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# Dancing On a Drying Climate: A Tale of Climate Change, Water, Food and The March of Deserts

# Climate Change and Sustainability

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## **Abstract**

West Asia, once the cradle of ancient civilisations, now finds itself in a climate conundrum running out of water, food, and patience. The region's rivers are shrinking, soils are sulking, and deserts are quietly expanding their real estate. This paper explores the intricate web of climate change, water insecurity, food scarcity, and desertification across West Asia, analysing how these interconnected challenges are reshaping human and physical geographies. It argues that India's evolving role in regional sustainability — through technology transfer, climate diplomacy, and shared innovation — can redefine cooperation in this fragile landscape. Drawing insights from UN reports, Water (MDPI) studies, and works by Rattan Lal and Mannava V.K. Sivakumar, the research combines science with sensibility, humour with humanity. The paper proposes geo-technological solutions such as solar desalination corridors, atmospheric water harvesters, bio-crust restoration, and hydro-blockchain governance — all wrapped in a spirit of regional friendship. Ultimately, it suggests that saving West Asia's climate isn't just about fixing the environment — it's about healing relationships between nations, nature, and people. After all, if deserts can dream of rain again, maybe diplomacy too can learn to flow a little smoother.

#### 1. Introduction

When earth sneezes and we catch a fever

When Asia often evokes images of sun-baked deserts, oil pipelines, and grand bazaars where carpets fly faster than logic. But look closer, and you shall find rivers wheezing like they just ran a marathon, crops trembling as if auditioning for a horror movie, and deserts sneaking forward like nosy neighbours, nibbling away at fertile land. Climate change is no longer a distant concern its basically moved in, taken up a corner office, and is micromanaging the political, economic, and social life of the region. India's historical, economic, and cultural engagement with West Asia dates back centuries-from ancient spices laden trade routes to modern energy deals and the diaspora enthusiastic remittances. To day, India resilience, and smart resource management. Imagine if West Asia's rivers and deserts had whatsapp: the rivers would send a breathless selfie with the caption. "SOS"! Thirsty and dramatic, " while the deserts would slide into india's chat like." Yo neighbours, mind sending some shade or a few trees? I am feeling aggressive today



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India now has the tricky but noble task of playing the responsible friend who actually shows up with water bottles, seeds and a plan.

## **Objectives of the Research**

This research aims to explore India's role in addressing climate change and promoting sustainability in West Asia, focusing on water security, food security, and desertification. It seeks to analyse the region's environmental vulnerabilities and identify opportunities for India to contribute throw technology transfer, policy cooperation, and knowledge sharing. The study also examines strategies for sustainable agriculture, water management, and land restoration, highlighting India's potential as a climate partner. Finally, it aims to humanised complex environmental issues, presenting solutions in a relatable, engaging manner that under scores both the urgency and the collaborative possibilities of regional climate action.

## Sources

UN Documents, Water(MDPI), Nature Communications, Climate Change and food security in West Asia and North Africa (Mannava v.k. sivakumar, Rattan Lal, Ramasamy sivaraju, Ibrahim Hamdan), Climate change, Land degradation, and sustainability(Rattan lal).

- Abbreviation
- MEA- Ministry of External Affairs
- UNDP- United Nations Development Program
- FAO- Food and Agriculture organisation
- UNEP-United Nations Environment Program
- MDPI- Multidisciplinary Digital Publishing Institute
- ICAR-Indian Council Of Agriculture Research
- UNESCWA United Nations Economic And Social Commission For Western Asia
- UNCCD- United Nations convention to combat desertification
- GCC Gulf Cooperation Council

#### Literature Review

- O UN Documents- According to UN-water (2023) West Asia is running on environmental trade mill-sweating hard but still thirsty, with cooperation being the only real hydration plan. The UNCCD (2022) gently warns that nearly half the regions land is turning into sand faster than policy meetings can end. Meanwhile, FAO and UNEP (2021) sigh that food security is wobbling as soils tire and rains ghost the farmers. Across these reports, one idea echoes loud and clear: India's climate-smart know-how could be the friendly neighbourly push West Asia needs to refill its ecological glass.
- Water (MDPI), (A well known academic publisher based in Switzerland) Studies in water (MDPI) reveal that West Asia rivers are tired, aquifers are overworked and rainfall has gone on a long vacation. Researchers like- Al-Ansari and Zawahri call the regions hydro-politics "thirsty triangle" of droughts and diplomacy. Recent papers cheers for tech heroes-desalination,



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drip irrigation, and data-driven farming-as the regions best strategy. The journal quietly hints that India, with it's water-smart innovations, could be the friendly neighbour offering the first refill.

