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SENATE

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P. S. RES. NO. 557

Introduced by Senator JOEL VILLANUEVA

RESOLUTION

DIRECTING THE SENATE COMMITTEE ON LABOR, EMPLOYMENT AND HUMAN RESOURCES DEVELOPMENT, AND OTHER APPROPRIATE COMMITTEE/S TO CONDUCT AN INQUIRY, IN AID OF LEGISLATION, ON ANTICIPATING THE WORKFORCE REQUIREMENTS AND POTENTIAL SKILLS GAP OF THE PHILIPPINE ELECTRIC VEHICLE INDUSTRY

WHEREAS, in April 2022, Republic Act No. 11697, otherwise known as the “Electric Vehicle Industry Development Act,” was passed into law;

WHEREAS, the said law declares the policies of the State to, among others: provide an enabling environment for the development of electric vehicles; and promote and support innovation in clean, sustainable, and efficient energy;

WHEREAS, according to the Philippine Institute for Development Studies (PIDS), from 2010 to 2019, there were 11,950 electric vehicles registered with the Land Transportation Office (LTO), consisting of e-jeepney, e-quad, e-trike, e-bike, and e-car segments, with e-trikes having the largest share at 57%;¹

WHEREAS, the Department of Energy (DOE) is pushing for an increase in the rollout of electric vehicles in the country from five percent (5%) to ten percent (10%) under the Electric Vehicle Industry Development Act;²

WHEREAS, under the short-term period (2023-2028) the DOE targets the roll out of 2,454,200 electric vehicles composing of cars, tricycles, motorcycles, and buses

¹ Rosellon, Maureen Ane D., Clean Energy Technology in the Philippines: Case of the Electric Vehicle Industry, Philippine Institute for Development Studies, April 2021. Retrieved from <https://pidswebs.pids.gov.ph/CDN/PUBLICATIONS/pidsdps2115.pdf> (date last accessed March 18, 2023).

² Department of Energy Public Consultations on CREVI set; DOE doubling the mandatory EV fleet adoption.

plying nationwide, with 65,000 electric vehicle charging stations installed nationwide. For the medium term (2029-2034), the DOE targets an additional 1,851,500 electric vehicles and 42,000 electric vehicle charging stations. Lastly, for the long-term, from 2034-2040, 2,001,600 electric vehicles will be added, along with 40,000 charging stations;³

WHEREAS, ongoing nationwide public consultations are being conducted by the DOE to discuss, among others, the Comprehensive Roadmap for the Electric Vehicle Industry (CREVI),⁴ and related Department Circulars pertaining to the guidelines for accreditation of charging stations, unbundling of charging station fees, and the recognition and adoption of electric vehicle standard classification on road transport for incentive eligibility;⁵

WHEREAS, according to the 2021 study of the Philippine Institute for Development Studies, there are currently twenty-eight (28) firms that are engaged in the manufacturing of various electric vehicles, eleven (11) parts and component manufacturers and seven (7) importers, dealers, and traders in the Philippines. At present, the industry has generated jobs for 14,840 individuals;⁶

WHEREAS, the development of the electric vehicle industry brings with it many opportunities for the labor workforce. Based on the Labor Market Information on Electric Vehicles of Technical Education and Skills Development Authority (TESDA), workforce requirements are anticipated in the following areas:⁷

- (a) Parts and Vehicle Manufacturing (Electrical Assembly Personnel, Mechanical Assembly Personnel, and Test Technicians);
- (b) Vehicle Operations, Maintenance and Repair (Fleet Manager, Electrical Service and Mechanical Service Technicians, Driver, and Fleet and Depot Safety Officer);
- (c) Charging System Assembly and Installation (Supply Equipment Installation Technician, Charging Facility Manager/Safety Officer, Service Personnel, Technical Support Associate, and Repair and Maintenance);
- (d) Sales and Marketing (Sales Representative, Test Drive Support Staff, Customer Service Manager);

³ Ibid.

