

## Policies related to the energy internet



### Overview

This document provides an overview of all the relevant regulations and includes summary tables that represent both new and existing legislation and regulations, as of December 2024, represented in NEMS. Piyush Verma (United Nations Development Programme (UNDP) Sustainable Energy Hub, member of the Task Force on Digitalization in Energy of the United Nations Economic Commission for Europe (UNECE)) is the lead author of the chapter “Governance dynamics in the digital transformation of the energy. Rapid improvements in energy efficiency have, however, helped moderate growth in energy demand from data centres and data transmission networks, which each account for 1-1. Legislative and regulatory provisions that have been updated since AEO2023 are briefly described. The Office of Management and Budget (OMB) issued Memorandum M-21-07, Completing the Transition to Internet Protocol Version 6 (IPv6), November 19, 2020, to address this issue by communicating requirements and setting forth guidelines for the Federal government to transition to an IPv6-only. The EU policy promoting strategies for data, cloud and edge, and cybersecurity are central to the digitalisation of the energy system.

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This page describes the patchwork of federal, state, and local policies and regulations pertaining to renewable energy systems that impact project development.



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DOE Order 200.1A, Information Technology Management, was updated to include the Department of Energy's enterprise-wide policy on the IPv6 transition.



Viewing the digital transformation of the energy system through a governance lens is essential to navigate the emerging opportunities and challenges of an increasingly distributed energy market.



For a complete list of the CES policies modeled for AEO2025, see Table 1 in the Appendix. Since our last publication, several states have updated or developed new CES policies.



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As the world becomes increasingly digitalised, data centres and data transmission networks are emerging as an important source of energy demand.



The effective implementation of the Clean Energy Package, coupled with relevant actions proposed under the EU action plan for digitalising the energy system, paves the way for seamless data flow ...

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Website: <https://samastersbaseball.co.za>

Email: [sales@samastersbaseball.co.za](mailto:sales@samastersbaseball.co.za)

Phone: +27 63 874 2095

Address: 15 Innovation Drive, Technopark, Stellenbosch, 7600, South Africa

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