



## SOLAR SYSTEM

### MAPDWELL

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Solar System is a rooftop-solar remote assessment platform that allows any community on Earth to discover their underlying solar resources. It reveals the solar potential of any building using state-of-the-art, hyper-precise, advanced technology developed by our team at the Massachusetts Institute of Technology (M.I.T.) and licensed exclusively to Mapdwell.

Mapdwell is mapping solar potential for entire cities and providing a cost-benefit analysis for each rooftop. On the satellite-map website, people can click on an individual roof to receive information about installation price, energy and financial savings, and environmental impact. The idea is to empower businesses and homeowners with the information they need to go solar. So far, the group has mapped eight cities across the U.S., including New York, San Francisco, Boston, Cambridge, and Wellfleet – as well as a few cities in Chile. Mapdwell stands at the vanguard of scientific inquiry and information

technology, expanding the scope and reach of their tools, and exploring new challenges that align information technology with community action.

The team map real-time solar opportunities – energy, daylight and shading – to bring efficiency to our cities, buildings and homes and to optimise the patterns of transportation, working at the intersection of data and design to create effective decision-making tools. Results from mapped cities indicate that, in general, solar panel installation is a “good investment” for long-term homeowners, also providing city-level statistics on “high yield” potential solar capacity and other metrics, giving municipalities a clearer picture of the costs and savings of promoting solar power. For example, was estimated that Boston has about 1.5 GW of untapped solar capacity, Washington D.C. has 2 GW, and San Francisco has roughly 3 GW. New York City, on the other hand, has a whopping 11 GW solar potential. If that capacity were met, solar systems would offset carbon emissions equivalent