⁴ Ibid.

⁵ Department of Energy, Invitation to the Virtual Public Consultation of the Electric Vehicle (EV) related Department Circulars and Presentation of the Comprehensive Roadmap for the Electric Vehicle Industry (CREVI). Retrieved from <https://www.doe.gov.ph/announcements/invitation-virtual-public-consultation-electric-vehicle-ev-related-department> (date last accessed: March 18, 2023).

⁶ Rosellon, Maureen Ane D., Clean Energy Technology in the Philippines: Case of the Electric Vehicle Industry, Philippine Institute for Development Studies, April 2021. Retrieved from <https://pidswebs.pids.gov.ph/CDN/PUBLICATIONS/pidsdps2115.pdf> (date last accessed March 18, 2023).

⁷ 2019, Market Information – Electric Vehicle Industry, Technical Education and Skills Development Authority. Retrieved from: [https://www.tesda.gov.ph/Uploads/File/Planning/Planning%202019/LMIR/19.10.24_Quick%20LMI_Electric%20Vehicle%20\(Web%20Format\).pdf](https://www.tesda.gov.ph/Uploads/File/Planning/Planning%202019/LMIR/19.10.24_Quick%20LMI_Electric%20Vehicle%20(Web%20Format).pdf) (date last accessed: March 19, 2023).

(e) Regulations (Standards Test Technician, Motor Vehicle Inspection System Testing Specialist, Environmental Officer for Battery Recycling); and

(f) Emergency Response and Recovery (Rescue Service Personnel, Medical Emergency Service Personnel, and Vehicle Recovery and Handling Personnel);

WHEREAS, the promotion of the electric vehicle industry will likewise bring with it challenges, including the possibility of a skills gap in the sector. The Institute of the Motor Industry stated that in the United Kingdom (UK), roughly 16% of technicians had the relevant qualifications to work on electrified vehicles,⁸ and it predicts a 160,000 shortfall of workers in the UK automotive sector by 2031;⁹

WHEREAS, it is undoubtedly vital for the growth of the industry for the government and society to anticipate and prepare for the skills shortage brought about by technological advancements in the automotive sector, which include efforts in government support for training, collaboration with industry stakeholders, curricula adjustments in education, apprenticeship and knowledge, technology, and skills transfer opportunities;

WHEREAS, there is also a need to conduct further research, consultations, and analysis on the human resource requirements for the electric vehicle industry in the Philippine context, establish and review existing mechanisms to anticipate potential skills gap vis-à-vis the development and growth of the industry, and ensure that there are sufficient trainers, assessors, and opportunities for the development of the workforce, among other initiatives;

WHEREAS, it is equally important to implement and sustain long-term workforce and skills needs analysis, anticipation, and planning mechanisms that are future-oriented, and to identify, monitor, and proactively respond to global trends and drivers of change and in skills demand and supply, to avoid or reduce present or potential skills mismatch;

NOW, THEREFORE, BE IT RESOLVED BY THE SENATE OF THE PHILIPPINES, that the Senate Committee on Labor, Employment and Human Resource Development and other appropriate Committee/s of the Senate, conduct an inquiry, in aid of legislation, in anticipation of the workforce requirements and potential skills gap brought about by the development and growth of the Philippine electric vehicle industry.

Adopted,


JOEL VILLANUEVA

⁸ 04 January 2023, Dampened EV demand must not see the sector take its foot of the skills pedal, Institute of the Motor Industry, Retrieved from: <https://tide.theimi.org.uk/industry-latest/news/dampened-ev-demand-must-not-see-sector-take-its-foot-skills-pedal> (date last accessed: March 20, 2023).

⁹ Automotive Sector Employment 2021-2031, Institute of the Motor Industry. Retrieved from: https://tide.theimi.org.uk/sites/default/files/2022-07/Automotive%20Sector%20Employment%202021-31_0.pdf (date last accessed: March 20, 2023).