



Adaptation to Climate Change in Israel

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המשרד להגנת הסביבה

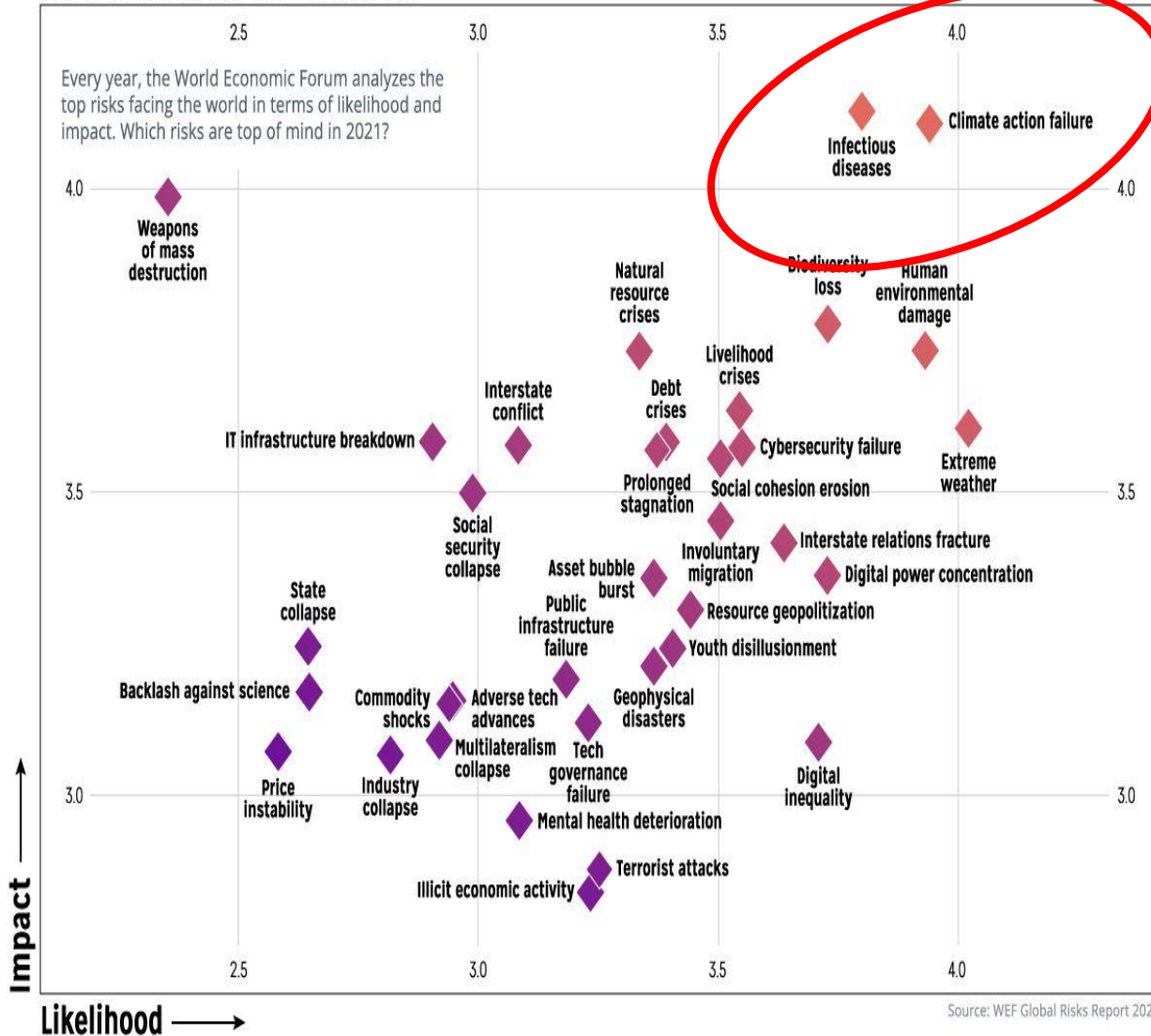


الوزارة لحماية البيئة
Israel Ministry of Environmental Protection

Climate risks

2021 Global Risks Outlook

Every year, the World Economic Forum analyzes the top risks facing the world in terms of likelihood and impact. Which risks are top of mind in 2021?



