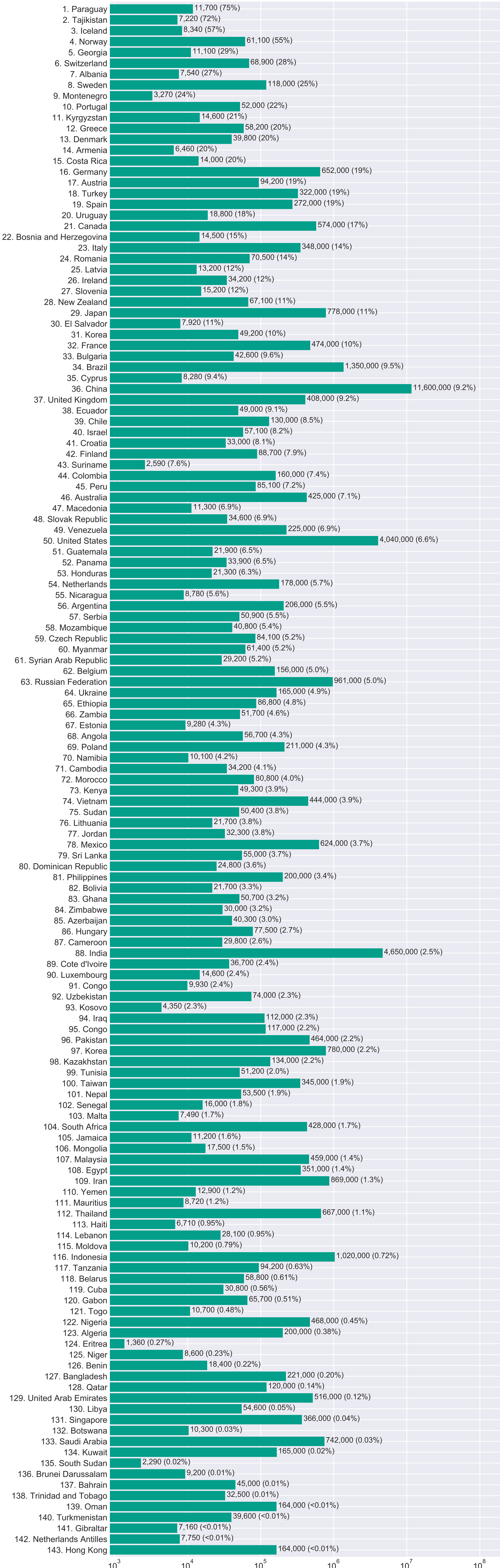


Nameplate capacity (MW) of 2050 WWS needed and percent installed at 2018 end



Nameplate capacity (MW) of 2050 WWS needed and percent installed at 2018 end

Updated from Jacobson et al., 100% Clean and Renewable Wind, Water, and Sunlight All-Sector Energy Roadmaps for 139 Countries of the World, Joule 1, 108-121 (2017).