



## COMMISSION MEETING MINUTES

Electric Vehicle Product Commission  
Indiana Government Center  
302 W Washington St  
Indianapolis, IN 46204  
Friday, August 12, 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 9:35 p.m. EST on Friday, August 12, 2022. The meeting was conducted in person and virtually using Microsoft Teams.

a. Commission members physically present at the meeting:

Ben	Wrightsmen	Battery Innovation Center
Michael	Maten	GM
Danny	Ernstes	UAW
Craig	Kelle	Toyota
Sen. Jim	Buck	State Senator
Rep. Mike	Karickhoff	State Representative
Sen. J.D.	Ford	State Senator

b. Commission member virtually present at the meeting:

David	Dukes	Stellantis
-------	-------	------------

c. Commission members absent from the meeting:

Paul	Mitchell	Energy Systems Network
Rep. Carey	Hamilton	State Representative

d. The Commission approved the previous meeting minutes.

2. Opening Comments

Ben Wrightsman: I am excited for today's meeting. We are getting close to submitting the report, there has been a lot of great work and research. The research from Danny and team is mostly draft, there may be updates and this is not final.



### 3. Commission Purpose's update:

#### *Purpose 1*

Dave Roberts: I do not have any updates. We are very pleased with the assets that we are building in the state.

#### *Purposes 2, 3, & 4*

Steve Dunlop: There are several manufacturing plants across the state; these are major and minor assembly plants and served as our starting point for the research. There are 768 unique ICE companies and 168 unique EV companies in the state.

Steve Dunlop: This map shows the number of primary and satellite sites that Ivy Tech has across the state. The map also shows several other institutions that might train employees. There are more training programs across the state, but they can be hard to find.

Ben Wrightsman: Where are batteries looped into this?

Steve Dunlop: Batteries are included in the power systems section.

Mike Maten: It is important to remember that the people who work on non-engine parts of a car will be able to transition to working on EVs.

Steve Dunlop: By looking at where ICE and EV companies are located across the state, we will be able to see where there are training gaps.

Mike Maten: It is important to differentiate between battery and cell manufacturing. We also need to note that there have been several major announcements across the state.

Rep. Karickhoff: The number of suppliers and secondary companies that want to be near a cell manufacturer is massive. Kokomo has heard from many companies who want to be near the new Stellantis plant.

Steve Dunlop: We also note the number of recycling companies across the state, but it was slightly challenging for us to identify them. Recycling will play a major role in the growth of EVs because we could run out of battery materials in the future.

Danny Ernstes: As the technology in EVs continues to develop and the mass production of EVs grows, the need for a more specialized workforce increases. Manufacturers will



seek a workforce that has traditional competencies and several new skills. These will be competencies that are transferable and will support different business models. Ivy Tech and many other colleges are developing programs and majors to train students in this way.

Ben Wrightsman: Control and management systems will need updates and students will need training in this area.

Sue Smith: We mapped and compared propulsion system competencies to our training programs. We have 22 labs across the state, and we can teach just about all the skills an employee may need. We have battery safety and high voltage training, but we need input from manufacturers because the skills are always changing.

Danny Ernstes: We also have the EV portal. This page contains, courses, academic programs, learning paths, and related articles. This will help students learn and access educational materials.

Rep. Karickhoff: Do any other industries use a portal like this?

Steve Dunlop: I am not exactly sure but there are portals that do similar things.

Sen. Buck: In a portal like this, it is important to note which credits transfer between institutions across the state.

#### *Purposes 4 & 5*

Craig Kelle: No new updates from us. We have been updating and getting our research into report form.

#### *Purposes 6 & 8:*

Ben Wrightsman: We have seen a lot of industries that have spun out of EVs. Whether it is motorcycles, scooters, or heavy-duty trucks. We have also been looking into recycling and material production. Batteries need graphite and China is responsible for most of the production. Some companies are looking at alternatives to graphite and we hope to include that in the report.

Rep. Karickhoff: How long would it take an American company to start refining the material here?

Ben Wrightsman: From what I have heard, it would take 15 years or so depending on permits.



Michael Maten: The new CHIPS Act could help progress the EV industry in Indiana. There are substantial amounts of money that companies, and the state could take advantage of.

Ben Wrightsman: As it relates to R&D, there has been discussion around recycling, materials, production, and localization of materials.

4. Legislative Update:

Sen. Buck: I am trying to find out how expensive it is to add a charging station to a house. My goal is to encourage the housing industry to prebuild EV charging infrastructure into homes. I am looking at an incentive for the builder and not the home buyer.

5. New Business:

Ben Wrightsman: I would like to introduce Courtney Zaugg. She will be the one writing the report and working with you all.

6. Public Comment:

None

7. Closing Remarks:

Ben Wrightsman: Hopefully, we can get other OEMs to participate in future research and reports.

8. Scheduling of Future Meetings:

The group plans to meet on August 26, 2022, at 9:30 a.m.

9. Adjournment:

The meeting was adjourned at 11:30.