

Dear Ms. MacLellan:

Thank you for your email of September 12, 2020 to the Minister of Innovation, Science and Industry concerning the charging methods available to electric vehicle (EV) owners. The Minister has asked that I respond on his behalf in my capacity as President of Measurement Canada, given that the administration and enforcement of the *Electricity and Gas Inspection Act* (Act) and its regulations, fall under my responsibilities. As you may know, this federal Act and regulations specify requirements to ensure accuracy in the purchase and sale of electricity on the basis of measurement in Canada.

The use of time-based and flat-fee billing methods, common in Canada and other countries, has allowed the EV charging infrastructure to keep pace with the rise of EV adoption, while giving industry the time to develop and refine technologies necessary for the accurate and reliable measurement of kilowatt hour (kWh) consumption at EV charging stations.

As these technologies continue to evolve, there is increasing evidence that charging consumers by the amount of electricity consumed is a more equitable approach than charging based on the amount of time needed to charge an EV. As a result, Measurement Canada is taking steps to allow EV charging stations to charge based on the number of kilowatts consumed per hour (kWh).

However, allowing this approach to EV charging without any technical standards would put charging station operators and consumers at increased risk of loss due to inaccurate measurement or incorrectly functioning measuring devices. It could also compromise consumer rights, as there would be no accountability or minimum standard to which a registered EV charging station operator must comply.

Over approximately the next 14 months, we expect to allow EV charging stations that meet established technical standards to charge based on kWh consumed. We will do so by working closely with industry as well as monitoring requirements other countries are developing, and advances and innovations in EV charging station technologies. The requirements will be performance-based with a view to minimizing costs and regulatory burden for EV charging station operators, while ensuring consumers receive accurate and reliable measurement, as well as protection against unfair practices.

We will also work with EV charging station operators to evaluate EV charging stations at their installation site under typical conditions of use. If these stations meet the technical standards, they will be approved to charge for electricity consumed based on kWh.

To find updates on our progress, please visit [Electric vehicle charging stations](#) or mc.gc.ca .

Sincerely,

Diane Allan

President, Measurement Canada
Innovation, Science and Economic Development Canada / Government of Canada
Diane.Allan@canada.ca / Tel: 613-952-0655 / TTY: 1-866-694-8389

Présidente, Mesures Canada
Innovation, Sciences et Développement économique Canada / Gouvernement du Canada
Diane.Allan@canada.ca / Tél. : 613-952-0655 / ATS : 1-866-694-8389