ABSTRACT

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Title : Simulation of Thermal Comfort in Taman Monas, Jakarta Using ENVI-met Program

More than 50% of world population live in urban area and it is believed to increase in upcoming years because of urbanization. Urbanization can contribute to changes in temperature and climate condition in urban area. These changes could interfere the thermal comfort of its citizens. In order to minimize this interference, creating green open spaces is one of the solutions. A well-known form of green open spaces in Indonesia is city park. National Monument of Indonesia or better known as Taman Monas is one example. In 2020, Taman Monas was revitalized by the government despite the critics about its environmental impact. An analysis to learn about its thermal comfort was done with simulation using ENVI-met program. The results showed that Taman Monas latest condition during revitalization was much worse than it was during 2019. But, if the revitalization was done according to the plan, Taman Monas would be able to give much better thermal comfort than its current state, almost as close as its 2019 condition.

Keywords: *Thermal Comfort; Town Park; Taman Monas; Revitalization; ENVI-met*