies have successfully promoted the experience of other cities, but in considering the needs and aspirations of its people, the people have been accustomed to in Changhua County general waste management practices currently the case in the short term should be actively promoted in the administrative system can be executed within the incinerator / landfill Chang Ying Yun operation improvement (weight 0.328), in the case does not affect the general public, and strengthen the improvement of existing treatment facilities for treatment way it should be a general waste of Changhua County's priority programs and carbon reduction measures; from promoting the Bag garbage successful experience in Taipei, trash the Bag (weight 0.206) because of its effect on people paying way garbage fee reduce the amount of waste produced and increase the recovery rate in the indirect effects, consistent with the polluter-pays principle of equity in the future should proceed gradually after long-term promotion of public awareness. Key words: Analytic Hierarchy Process (AHP), global warming, garbage removal frequency

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