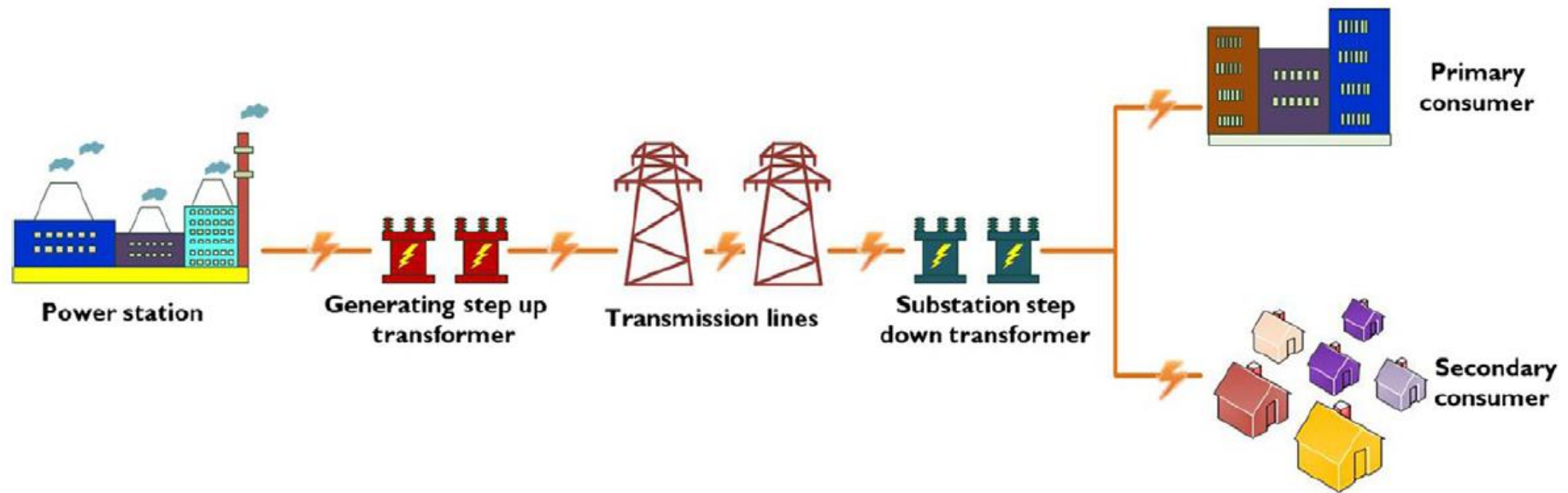


## **ENEE4403 - POWER SYSTEMS**

By  
**Dr. Jaser Sa'ed**

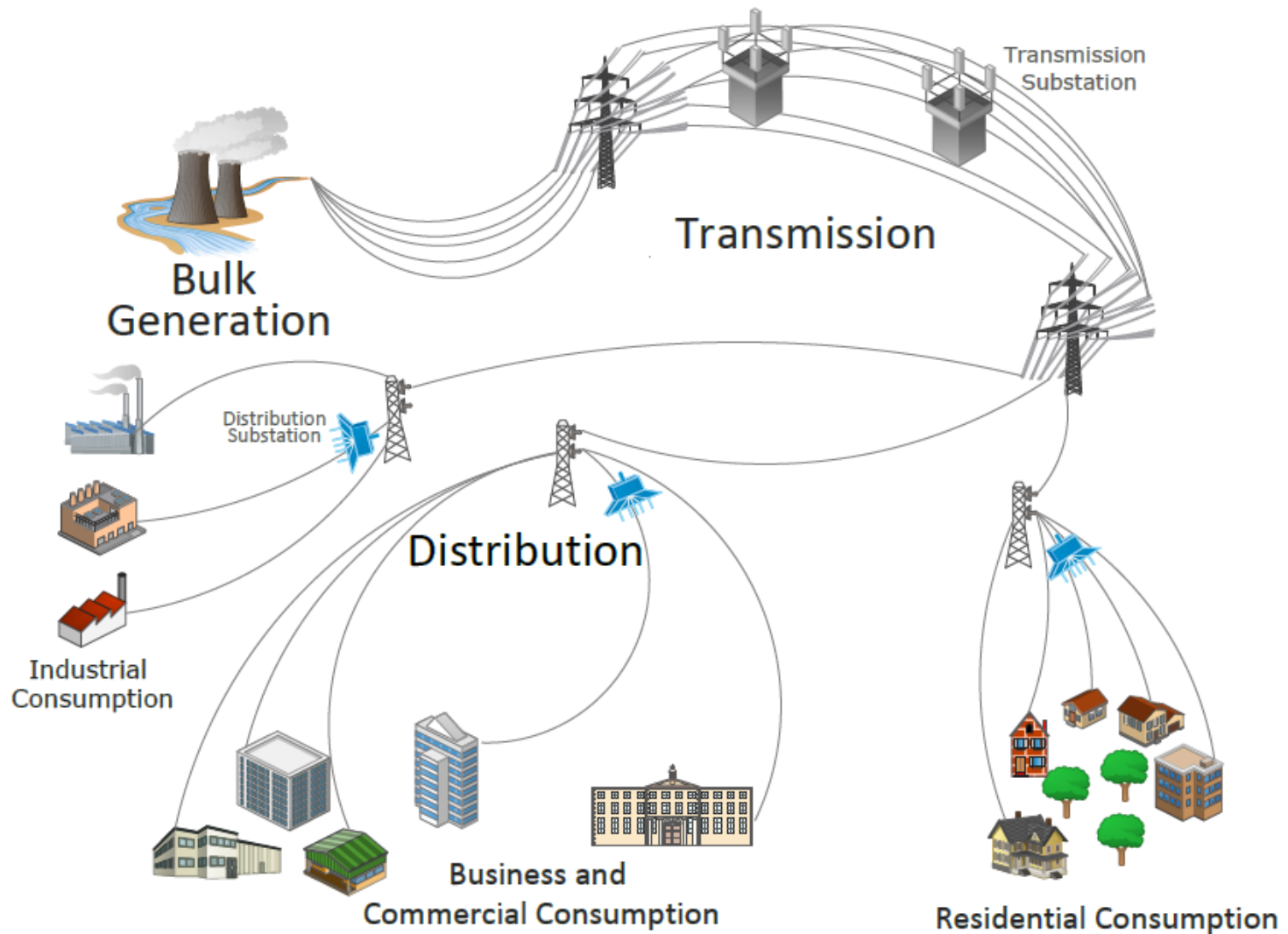
Department of Electrical and Computer Engineering