Source: WEF Global Risks Report 2021

Top 10 Global Risks by Severity

Over the next 10 years



1st Climate action failure

2nd Extreme weather

3rd Biodiversity loss

4th Social cohesion erosion

5th Livelihood crises

6th Infectious diseases

7th Human environmental damage

8th Natural resource crises

9th Debt crises

10th Geoeconomic confrontation

■ Economic
 ■ Environmental
 ■ Geopolitical
 ■ Societal
 ■ Technological
 <https://www.weforum.org/reports/global-risks-2021>

Climate Trends in Israel



Extreme

More extreme weather events: heatwaves, storms, downfalls



Higher

0.5 cm rise in sea level annually



Drier

15-25% decrease in freshwater reserves by 2100



Hotter

4-6 Degrees Celsius by 2100

Israel is warming up

Home | Israel News

Heat Wave Scorches Israel – but the Real Sizzle Is Yet to Come

Temperatures are expected to reach 114 F on Friday, Israel's Meteorological Service says, promising a relief on Sunday

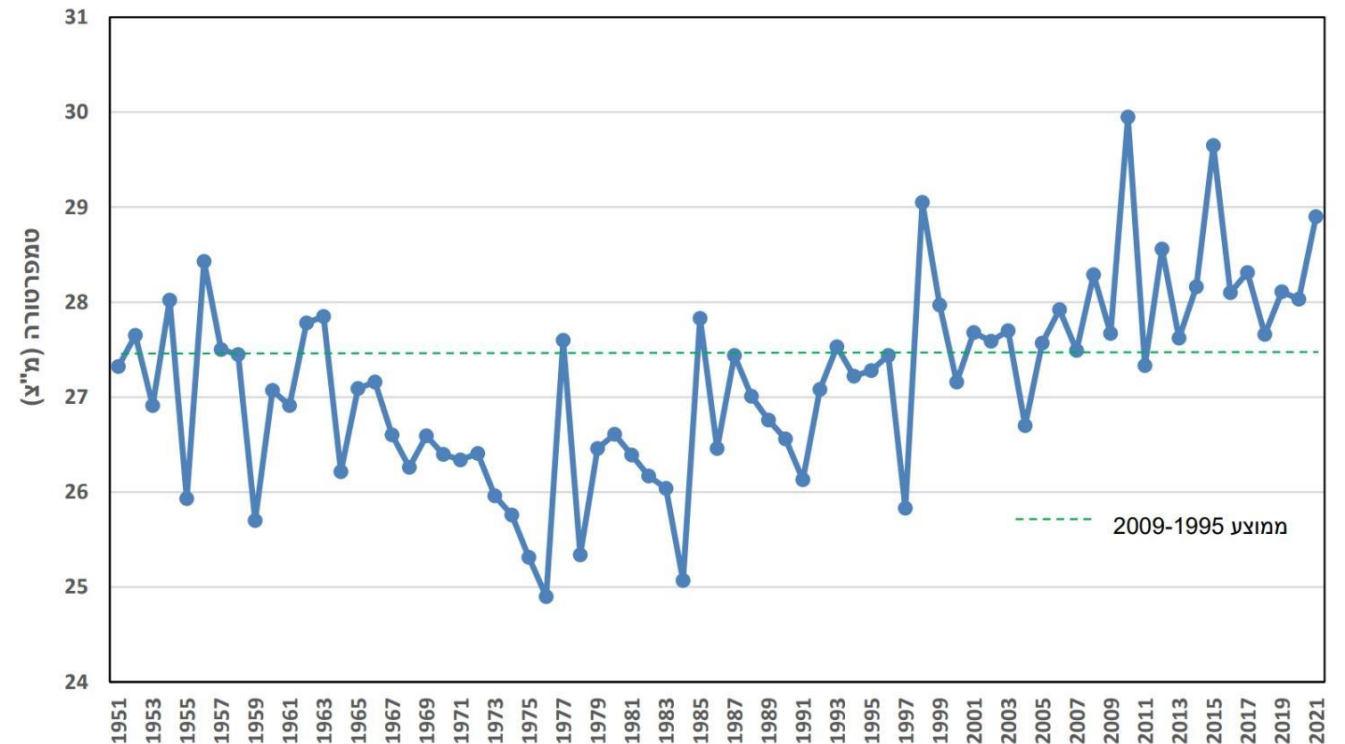


Save Zen Read



Firefighters working to quell a wildfire near Jerusalem, August 4, 2021 Credit: Ohad Zwigenberg