 Nature Communications, Climate Change and food security in West Asia and North Africa ISBN-9789400767515

Publisher:Springer

- Sivakumar, lal, Ramasamy and Hamdan's climate change and food security in West Asia and North Africa reads like a climate reality check with a scientific conscience. They describe a region where soils sigh under heat, crops sweat for survival, and rainfall plays hide and seek with farmers. The authors warn that without immediate adaption, climate change could turn bread baskets into sand boxes. Yet they also serves hope on the same plate urging innovations in water use, soil care, and regional cooperation, where countries like India can help turn climate anxiety into agricultural resilience.
- Climate Change, Land degradation, and sustainability

Publisher: Springer ISBN-978-3032007032

• It feels like Earth personal diary-full of confessions about lost soil, rising heat, and human mischief.

He writes that land is tired of being overworked, under paid, and frequently eroded-basically, it needs a vacation and better management. Lal reminds us that ignoring soil health is like skipping breakfast and wondering why we are dizzy by noon. His hopeful note? With smart farming, organic love, and a bit of global team work (India Included), even the planets most exhausted lands can bounce back with a smile-and may be a crop or two.

## Geography and climate vulnerability

West Asia is a land of contrasts-lush Mediterranean coast lines rubbing shoulders with scorching hyperarid deserts. Countries like Saudi Arabia, UAE, and Oman are basically in a permanent sauna with a water shortage, while nations like Iraq, Syria, and Lebanon play a high-stakes games of " who gets the river first" since there rivers often start life outside there borders.

Climate change is not helping. Its basically turned the region into a demanding roommate, bringing along .

- o Water security: A less rain, overworked ground water, and endless arguments over shared rivers.
- o Food Insecurity: crops are throwing tantrums over unpredictable rainfall and salty soils, while reliance on imports leaves countries at the mercy of global prices.
- o Desertification: Fertile land is slowly being eaten up, one sneaky sand dune at a time.

Some numbers that tell the story better than words alone:

• The FAO reports that about 40% of west Asia's land is degraded, with deserts inching forward like they own the place.



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- Over 60% of people in arid west asian countries face severe water stress, which is basically like living in a world where your shower only runs for 30 seconds
- Food imports cover up to half of the calories consumed in gulf countries, making the region highly sensitive to price spikes on the global market

India's engagement with west Asia is multi dimensional

- Economic: India imports crude oil, gas, and engages in trade of textiles, pharmaceuticals, and food products.
- o Cultural: A large Indian-diaspora contributes to remittances and cultural exchange.
- o Diplomatic: India has consistently played a mediating role in regional conflicts and dialogues.

This foundation allows India to extend its influence into climate diplomacy-helping west Asia address pressing sustainability challenges while enhancing its strategic foot print.

Water scarcity is arguably the most pressing environmental issue in west Asia-key challenges include:

- o Over-reliance on shared reviews like Tigris, Euphrates, and Jordan.
- o Ground water depletion from agriculture and urban demand.
- Climate-induced droughts and heat waves.

Ground water in Saudi Arabia is falling by 1-2 meters annually in key aquifers. The per capita water availability in countries like Jordan is less than 150m cube per year, far below the international water scarcity threshold of 1000m cube per year. India, with its diverse water management experience and a track record of agricultural innovation, is uniquely positioned to offer meaningful support to west Asia in this crisis. While India can not magically conjure rivers in Saudi Arabia or rain over Jordan, it can contribute through technological solutions, knowledge sharing, and diplomacy.

## • Technological Solutions

Efficient irrigation techniques like drip irrigation, micro irrigation, and precision agriculture have revolutionised water use non India. By helping west Asian countries adopt similar systems, every litre of water can be put to maximum use. India has pioneered cost-effective water recycling and desalination methods, which can reduce reliance on shrinking fresh water resources and make urban and industrial water supply more sustainable. Think of it as a "tech buffet for the planets" -where gadgets, microbes, and maps team up to rescue a very sweaty desert.

Each idea is like a superhero:

- o Solar desalination is equal to the water whisperer
- o Hydro-blockchain is equal to the diplomat of drops
- o Bio-crusts is equal to the deserts skin care routine
- Al-irrigation is equal to the plant psychologist

Its science with a smile-serious innovation, served humorously.



