5 – List of relevant sources

This chapter includes the list of collected sources (books, online sources, videos, websites etc.) which can be used during the elaboration of the training materials and/or can be added to a reading list for providing further information to students and e-learners.

MODUL 1

History of Electric Vehicles

Title	Author	Hyperlink or Publisher & Publishing Date	Language
Electric vehicles charge forward	C. C. Chan and Y. S. Wong	IEEE Power and Energy Magazine, vol. 2, no. 6, pp. 24-33, Nov.-Dec. 2004, doi: 10.1109/MPAE.2004.1359010, Link	English
Charge! EVs power up for the long haul	C. B. Toepfer	IEEE Spectrum, vol. 35, no. 11, pp. 41-47, Nov. 1998, doi: 10.1109/6.730519, Link	English
A Brief History and Evolution of Electric Cars	Christopher McFadden	Link	English
Az elektromos autózás rövid története	Unkown	Link	Hungarian

Title	Author	Hyperlink or Publisher & Publishing Date	Language
Electric Vehicle Batteries Eye Solid-State Technology: Prototypes Promise Lower Cost, Faster Charging, and Greater Safety	A. Bindra	IEEE Power Electronics Magazine, vol. 7, no. 1, pp. 16-19, March 2020, doi: 10.1109/MPEL.2019.2961203 Link	English
The prospects of panel style nano-battery technology for EV/HEV	A. Rahman, M. Rashid, A. K. M. Mohiuddin and H. Moktar	2015 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), Singapore, 2015, pp. 1531-1535, doi: 10.1109/IEEM.2015.7385903, Link	English
Electric vehicle battery technologies: From present state to future systems	Sergio Manzetti – Florin Mariasiu	Link	English
Performance and cost of materials for lithium-based rechargeable automotive batteries	Richard Schmuch et al.	Link	English
Current Li-Ion Battery Technologies in Electric Vehicles and Opportunities for Advancements	Yu Miao et al.	Link	English
Advances in battery technologies for electric vehicles	Bruno Scrosati et al.	Link	English
Five emerging battery technologies for electric vehicles	Jack Karsten and Darrell M. West	Link	English
Impacts of Electric Vehicles - Deliverable 2. Assessment of electric vehicle and battery technology	Gopalakrishnan Duleep et al.	Link	English

Technology Development of Electric Vehicles: A Review	Xiaoli Sun et al.	Link	English
Electric vehicles and battery technologies	VTT	YouTube link	English
Innovation in Battery Technologies for Electric Vehicles	n.a.	Link	Romanian
Akkumulátor technológia: a jövő akkumulátorai	Peter Magyar	Link	Hungarian

MODUL 2

Charger Types

Title	Author	Hyperlink or Publisher & Publishing Date	Language
Different fast charging methods and topologies for EV charging	N. Trivedi, N. S. Gujar, S. Sarkar and S. P. S. Pundir	2018 IEEMA Engineer Infinite Conference (eTechNxT), New Delhi, 2018, pp. 1-5, doi:10.1109/ETECHNXT.2018.8385313, Link	English
Fast charging system of electric vehicle (EV) based on hybrid energy storage system	F. Liu, J. Liu, B. Zhang and H. Zhang	2012 Twenty-Seventh Annual IEEE Applied Power Electronics Conference and Exposition (APEC), Orlando, FL, 2012, pp. 2115-2120, doi: 10.1109/APEC.2012.6166113, Link	English
A Bidirectional Wireless Power Transfer EV Charger Using Self-Resonant PWM	J. Lee and B. Han	IEEE Transactions on Power Electronics, vol. 30, no. 4, pp. 1784-1787, April 2015, doi: 10.1109/TPEL.2014.2346255	English
Elektromos autó töltő típusok	e-cars.hu	Link	Hungarian

Electrical Connections

Title	Author	Hyperlink or Publisher & Publishing Date	Language
Grid integration of DC fast-charging stations for EVs by using modular li-ion batteries	M. Gjelaj, S. Hashemi, C. Traeholt and P. B. Andersen	IET Generation, Transmission & Distribution, vol. 12, no. 20, pp. 4368-4376, 13 11 2018, doi: 10.1049/iet-gtd.2017.1917 Link	English