# Power Systems - General Overview



**Traditional electricity delivery system**

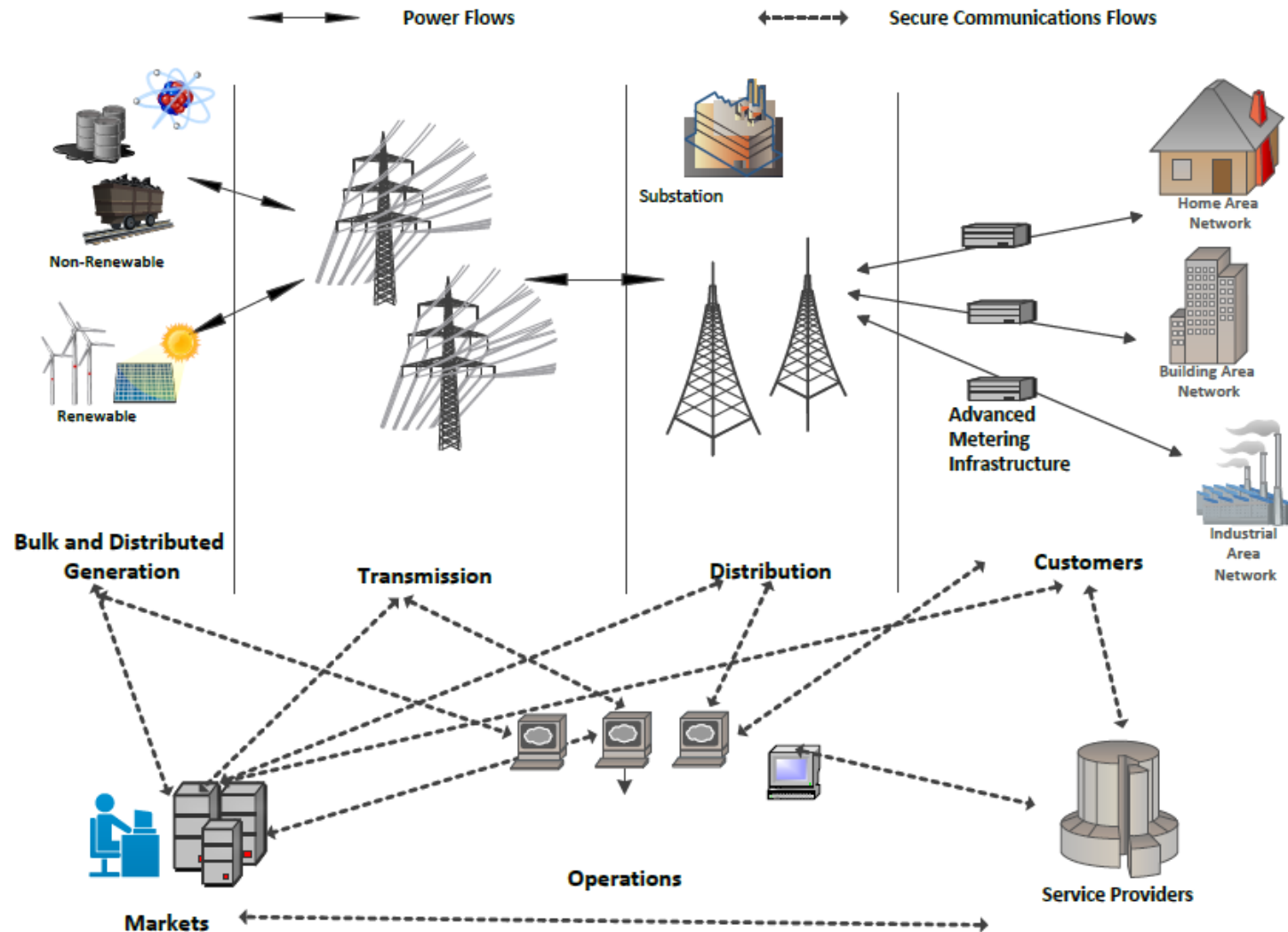
# Power Systems - General Overview



A high-level structure of the current power grid

Reference : [1]

