

METHOD AND SYSTEM FOR MEASURING URBAN CARBON EMISSIONS

ABSTRACT

Disclosed are a method and system for measuring urban carbon emissions, which belong
5 to the field of energy conservation and emission reduction. An urban map is obtained, and a city is divided into a residence and office region, an industrial production region, a road, and a green region according to the urban map; carbon emissions C_j of the residence and office region are computed, the road is divided into T space units, a type P of a vehicle in a space unit, a number M_p of each type of vehicles, and a traveling distance L_p of each type of vehicles are
10 obtained according to monitoring data and mobile phone data, and carbon emissions C_r of the road are computed; enterprises in the industrial production region are classified into X types of enterprises according to energy consumption types, total energy consumption D_x of each type of enterprises is obtained, carbon emissions C_E of the industrial production region are computed; and maps of the green region in different months are obtained through satellite remote sensing,
15 a type Z of a plant in the green region and a corresponding area A_Z are obtained, carbon sequestration NPP_i of the green region in a current month is computed, total carbon sequestration C_G of the green region is computed, and total urban carbon emissions C_T are computed according to C_j , C_r , C_E , and C_G .

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(FIG. 1)