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India, drawing upon its extensive experience in integrated water resource management and a well established record of agricultural innovation, is strategically positioned to contribute to addressing west Asia's escalating water challenges. Ai though geographical and climatic realities preclude india from directly augmenting the region's natural water endowment, the nations scientific expertise, institutional experience, and policy frame works present valuable opportunities for collaborative intervention (sivakumar et al. 2022). India's advancements in drip irrigation, micro irrigation systems, desalination technologies, and waste water recycling offer replicable models for water-scare environments (Kumar Singh, 2021).

Furthermore, India's evolution in basin-level water governance-notably through mechanism like the national water mission-demonstrates the potential of adaptive management strategies in reconciling agricultural, industrial, and urban water demands.

By extending these innovations through south-south cooperation and regional partnership, India can play a pivotal role as a knowledge and technology partner, adding west Asia in building resilience against climate-induced water stress.

## The emerging food challenge

Food security in West Asia is increasingly pre carious due to a confluence of a climatic, environmental, and socio-economic pressures. The regions arid climate, water scarcity, and heavy dependence on imports render it highly vulnerable to global supply disruptions and domestic production constraints. Such as Saudi Arabia, the UAE, and Kuwait import between 80-90% of there stable food grains, exposing them to volatility in global food prices (World Bank, 2022). Meanwhile nations like Iraq and Syria, historically agricultural heartlands, face declining yields due to soil salinity, water, mismanagement, and climate introduced droughts.

Recent climatic variability has further aggravated this fragility. Erratic rainfall, extreme heat, and land degradation have reduced agricultural productivity and increased food insecurity, particularly among rural populations. (Sivakumar et al. 2022). The intersection of rapid urbanisation, population growth, and limited arable land. Compounds the pressure, creating a delicate balance between consumption and production. In simple terms, the regions dinner table depends as much on diplomacy and logistics as it does on rainfall and soil. If crops in west Asia would talk, they'd probably sigh, "we are doing our best, but the weather does not seem to be on speaking turns with us any more". India, with its diverse agro ecological zones and century long experience in food self-sufficiency, offers an instructive model for addressing the regions food challenges having transformed from a food deficient nation in the 1960s to one of the world's leading agricultural producers today, India's green revolution, crop diversification policies, and water efficient farming systems. Provide replicable lessons for sustainable food production (Lal et al. 2021).

• India's research on drought-tolerant millets, pulses and oilseeds-adapted for semi-arid conditions-aligns closely with the climatic realities of West Asia (ICAR,2022).

India's advancements in precision irrigation, and sensor based moisture monitoring can enhance agricultural efficiency and conserve limited water resources. Lessons from India's integrated nutrient management programs can sup[port soil health restoration in degraded lands across West Asia. India's agricultural trade partnerships with the Gulf Cooperation Council (GCC) countries already constitute a



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major share of bilateral economic relations. Long-term grain supply agreements and the establishment of joint food storage facilities could help stabilise regional food availability and buffer against global price shocks (Kumar & Sharma, 2023).

Moreover public-private partnerships between Indian agri-tech startups and West Asian government could facilitate the diffusion of low cost, scalable agricultural technologies. In this equation, India doesn't play the role of a "food donor" but rather that of an "agricultural ally"-the friendly scientist next door sharing tools, seeds, and know-how to make farming in the desert a little less of a gamble.

India's evolution in food security policy-balancing productivity with sustainability-provides an adaptable frameworks for West Asia. The transition from high-input, resource-intensive farming to climate smart agriculture demonstrates how food systems can evolve under pressure.

#### A desert on the move

In west Asia, deserts don't just sit quietly-they travel. Slowly, steadily, and stubbornly, grains of sand march into lands that once grew wheat, barley, and hope. The problem isn't just "too much sand" its that the sand seems to have a gym membership- its getting stronger every year. Once upon a time, the fertile crescent-modern-day Iraq and Syria was called the "cradle of civilisation"

Now it sometimes feels more like the "cradle of dehydration". Temperatures are rising, rainfall is shy, and soils seems to have signed the resignation letter saying "I'm tired of holding crops. according to the FAO (2023), around 40% of West Asia's land is already degraded, and the line between desert and farm land is blurrier than a mirage on a summer afternoon. Every year West Asia loses over 1% of arable land, which means more food stress, more migration, and fewer reasons for farmers to smile. If we call the desert a detective story, the culprits are all repeat offenders. The temperature in West Asia is rising twice as fast as the global average. Droughts now arrive like uninvited guests and overstay their welcome. The rain meanwhile, has commitment issues-it shows up late, leaves early and never answers call.

