



COMMISSION MEETING MINUTES

Electric Vehicle Product Commission
Battery Innovation Center
7970 S Energy Dr
New Berry, IN 47449
Thursday, June 9, 2022

1. Pursuant to IC 9-13-3, the Electric Vehicle Product Commission (the Commission) meeting was called to order by Chairman Ben Wrightsman at 1:35 p.m. EST on Thursday, June 9, 2022. The meeting was conducted in person and virtually.

a. Commission members physically present at the meeting:

Ben	Wrightsmen	Battery Innovation Center
Rep. Mike	Karickhoff	State Representative

b. Commission member virtually present at the meeting:

Danny	Ernstes	UAW
David	Dukes	Stellantis
Mike	Maten	General Motors
Paul	Mitchell	Energy Systems Network
Sen J.D.	Ford	State Senator

c. Commission members absent from the meeting:

Rep. Carey	Hamilton	State Representative
Sen. Jim	Buck	State Senator

d. The Commission approved the previous meeting minutes.

2. Opening Comments

Ben Wrightsman: There has been some great momentum made over the past couple of weeks. There are some great things happening in Indiana. We have some people joining us at BIC and we are excited to hear from them.

3. Commission Purpose's update:



Purposes 2,3,4, & 7

Danny Ernstes: We have been working daily with Purdue. We will need input from others on the Commission as we progress.

Steve Dunlop (Purdue University): At a high level, we have broken the research into four tracks. First, we are looking at research production capabilities. The second track is education. The third is a pain / gain analysis which looks at the implications by country as we transition to electric and finally the report. We are also building a website to house information relating to EV education and other resources.

Rep. Karickhoff: Will the student perspective add insight into what education is needed?

Steve Dunlop: It will be a value add. Ivy tech will also provide a valuable perspective. The website will help laborers who have been displaced understand what new competencies they need.

Ben Wrightsman: We also need to quantify the number of skilled and unskilled laborers in the state.

Danny Ernstes: The research has identified ICE vs EV laborers.

Purpose 5

Mike Maten: Indiana has 13 manufacturing facilities, 32,600 careers, and 24.2 million Ft² of manufacturing space. In terms of manufacturing competencies for internal combustion engines (ICE) and electric vehicle, most of the requirements are the same. However, from an energy transfer, electrical, and software manufacturing they are as difficult or harder to make.

David Dukes: For EVs the gear quality must be a little higher because there is only one piece and no car noise to hide some things.

Mike Maten: EVs have several new additions. There are new electrical needs because of chargers. EVs have the same engineering competencies but they have high voltage electrical systems. Software also becomes a bigger issue especially cyber security. We also do not want to forget about labs and garages where testing takes place. For the skilled trades, many workers will perform the same duties but need special training because of the high voltage components. There will also be workforce needs for battery



production and charging infrastructure.

David Dukes: Indiana has seen several new investments that will support EVs and battery production.

Paul Mitchell: How will the announcement of Stellantis's new Indiana factory benefit Indiana's ecosystem?

David Dukes: This will increase what Indiana has to offer. Overall, it grows Indiana's footprint.

Paul Mitchell: I think it allows Indiana to go after new opportunities for upstream and downstream companies.

Rep. Karickhoff: To echo some comments from Governor Holcomb and Secretary Chambers, the supply line will be greatly benefited by the Stellantis investment.

Purposes 6 & 8

Ben Wrightsman: I have put together a framework for our report and am also considering who could write our report. We have also been doing additional polling to bolster the data. I have also had conversations to understand opportunities related to resources and recycling. The material supply chain is extremely important, and I am adding this into our section of the report. This also plays into the R&D side. There is an opportunity to look at next generation materials.

Mike Maten: We should not forget about stationary storage. This will become a critical part of our infrastructure and there will be a manufacturing need for this.

Ben Wrightsman: I think we should highlight that this is complementary but leave the energy distribution part to other commissions. We will also add a small part about hydrogen, this adds cross relevance to our report and others.

4. Legislative Update:

Rep. Karickhoff: Sen. Koch, Rep. Soliday, and I had a conversation about how our commissions need to interact. I could not be prouder of Dave Roberts for his work on the Global Economic Summit. The change to electric is coming fast and we need to be prepared.

5. New Business:



Ben Wrightsman: I had TP Miller and Associates and Bloomberg New Energy Finance reach out to talk about the Commission's work. Is everyone okay with me following up with them? I would like to have several members of the Commission join me in these conversations.

6. Public Comment:

Bill Easter – Semplastics X-MAT

I am impressed with the success here in Indiana. As it relates to recycling a spent LIB battery, it is possible to recycle these batteries and we can do it. It is important that the supply chain is circular.

7. Closing Remarks:

None

8. Scheduling of Future Meetings:

Tentatively scheduled for the 23 or 24 at the Indiana Government Center.

9. Adjournment:

The meeting was adjourned at 3 p.m. by Chairman Wrightsman.