



David Roberts Opening Remarks for the EV Product Commission 11.23.21

Good morning

My name is David Roberts, and I serve as the Chief Innovation Officer for the State at the IEDC. On behalf of the IEDC, I have been asked to help staff this Commission, and my colleague Greg Lannan and I are honored to do so.

In addition to serving the state, I am a VP with NAATBatt International, the nonprofit national association promoting development and commercialization of energy storage technology and the revitalization of advanced battery manufacturing in North America.

Before assuming this role, I was the President of Battery Innovation Center, and before that, I was the CEO of EnerDel in the early part of the last decade. I formally entered the battery industry after working at Caterpillar on their hybrid powertrain technology in the late 2000's.

With that background, I can firmly say that it is fulfilling and inspiring to see this commission come together to take on the significant – and critical – task of helping our state's businesses and citizens navigate the transition that is currently underway to future mobility solutions that incorporate powertrains based on very different technologies.

I have provided a handout in front of you that shows the value of the Lithium ion battery market, the dramatic increase in market penetration of EVs in the next 10-12 years, and the need for materials to support this growth.

Additional reference materials that are not being entered into the official record indicate broad international adoption of net-zero targets throughout North and South America, Europe, and parts of Asia.

Nearly every major auto OEM has announced powertrain targets that are hybrid or all-electric or some other technology at some point between 2030-2050.

Facilitating this rapid change in part is the 89% decrease in price of lithium ion batteries from ~\$1200 in 2010 to ~\$137 on a per kWh basis.

Indiana has played a vital role in the development of mobility solutions for nearly 125 years. The Ft. Wayne area was Detroit before Detroit was Detroit! But this history is not a birthright, and the state must choose to compete in order to win the future we want. And by doing the hard work this Commission is designed to do, we can set the stage for Hoosiers to continue to play a role in the mobility segment for generations to come.

Thank you for your commitment to this important endeavor.