Too much irrigation, too little planning blah blah. Overuse of groundwater has made some soils saltier than potato chips, and the overgrazing has turned grasslands into bald patches. Livestock nibble on every green thing insight, and people chop trees for fuel or construction. The land, stripped of protection, just gives up and turns to dust. Weak policies and poor coordination mean that by the time governments react, the dunes have already moved in and are unpacking their luggage. If sand dunes had passports, they'd have stamps from half the region by now. The borders are human inventions, sand clearly didn't get the memo.

## India's role: From thar desert to Thought Leadership

Now here comes India-no stranger to dry drama itself. From the blazing Thar Desert in Rajasthan to the semi-arid zones of Gujarat and Telangana, India has spent decades of learning how to make peace with sand. And not just peace-it turned some deserts into productive land again. India and west Asia share comparable arif climatic conditions, facing common challenges of water scarcity, food insecurity, and desertification (UNCCD,2022). The Thar desert has provided India with valuable experience in adaptive dry land management and community based water governance (Government of India, 2020). West Asian nations, despite technological advancement, experience critical pressure on freshwater and agricultural sustainability (FAO, 2021). The mutual economic interdependence- West Asia's energy and India's agri trade-can evolve into integrated sustainability frameworks (UNESCWA, 2021). Consequently, India's



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transition from desert resilience to climate diplomacy exemplifies the region's move from adaptation to leadership (IPCC, 2023). There was a time when any discussion on West Asia began with oil and often ended with it. But in the era of climate change, even oil rich kingdoms have started glancing nervously at their thermometers. The sands are hotter, the seas are saltier, and the air conditioners are working overtime. As the united nation development programme (2023) reports, West Asia is warming at nearly twice the global average-an unfortunate honour nobody wants. Enter India, the long time energy partner and increasingly, a climate ally. What connects the bustling streets of Mumbai to the glimmering skylines of Dubai, is no longer just oil tankers and remittances-it's a shared sense of ecological urgency. The very desert that once powered India's engines is now looking to India for ideas on solar energy Water management and sustainable urban design. As the world jokes about "phasing down" carbon ,West Asia and India are quietly learning to phase up cooperation. Geographically, West Asia is that critical stretch of land where continents meet the politics rarely take a vacation. Historically ,it has been the heart of civilisation and the heart burn of global diplomacy. Every major power has had its moment of fascinationand frustration with this region. For India, West Asia is not just a neighbour: it is an extended neighbourhood (MEA, 2024). Nearly 9 million Indians live and work across the Gulf, sending back billions in remittances-essentially, climate-proofing India's Foreign reserves. Any shift in the region's environmental or political temperature, therefore, has an immediate impact on India's domestic stability. In simple terms, when the Gulf catches a heat -wave -India feels it-economically, climatically and diplomatically. Climate change has an unusual sense of humour. It doesn't care for borders, GDP rankings, or diplomatic titles. It treats a sheikh in Riyadh and a farmer in Rajasthan with equal disregard. Rising sea levels and falling water tables are now the common language of crisis. For India, engaging with West Asia on climate issues is not just good will diplomacy- its strategic survival. Shared solar investments, green hydrogen projects, and desalination research are no longer optional: they are existential. The India -UAE green hydrogen partnership (IRENA,2024), international renewable Energy Agency and the internal solar alliance, Co-founded by India, are transforming energy diplomacy into environmental partnership. The cooperation is no longer about trading black gold: it's about generating green power. The study blends geo-politics with green politics- two fields that often look at each other suspiciously.

The framework combines:

- Energy Security Theory, because India still needs oil while dreaming of Solar supremacy.
- Political Ecology, to understand how environmental stress, reshapes diplomacy; and
- Complex Interdependence Theory, since modern foreign relations are less about conflict and more about coordinated survival.

In other words, this isn't about tanks or treaties- It's about temperatures. Few regions have been more photographed, fought over, and philosophically debated than West Asia. Stretching from the Mediterranean shores to the Persian Gulf, it has been the meeting point of prophets, pirates, petroleum, and now, photovoltaic panels. Historically, West Asia was the cradle of Civilisation, the birthplace of algebra and astronomy, and the original host of trade globalisation long before "globalisation" became an academic buzzword. Babylon had bazaars before wall street had brokers. Mesopotamia mastered irrigation when much of the world still played for rain.

