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## A participatory approach to prevent climate change at Faculty of Medicine, Thammasat University

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Nowadays, climate change is global environmental issues, so the organization should have carbon profile for management of carbon dioxide emission. The purposes of this project are to show the result of carbon footprint that is surveyed from 3rd year medical students and three departments in Faculty of Medicine, Thammasat University, including Department of Education, Transportation and Laboratory. This project used participatory action research among medical students and personnel to reduce carbon dioxide emission in faculty of medicine. Initially, third year medical students were surveyed about energy use in daily life. For the three departments, we used secondary data, including paper and ink use from department of education, diesel use from department of transportation, and chemical substances and electricity use from laboratory. We also created learning activity for third year medical students and collected them the opinions about carbon dioxide reduction. Finally, we presented the results and opinions to the heads of three departments. The results showed that third year medical students emitted carbon dioxide approximately 2.01-ton CO<sub>2</sub> eq/year/person in daily life and gave the opinions about carbon dioxide reduction. Carbon footprint of three departments, including Department of Education, Transportation and Laboratory are 5.92, 6.43, 25.65-ton CO<sub>2</sub> eq/year, respectively. For pre-test and post-test in topic climate change and carbon footprint, the third-year medical students have average score of 85.2%, 97.8 %, 54.8%, 86.6%, respectively.

### Biography

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