Power quality and stability impacts of Vehicle to grid (V2G) connection	E. Alghsoon, A. Harb and M. Hamdan	2017 8th International Renewable Energy Congress (IREC), Amman, 2017, pp. 1-6, doi: 10.1109/IREC.2017.7925995 Link	English
Electrical Vehicle Charging	niceic.com	Link	Hungarian

Licensing and Permitting

Title	Author	Hyperlink or Publisher & Publishing Date	Language
Efficient Allocation of Electric Vehicles Charging Stations: Optimization Model and Application to a Dense Urban Network	F. Baouche, R. Billot, R. Trigui and N. El Faouzi	IEEE Intelligent Transportation Systems Magazine, vol. 6, no. 3, pp. 33-43, Fall 2014, doi: 10.1109/MITS.2014.2324023 Link	English
243/2019. (X. 22.) Korm. Rendelet az elektromobilitás szolgáltatás egyes kérdéseiről	Hungarian Government	Link	Hungarian
Határozat: elektromos gépjármű töltésére vonatkozó engedély	A Magyar Energetikai és Közmű-szabályozási Hivatal	Link	Hungarian
Töltőtelepítés szabályai Magyarországon – 100 milliós bírság a tét!	n.a.	Link	Hungarian

Installation

Title	Author	Hyperlink or Publisher & Publishing Date	Language
How Electric Vehicles and the Grid Work Together: Lessons Learned from One of the Largest Electric Vehicle Trials in the World	J. Quiros-Tortos, L. Ochoa and T. Butler	IEEE Power and Energy Magazine, vol. 16, no. 6, pp. 64-76, Nov.-Dec. 2018, doi: 10.1109/MPE.2018.2863060 Link	English
VEHICLE-TO-GRID NETWORKS	D. H. K. Tsang, Y. Zhang, Y. Wu and A. Leon-Garcia	IEEE Network, vol. 31, no. 2, pp. 6-7, March/April 2017, doi: 10.1109/MNET.2017.7884942 Link	English
How-To Guide: electrical vehicle charger installation	City of Boston brochure	Link	English

MODUL 3

Electricity Standards

Title	Author	Hyperlink or Publisher & Publishing Date	Language
Performance Evaluation of a Multi-Standard Fast Charging Station for Electric Vehicles	I. Zenginis, J. Vardakas, N. Zorba and C. Verikoukis	IEEE Transactions on Smart Grid, vol. 9, no. 5, pp. 4480-4489, Sept. 2018, doi: 10.1109/TSG.2017.2660584, Link	English
IEEE 1609 WAVE and IEC 61850 Standard Communication Based Integrated EV Charging Management in Smart Grid	S. M. S. Hussain, T. S. Ustun, P. Nsonga and I. Ali	IEEE Transactions on Vehicular Technology, vol. 67, no. 8, pp. 7690-7697, Aug. 2018, doi: 10.1109/TVT.2018.2838018, Link	English
Electric Vehicle Charging Technology Analysis And Standards	Doug Kettles	Link	English

Safety Considerations

Title	Author	Hyperlink or Publisher & Publishing Date	Language
Electrical safety of electric vehicle.	F. Freschi, M. Mitolo and R. Tommasini	2017 IEEE/IAS 53rd Industrial and Commercial Power Systems Technical Conference (I&CPS), Niagara Falls, ON, 2017, pp. 1-5, doi: 10.1109/ICPS.2017.7945109 Link	English
Electrical Safety Considerations in Large-Scale Electric Vehicle Charging Stations	B. Wang, P. Dehghanian, S. Wang and M. Mitolo	IEEE Transactions on Industry Applications, vol. 55, no. 6, pp. 6603-6612, Nov.-Dec. 2019, doi: 10.1109/TIA.2019.2936474, Link	English

Safety considerations for electric vehicles and regulatory activities	Costandinos Visvikis	Link	English