איור 3: הטמפרטורה הממוצעת בישראל* באוגוסט 1951 עד 2021



* כדי לייצג את שטח ישראל נבחרו חמש תחנות מאפיינות שיש להן נתונים משנת 1951. המגמה של הממוצעים בתחנות אלו דומה למגמת הממוצעים במדגם גדול ומגוון יותר של תחנות.

Government Decision

Israel Government Decision No. 4079 for Adaptation to Climate Change and for developing a national action plan for Adaptation to Climate change - 2018

Vision

Israel will be highly prepared for the impacts of a changing climate by implementing action plans and policy measures that will reduce health, environmental and economic risks and build on opportunities and potential benefits associated with climate change.

The State of Israel will act to achieve the following five main goals:

1. Reducing human and property damage and building economic resilience.
2. Taking measures to increase the resilience of natural ecosystems.
3. Building and updating the scientific knowledge to improve decision making processes.
4. Education, raising public awareness and making knowledge accessible to decision-makers and the public.
5. Integrating Israel's actions into the global effort in accordance with its commitments and the promotion of regional and international cooperation.

Government Administration

- 35 Government Offices and Organizations
- Ministry of Environmental Protection - Chair
- 7 Sub committees
- Preparation of National Adaptation Action Plan and Budget
- Engagement of all Government Ministries and implementation on adaptation plans

Responsibilities, implementation and actions

1. Developing and monitoring the implementation of the national adaptation strategy
2. Implementation of adaptation to climate change in existing national action plans
3. Mainstreaming the need for preparedness for climate change in government programs
4. Coordination and consultation between government ministries, public authorities, public
5. Submission of an annual progress report to the government and publication to the public
6. Promoting new policy initiatives on adaptation to climate change
7. Promoting research on Adaptation to Climate change
8. Promoting international cooperation

Israel's Adaptation climate Change report

1st Report

Submitted to the Government of Israel by
the Climate Change Adaptation Administration
as part of the implementation of Government Resolution No. 4079
on Israel's Adaptation to Climate Change



Recognition of the climate crisis as a national strategic threat;

Preparedness of local government for climate change needed;

Macro-economic assessment of impacts of climate change and assessment of risks to Israel's economy;

Assimilation of inclusion of climate change deployment implementation plans in government ministries;

Budget and tools required for the management of the climate change Administration

Raising awareness, education and assimilation in local government, the private sector and the public at large

