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Decarbonizing Healthcare: Leveraging New Technologies for a Sustainable and Resilient Health Sector

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The healthcare sector is a significant contributor to global greenhouse gas emissions, making it important to adopt decarbonization

strategies. Transitioning to a low-carbon healthcare system is vital not only for reducing environmental impact but also for ensuring long-term sustainability and resilience in public health systems. New technologies give an innovative solution that can reduce emissions while maintaining high standards of care. Key decarbonization measures include the adoption of energy-efficient medical equipment, smart healthcare infrastructure, and renewable energy sources in healthcare. Telemedicine is another powerful tool, reducing the need for patient travel and the associated emissions from transportation, while increasing healthcare accessibility, especially in rural or underserved areas. AI-driven diagnostics and data analytics optimize healthcare delivery, reducing waste and improving resource efficiency. Hospitals and healthcare centers can further contribute to decarbonization by integrating solar power, green building technologies, and sustainable waste management practices. These innovations not only help reduce energy consumption but also improve

the overall environmental footprint of healthcare facilities. To drive widespread adoption of these technologies, policy frameworks and financial incentives must support sustainable healthcare practices. Governments, healthcare providers, and industry should collaborate to scale innovative technologies that foster a decarbonized, resilient healthcare system. By aligning healthcare with climate goals, the sector can play a leading role in mitigating climate change, improving sustainability, and ensuring better health outcomes for future generations. Incorporating new technologies into healthcare is key to achieving a sustainable health sector. The healthcare industry can reduce its environmental impact, improve operational efficiency, and build resilience against climate-related health risks

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