This study examines a redevelopment of a traditional post-industrial neighborhood located in the East Washington neighborhood in Indianapolis into a sustainable EcoDistrict. As local economies change as a result of exporting manufacturing jobs, neighborhoods that were once booming have fewer supportive resources and are plagued by blight, violence, and high-vacancy rates. Sustainable redevelopment strategies can result in positive social, economic, and environmental impacts for the local community, residents, and environment. Identifying the key problem issues for post-industrial rust belt neighborhoods will lead to the development of a framework to guide sustainable neighborhood planning and an understanding of how public-private partnerships and other strategies help redeveloping neighborhoods reach their sustainability goals.