# Smart Grids Technology - General Overview

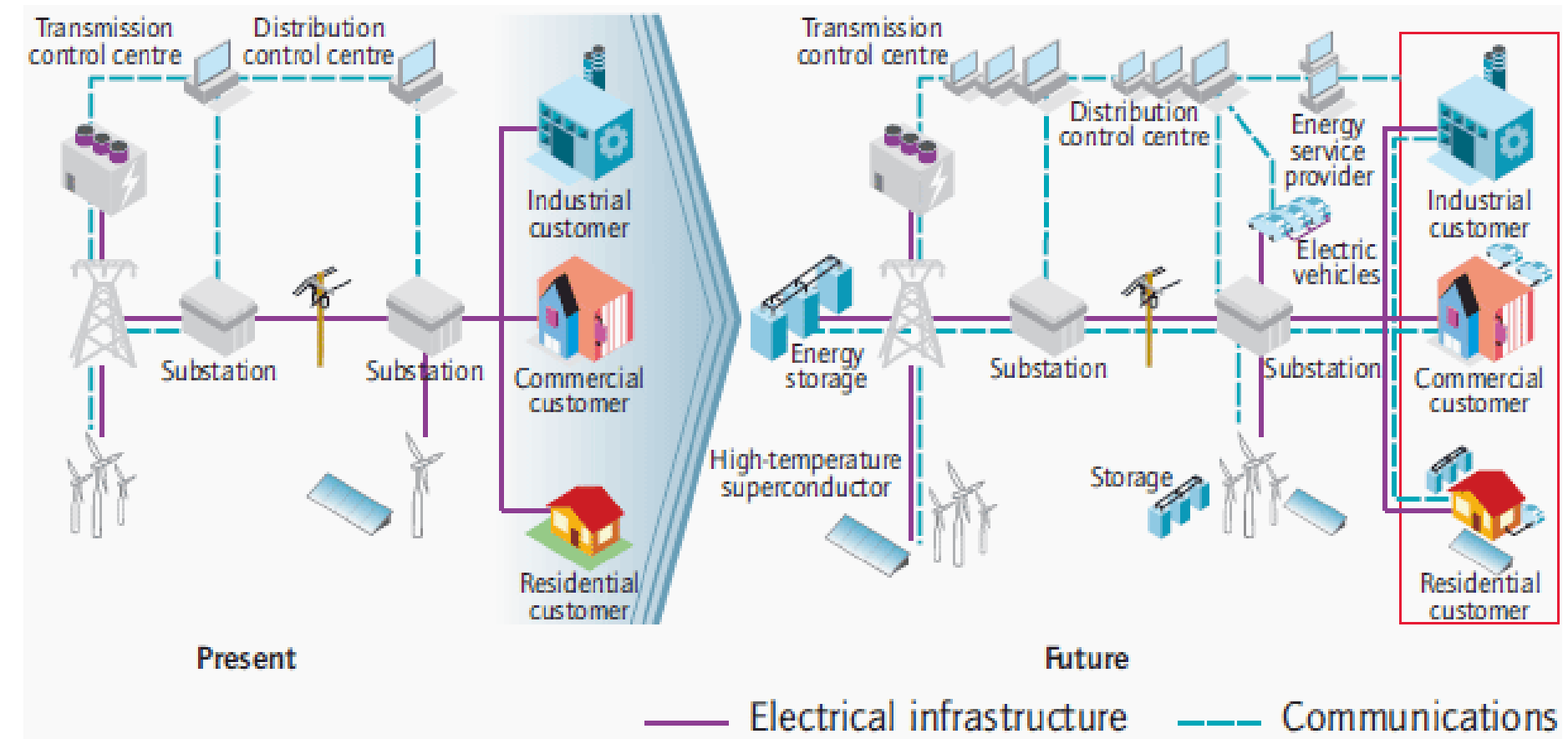


Smart Grid Conceptual Model

Reference : [1]

# Smart Grids Technology - General Overview

## From Conventional Grids to Smart Grids



Source: <https://electrical-engineering-portal.com/>

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## References

1. Book by: Hussein t. Mouftah and Melike Erol-Kantarci, "Smart Grid: Networking, Data Management, and Business, Models", CRC Press, 2016, Ch. 6: pp. 117-156.
2. Book by: Akin Tascikaraog˘lu and Ozan Erdinc, "Pathways to a Smarter Power System", Elsevier: Academic Press, 2019, Ch. 1: pp. 1-27.