

## **Change in the pattern of household expenditure due to removing energy subsidy on emission**

Topic: Environmental IO models 3

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One of the factor influence the intensity of environment pollution is the size of population, but more important factor is the pattern of consumption energy among this population. The iranian economy is going to removing energy subsidy completely and this policy started from the year 2011. The reduction of energy subsidy will affect the consumption energy by all sectors and households. This paper will investigate the effects of removing subsidy on household pattern energy consumption and consequently Carbon Dioxide emission. Whereas computing of subsidy is so complicated this paper will inspect the changes in household expenditure pattern have resulted from increasing different kinds of energy prices. In Iran households are responsible noticeably on CO<sub>2</sub> emission production. In the year 2009 households produced 138.43 million tones CO<sub>2</sub> which was 25 percent of Iranian total emission.

Key words: emission, household expenditure pattern, energy price