Updating of knowledge bases and research

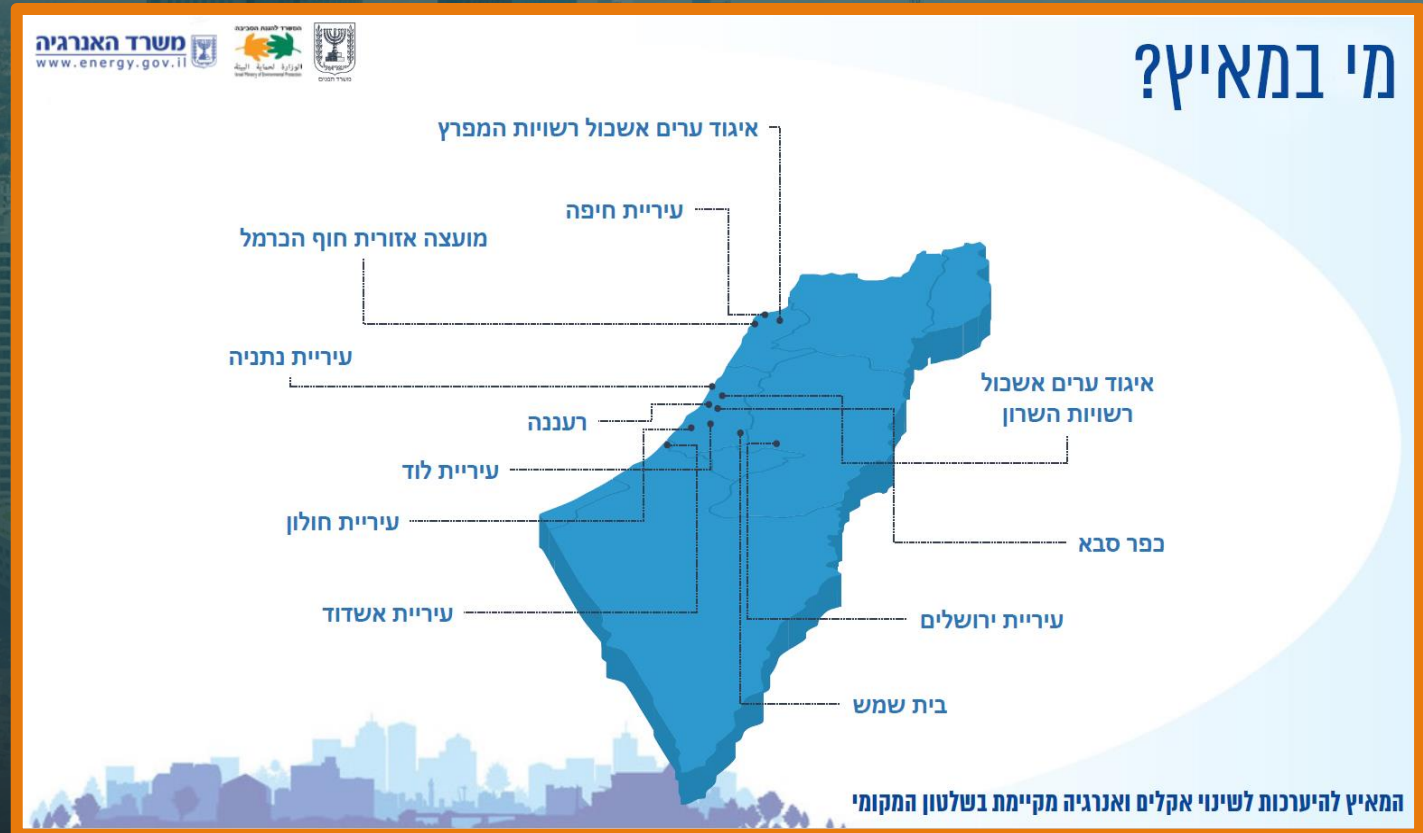
NIS 2.5 billion for implementation of short term projects

Some Products

CC Heat Map



The Urban Accelerator



Roadmap to Glasgow

Government Decisions for Mitigation

National Plan - 15 Billion NIS

Comptroller Report - Israel is not ready for CC

National Plans in Ministries and Municipalities

Drafting Climate Change Law

Climate Change is declared a National Security Threat to security

Israel joins 30 by 30 biodiversity coalitions - HAC, GOA

Government Decision for rehabilitation of Judean Hills fire

תכניות יישום לאומית
להתמודדות עם
משבר האקלים
2026-2022



After Glasgow

Climate Change and Biodiversity Loss are linked

Investments needed in Nature Based Solutions and Adaptation

Local Authorities will pay a crucial, leading role in Adaptation

Adaptation Goals need to be developed

Climate Change law will include Adaptation

National Climate Change Risk map being developed

Gov. Decision for Urban Cooling (tree planting)

Government Decision for Preventing forest Fires

Preparing For COP27

Summery

- Climate change impacts have been going on for several decades now
- According to the latest IPCC report, our region will be impacted more by CC
- The State of Israel, must implement and execute adaptation plans in the immediate term, and prepare the infrastructure required for the expected long term trends;
- Continued policy of inaction in this area should lead to very high investments required as a result of climate change impacts;
- International cooperation is essential;
- Implementation shall bring Israel to a much better state of preparedness

An aerial view of a city skyline, featuring a prominent skyscraper with a cylindrical top. The image is overlaid with a semi-transparent dark blue filter. A horizontal bar with a color gradient from cyan to yellow is positioned below the text.

Thank You