

## Energy storage for resilience tokyo

It therefore seems commendable that TMG 2050 does not rely on 100% renewables to achieve decarbonization commitments, but instead aims at achievable, cross-sectoral goals that link technology and inclusive governance. The figure shows that TMG 2050 positions renewable energy as a "major energy source" rather than the only source. In fact, the details of TMG's energy planning show that reliance on renewable energy is to be roughly doubled, from 14.1% in 2017 to 30% by 2050.<sup>6</sup>

In the resource/industry sector, 4th in figure 1, TMG aims to ramp up its already aggressive policies of reduce, reuse and recycle (3Rs), particularly in plastics, food waste and fluorocarbons. These latter two - food waste and fluorocarbons - are especially important for any viable strategy of drawing down GHG emissions.<sup>8</sup>

The fifth sector in the figure is "climate change adaptation." TMG 2050 positions adaptation as an explicit part of achieving zero emissions. Indeed, green infrastructure and myriad other adaptation initiatives also enhance mitigation, thereby multiplying co-benefits, reducing per-unit costs, and maximizing societal agreement on action.<sup>9</sup>

Finally, figure 1's sixth sector of "engagement and inclusion" outlines a programme of working with civil society, other levels of government, and international subnational governments and non-state actors. This institutional and societal collaboration is embedded in TMG's role as a metropolitan government, integrating 23 special wards and 39 municipalities. It is also evident in the multiple collaborative platforms - SDG cities, smart cities, national resilience - we describe later below.

The annual spending in TMG's general account is JPY 7.3 trillion. As in previous years, spending from the FY 2020 general account also features the triad of "safety city," "smart city," and "diver-city." But in comparison to previous years, the FY 2020 investments show dramatic increases.<sup>20</sup> The summary details are as follows:

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