

Sustainability Infrastructure Connection of Rural to Urban

STRATEGY

CONSULTING

MANAGEMENT

ANALYSES

LAND sds provides analyses, research, strategy and business intelligence to enable structure, planning, processes, and solutions based on data. We structure and plan for our clients success. LAND sds is multidisciplinary, agile and solutions-based to deliver the best results. LAND sds is a project and process leader, providing business intelligence and development, and research and systems engineering to manage our clients growth, capacity, change and resources - producing efficiency, profitability and productivity for sustainability.

As the engagement of sustainability unfolds the development of sustainable cities is critical to the economy, resources and their management.

Sustainable states have a rural-urban nexus to draw in business, innovation and infrastructure to support the change in energy, resources and technology to the meet demand of its population.

In developing sustainability the opportunity to define the terms of "rural" and "urban" and their tangible value to their state's sustainability is a vital step to socioeconomic advancement.

The research "Sustainability Infrastructure Connection of Rural to Urban" identified key factors under a construct of applying sustainability in a macro lens. It was necessary to postulate theories in which states can operate identifying the current state of "ruralism" and the "urban core" under the construct of new technology, legislation and the future of energy.



"Sustainability Changes Economy"

Sustainable infrastructure is achieved through the interconnectivity of ruralization and urbanization to produce sustainability.

SUSTAINABILITY INFRASTRUCTURE

A state's infrastructure is connected by the identification of its city's ecosystems, environment, resources and technologies to support economic growth, socioeconomic development, educational gaps, social injustice and intelligences are required to produce sustainability.

As changes in technology, energy and resources are developed the need for cross development with the rural-urban nexus is relevant. Why? To manage the technological divide, smart grid connectivity, energy solutions, workforce requirements, waste, agriculture, bioenergy and devise the tooling to meet demand. Cities are in need of solutions that are within the nexus; therefore, the following are recommended:

- Define rural and urban centers
- Identify value and efficiencies for service solutions
- Institute a statewide sustainability plan
- Analyze energy demand and technology to determine business, workforce, education and resources required

ENERGY RELEVANCE

- U.S. Energy Information Administration expects energy consumption to increase steadily for the next 30 years.
- The need to modernize rural electric infrastructure for over 25 million rural residents and businesses with funding for more than 91,000 miles of electric line.
- Investment in renewable energy, smart grid technology and air quality improvement technologies.

CONNECTIONS TO RURAL & URBAN

The study reviews how the lack of connectivity between rural cities and urban centers causes instability and lower state performance. It highlights lack of synthesis in states that are in danger of economic downturns in part, but collectively the disconnect has an effect on new energy adoption, technological growth and global competitiveness, as well as the ability to manage changing energy and combat resource price fluctuation.

- ✓ Investment in rural development has fallen by nearly one-third since 2003. Action to reverse this decline is critical to creating and sustaining vibrant rural communities.
- ✓ Urban and Rural residents live in food deserts

SOME KEY INDICATORS

- Energy development and sources
- Fusion of renewable, oil and gas - Energy Mix
- Infrastructural grade
- Attraction of academics
- City/state bond rating
- Food accessibility and share
- New businesses developed in technology and energy

