
**Ecological Salvation Through Circular Economy in Kim Stanley Robinson's
"New York 2140"**

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Article Received: 11/01/2025

Article Accepted: 13/02/2025

Published Online: 14/02/2025

DOI:10.47311/IJOES.2025.7.02.119

Abstract:

The article exemplifies the miserable and unstable life of a flooded city in Kim Stanley Robinson's *New York 2140*. The purpose of this research is to expose the ecological redemption for the flooded city of New York through a futuristic vision in 2140. Circular economy and ecophenomenology theory have been utilized to extract the notions.

Keywords:Catastrophe, Eco phenomenology, Greenhouse gases, Circular economy, Hydro catastrophe, Capitalism, Industrialism, Ocean warming, Energy efficiency.

Introduction

The paramount importance of a metropolis is always contingent on its people, culture, geographic vitality, and economic stability. The reclamation of the wrecked city brings an obligation to rescue the expansion of exceptional civilization alive. In the framework, Environmental redemption could be brought up by exploring an intolerable hydro catastrophe in Kim Stanley Robinson's *New York 2140*.

Causation of Cataclysm:

The progressive industrialism and capitalism of the people in New York, accustomed to the fractionally drowned city in the year 2140, became the soul of the ecological crisis. Authoritative economist and their liquidities on Bourgeois citizens with acute neo-liberal capitalism caused the civilization to annihilate its own environment by preeminent ocean warming, which defrosted an immense iceberg of Antarctica. Defrosted glaciers culminated in a sea level elevation of 50 feet above the land surface. Robinson detects the billion tons of sulfur dioxide emanates like mimicking a volcanic eruption, and Carbon dioxide climbs from 280 to 450 parts per million within 300 years. The dispersion of toxic gases from nonrenewable energy sources trapped the heat in an atmosphere that was transferred to the Antarctic region through sweltered ocean currents. "*Antarctica sits at the bottom of the world*

like a big ice cake. A huge cake of ice. Melt all that ice and pour it in the ocean (though pour it yourself) and sea level would go 270 feet higher than old Holocene level” (Robinson 141). He concludes the novel without a sanative perspective but with the revival of the government.

Ecological Salvation:

In accordance with the research about the first assertion of eco phenomenology by Brown and Toadvine, *“an adequate account of our ecological situation requires the methods and insights of phenomenology”(xii).* Robinson believed in the concept of inaugurating de-carbonization and consumption of carbon-negative technologies. Bio-fuel carbon got dragged out of the air and was pulled down to the crust. The phenomenon is anticipated to be neutral and static, which could bring the globe to 280 parts per million of Carbon dioxide gases in the globe's atmosphere. *“How cool was that? Maybe it would return the world to 280 parts per million of CO2 in the atmosphere, maybe even start a little ice age;” (Robinson 381).* Despite Robinson's hesitation in proposing his notion due to its lavishness, he assures that ruling capitalists would not permit the scheme to be implemented. *“But so expensive. Economists could not help but be dubious. Because prices were always right, because the market was always right, right?” (Robinson 381)*

National measures:

The second claim of an eco-phenomenology is *“phenomenology, led by its own momentum, becomes a philosophical ecology, that is, a study of the interrelationship between organism and world” (Brown and Toadvine, xiii).* The Federal Government of U.S. became enormously resilient in economy after the devastation of downtown by hurricane in New York and being armed to refurbish the city with fresh outlets and designs has to be contrived.

In correspondence with the Circular Economy Principles: principles, benefits, and applications, *“The circular economy is underpinned by three core principles, commonly known as three R's: Reduce, Reuse, and recycle.”* The vindication is attainable if the government habituates the elicitation of energy from self-replenishing sources in New York. Locating solar plates accompanied by a terrace garden on each skyscraper would prompt the circulation of photosynthesis along with the synchronization of electricity. An occurrence may continue and will be renewed. The compensation of graphene composites over carbon nanotubes could diminish the utilization of carbon exhaling productions, and composites can be revitalized as graphene adsorbents to absorb dyes and heavy metal ions from water. NOAA of New York could inculcate electric ferries, wind-assisted cargo ships, and Ocean birds for sailing. U.S. Congress could levy taxes on high carbon screaming industries. Tons of oils from aqueducts of Brooklyn, Queens, and the South Bronx can be detached and shipped to adjacent countries through skimming, booms, and chemical dispersion for reprocessing. The author also portrayed the ravaged parts of New York, which can be replaced by skyvillage through the support of the downtown aristocrats that can expose employment offers for literate citizens of New York.

Universal Measures:

The author brings out in the novel that the indentation of universal schemes on the globe becomes mandatory for mankind, as consistent with Christopher Flavin: *“It remains to be seen whether global anxiety over climate change can be translated into effective policies to forestall the looming heat wave” (432).* He also depicts the necessity of

implementing energy efficiencies that would refrigerate the ocean's warmth. He believed that many organizations, like the United Nations Environment Programme (UNEP), could commence new practices through endowments of the World Bank and universal stakeholders. Establishing a carbon sink could abate 15% of CO₂ emissions in the world. Carbon sequestering can be achieved through the purification of soil, ocean, and forest. Ocean energy in Occident and Orient gulfs could align with an appropriate climate through the manipulation of the kinetic and thermal energy of water in the sea. Hydropower in rural water bodies could serve as sanitary energy to operate the carbon-free mechanism. Bioenergy in agro-climatic zones may have been undergone by Bio-Energy with carbon capture and storage (BECC) law, which extracts energy from biomass and then stores it underground. Geothermal energy in tropical regions would be in favor of the production of carbon dioxide, which will be 99% less in the atmosphere.

Conclusion:

Covetous capitalists and industrialists of New York became a spine for the drastic marine heat waves, which sparked the heightened hurricane to ruin the wealth of the environment in the novel. The necessity of redemption imposes the plans and measures that have to be commenced as national and international implementation with the help of the economy to preserve the remnant capital of the environment. Thus, environmental redemption becomes possible if the economy serves the ecology.

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Citation:

Saranya S &Sudarshan R "Ecological Salvation Through Circular Economy in Kim Stanley Robinson's "New York 2140"*International Journal of English and Studies (IJOES)*, vol. 7, no. 2, 2025, pp. 117-119. DOI: 10.47311/IJOES.2025.7.02.119.