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Supplementary TableS1 summarizes the sources and licenses of the raw data used for each subcategory of the dataset in this paper. The following subsections elaborate on knowledge of energy data in the Brazilian context, how we obtain each dataset from its sources, and assumptions made in processing and constructing

the datasets.

Brazil has five macroeconomic regions, four electric regions, 27 federal levels (26 states and one federal district-Bras?lia), and 5572 municipalities.

The spatial resolution of the dataset we provide is at ISO 3166-2 level9 and comprises 27 defined regions, i.e., federal level, illustrated in Fig.1.

27 regions defined according to ISO 3166-2-Brazilian federal states-used in this study.

Even though there are several map sources, the original dataset used is from the Brazilian Institute of Geography and Statistics (Portuguese: Instituto Brasileiro de Geografia e Estat?stica, IBGE)<sup>10</sup>. This choice is not only motivated by the licensing but also because IBGE is Brazil's official map source and is considered the most credible source for the country's borders and topography. The shapefile's Coordinate Reference System (CRS) is SIRGAS 2000 (commonly known as EPSG:4674).

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