

## IESO Engagement

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**From:** John Thursby  
**Sent:** July 17, 2019 3:43 PM  
**To:** IESO Engagement  
**Subject:** Re: Future Electrical Needs

Further to my earlier response, which was rather rushed, I would like to comment that, although my previous comments were in response to Toronto electricity planning, they also apply to power supplies in general, and need consideration at every level of planning.

In Australia, Tesla has supplied a giant battery power plant, which has saved \$ A40 million, and they are installing a second plant. More suited to individual cities, power packs in conjunction with solar panels are being used in houses; in Britain, power packs are used to recharge electric buses, supply back-up power to universities, and other uses.

I believe that when planning modern power systems, the use of battery power packs, must be part of the system, and our system designers need to talk to battery producing companies, and make visits to places where they are being utilised..

By the way, I have absolutely no connection whatsoever with Tesla, but am impressed by how they are advancing technology.

cheers  
John

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**From:** John Thursby  
**Sent:** July 16, 2019 8:23 PM  
**To:** IESO Engagement  
**Subject:** Future Electrical Needs

Surely the most important, future, electrical needs are in the transportation industry. There appears to be a general belief that the future will require everyone to drive electrical hybrid autos, and the big question is, from where do we obtain the energy to (re)charge these vehicles?

I sincerely believe that the only way we can transition to electrical driven autos, is by way of battery charging capability. I believe Tesla have been working on large batteries that could perform this required service.

Vehicles must be able to carry their own power source (batteries) with them; and then the batteries can be recharged using solar, wind, or water power, thus not contributing to a large carbon footprint.

Attention must also be given to the power requirements of the internet, which, as I learned today, is the 4th largest power user, after China, USA, and Europe.

Sincerely

J.P. Thursby