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Dr. Muhammad Akimaya

Assistant Professor of Economics

Interdisciplinary Research Center for Renewable Energy and Power Systems (IRC-REPS)

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Executive Summary:

An applied economist with a specialization in energy policy, energy markets, political economics and valuation. Experienced with the literature and publications in the field of energy, specifically in energy policies (subsidies) and its impact on welfare. Well-equipped with programming skills and proficient with statistical software, in which both complements the ability in market modelling. The real market can be accurately represented using mathematical software and can be further simulated for shocks and policy analysis.

The current research focuses on hydrogen research especially the economic impact of further development of hydrogen market as well as investments decisions regarding hydrogen production.

Education:

- ❑ PhD Mineral and Energy Economics [Colorado School of Mines, 2017]
- ❑ MS Mineral and Energy Economics [Colorado School of Mines, 2013]
- ❑ BSc Electrical Engineering [Purdue University, West Lafayette, 2008]

Distinguished Work

- Akimaya, M., & Dahl, C. (2017). Simulation of price controls for different grades of gasoline: the case of Indonesia. *Energy Economics* (68) pp. 373-382. <https://doi.org/10.1016/j.eneco.2017.10.012>
- Akimaya, M., & Dahl, C. (2018). Estimating the cross-price elasticity of regular gasoline with respect to the price of premium gasoline. *Journal of Transport Economics and Policy*, Volume 2, Part 2, pp. 157-180.
- *Consultancy work* "The economic impact of hydrogen to the economy of Saudi Arabia" with KACARE, Saudi Arabia, Role: *PI*.

Research Summary

- Number of Published Papers: 2
- Citations : 6
- H-Index : 2
- Article Reviewed (Elsevier, Springer, MDPI): 1

Award and Recognitions

Skills and Expertise

- Energy market economics and modelling
- Energy policy and welfare analyses
- Statistical software; Stata, SAS
- CGE Modelling using GAMS
- Valuation using traditional DCF analysis, Monte Carlo Simulation (Crystal Ball), and Real Options
- Mathematical and modeling software such as Mathematica and Matlab