

The Study of Direct Energy Consumption of Urban Residents in

China Based on the Modified IPAT- LMDI model

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This paper firstly tries to build the information entropy of direct energy use of urban residents in China which can show the dynamic evolvement rules of energy consumption structure; Secondly it modifies and extends the IPAT equation which can clarify the direct impact of urban residents in China on energy according to consumer lifestyle、 consumption pattern、 propensity to consume and income;Thirdly it builds the complete decomposition model of direct energy consumption of urban residents by LMDI(Logarithmic Mean Divisia Index)method,at the same time amending and expanding one common mistake and limitations in the application of the model.

Key words: Direct Energy Use of Urban Residents;Information Entropy;The Modified IPAT-LMDI Model