Regular Maintenance

Title	Author	Hyperlink or Publisher & Publishing Date	Language
Research on coordinated charging and influence of EV based on distributed charge control	C. Xu, J. Shi, X. Han, J. Ma and D. Lv	2017 Chinese Automation Congress (CAC), Jinan, 2017, pp. 5766-5769, doi: 10.1109/CAC.2017.8243813, Link	English
Controlling EV charging and PV generation in a low voltage grid	J. Groenbaek, S. Bessler and C. Schneider	22nd International Conference and Exhibition on Electricity Distribution (CIRED 2013), Stockholm, 2013, pp. 1-4, doi: 10.1049/cp.2013.1150 Link	English
Impacts of Electric Vehicles - Deliverable 2 - Assessment of electric vehicle and battery technology	Gopalakrishnan Duleep (ICF) Huib van Essen (CE Delft) Bettina Kampman (CE Delft) Max Grünig (Ecologic)	CE-publications are available from www.cedelft.eu., Delft, April 2011	English
Electric cars vs Petrol cars	Learn Engineering	YouTube link	English

Error Management

Title	Author	Hyperlink or Publisher & Publishing Date	Language
State of charge, state of health, and state of function monitoring for EV BMS	Zong-You Hou, Pang-Yen Lou and C. Wang	2017 IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, NV, 2017, pp. 310-311, doi: 10.1109/ICCE.2017.7889332, Link	English

Electric cars: technical characteristics and environmental impacts	Eckard Helmers & Patrick Marx	Link	English

EV Charger Fault Diagnoses

Title	Author	Hyperlink or Publisher & Publishing Date	Language
A fuzzy logic approach for fault diagnosis and recovery in PHEV and EV chargers	W. Chen, L. Wang, A. Ulatowski and A. M. Bazzi	2014 IEEE Transportation Electrification Conference and Expo (ITEC), Dearborn, MI, 2014, pp. 1-5, doi: 10.1109/ITEC.2014.6861758, Link	English
Fault Diagnosis of Power Components in Electric Vehicles	Fei Lin, K. T. Chau, C. C. Chan, Chunhua Liu	Link	English

MODUL 4

Management of EV Chargers

Title	Author	Hyperlink or Publisher & Publishing Date	Language
Deploying Electric Vehicles Into Shared-Use Services: Amping up Public Charging Demand to Justify an Investment in Infrastructure	P. Kosak	IEEE Electrification Magazine, vol. 7, no. 1, pp. 32-38, March 2019, doi: 10.1109/MELE.2018.2889548 Link	English
Managing the Charging of Electrical Vehicles: Impacts on the Electrical Grid and on the Environment	R. Faria, P. Moura, J. Delgado and A. T. de Almeida	*IEEE Intelligent Transportation Systems Magazine*, vol. 6, no. 3, pp. 54-65, Fall 2014, doi: 10.1109/MITS.2014.2323437 Link	English
Electric Vehicles Charging: Management and Control Strategies	F. J. Soares, D. Rua, C. Gouveia, B. D. Tavares, A. M. Coelho and J. A. P. Lopes	IEEE Vehicular Technology Magazine, vol. 13, no. 1, pp. 130-139, March 2018, doi: 10.1109/MVT.2017.2781538 Link	English
Development and trends in Electric Vehicles and charging infrastructures	Joan Pallisé	Link	English
Charging ahead: Electric-vehicle infrastructure demand	Hauke Engel, Russell Hensley, Stefan Knupfer, and Shivika Sahdev	Link	English

Smart Management

Title	Author	Hyperlink or Publisher & Publishing Date	Language
Profitability analysis of grid supporting EV charging management	R. Uhlig, S. Harnisch, M. Stötzel, M. Zdrallek and T. Armoneit	CIRED - Open Access Proceedings Journal, vol. 2017, no. 1, pp. 1945-1948, 10 2017, doi: 10.1049/oap-cired.2017.0219 Link	English
Assessment of Technical and Economic Impacts of EV User Behavior on EV Aggregator Smart Charging	J. Clairand, J. Rodríguez-García and C. Álvarez-Bel	Journal of Modern Power Systems and Clean Energy, vol. 8, no. 2, pp. 356-366, March 2020, doi: 10.35833/MPCE.2018.000840 Link	English
ELECTRIC-VEHICLE SMART CHARGING INNOVATION LANDSCAPE BRIEF	IRENA	Link	English
What is OCPP? What is OCPP's relevance to Electric Vehicle Charging?	Evreporter	YouTube link	English