Today, however, the same geography that once granted West Asia abundance has turned into a vulnerability.it's desert are expanding, coastline are shrinking, and water tables are declining faster than



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diplomatic patience during OPEC negotiations. The United Nations Developments programme (UNDP, 2023) warns that the regions average temperature could rise by upto 4 degrees celsius by 2050, posing existential challenges for agriculture, migration, and urban living. In short West Asia stands at the cross roads-not just of continents, but of climate destiny. The modern political story of West Asia has more twists than a bedouin caravan trail. After centuries of empire, colonisation, and cold war chess, the discovery of oil in the early twentieth century turned barren stands into bargaining chips. The "black gold rush" redefined the regions global status-and many ways, it's fate. Oil gave the Gulf nations wealth beyond measure, but it also made them dependent on an exhaustible resource and a volatile market. For decades, their prosperity was powered by hydrocarbon and foreign labour-including millions of Indian's who helped construct the infrastructure of modern Arabia. The 1973 oil crisis further amplified West Asia's political voice, making OPEC the de facto weather vane of global economics. Yet, as climate change now dethrones oil from it's pedestal, the same states are forced to engineer a new identity-one that runs not on crude oil, But on clean energy. As the World Bank (2023) aptly puts it, "West Asia is transforming from a fuel exporter to a resilience laboratory.

## India and West Asia: An ancient connection and Modern Chemistry

India's relationship with West Asia is as old as it's spice routes and as contemporary as it's digital diplomacy. The Indo-Arab trade dates back over 4000 years, when Indian cotton and spices found there way to Mesopotamian markets and returned as copper, pearls, and ideas. Fast forward to the present:this exchange continues, albeit with updated goods and newer packaging. Instead of frankincense and silk, the trade manifests in crude oil, remittances, information technology, and now, sustainability partnerships. India imports over 60% of it's crude oil from the region (Ministry of Petroleum and Natural Gas, 2024). The Gulf Cooperation Council (GCC) as a bloc has become India's largest training partner, with bilateral trade crossing 154 billion in 2024 (MEA, 2024).

## **Conclusion and Solutions**

After wandering through deserts, tracing dry river beds, and interviewing grumpy sand dunes, one thing becomes clear-West Asia is not just facing climate change: it's having a full-blown environmental identity crisis. The rivers are sulking, the soils are shading, and the clouds are ghosting the region altogether. But geography teaches us that even the harshest land scapes can change course-if guided wisely.

Turning sunlight into sweet Water

Lets starts by asking the obvious:if there's too much sun and not enough water, why not make the two fall in love? Solar desalination corridors could line the Arabian Coast powered by that same sun that's been roasting the region for centuries. With India's experience in solar mapping and coastal planning, these systems could literally turn heat into hydration- geography's version of poetic justice.



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## Farming the Air

When rivers refuse to cooperate, the atmosphere might lend a hand. Atmospheric water harvesters-those magical machines that squeeze moisture out of thin air-could become the new "rainmakers". Think of them as sky straws, sipping clouds politely without offending meteorologists. India's experiment's in Rajasthan show this is not fantasy-it's just very polite science.

## Desert Diet Plan

Deserts have been over eating farmland for decades. The solution? A bio crust smoothie made of micro algae and cyanobacteria spread across sandy surfaces, they stabilise dunes and restore nutrients. Picture the desert getting a green facial treatment-refreshing and rejuvenating.

## The Block chain Peace Treaty

To prevent "Water fights". I proposed hydro-block chain. It's like google maps for rivers-ever drop tracked, no secrets, no stealing. When the Tigris complains, "Hey, who took my flow?" Everyone can check the app.

In the end, West Asia doesn't need a miracle-it needs a makeover. Geography tells us the land-remembers; it just needs to be reminded that cooperation, technology, and humour can rewrite it's fate. With India as both mentor and mischief-maker, maybe even the deserts will one day tweet, "feeling hydrated and hopeful again." And finally-the geography punch line West Asia doesn't need another conference; it needs a climate makeover show. Deserts on detox, rivers in rehab, clouds on contract, and India as the slightly over-enthusiastic friend saying, "don't worry bro, I brought solar panels and snacks!" Maybe one day the dunes will post a selfie captioned- day 45 of rehydration: feeling moist, manifesting monsoon vibes."

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