

Israel – Strategic Player in Global Water Solutions

Parliamentary Cooperation on WATER

MK Dr. Nachman Shai

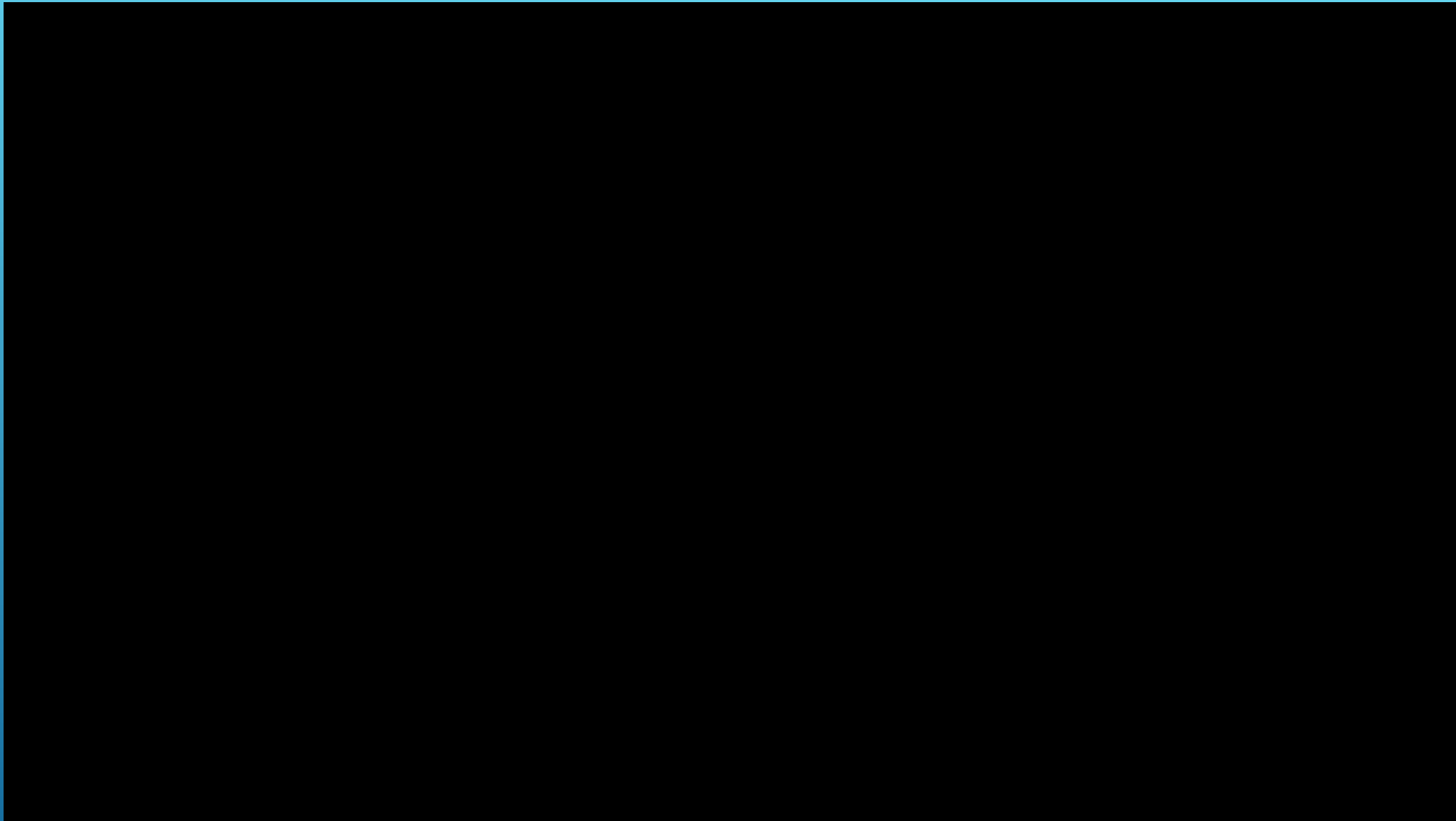


Israel's Integrated Approach

- Centralizing water planning + strategy for improving efficiency
- Real water pricing
- Appointing regulators
- Educating citizens to conserve water
- Desalinating seawater
- Using advanced technologies (e.g., drip irrigation)
- Treating and recycling sewage

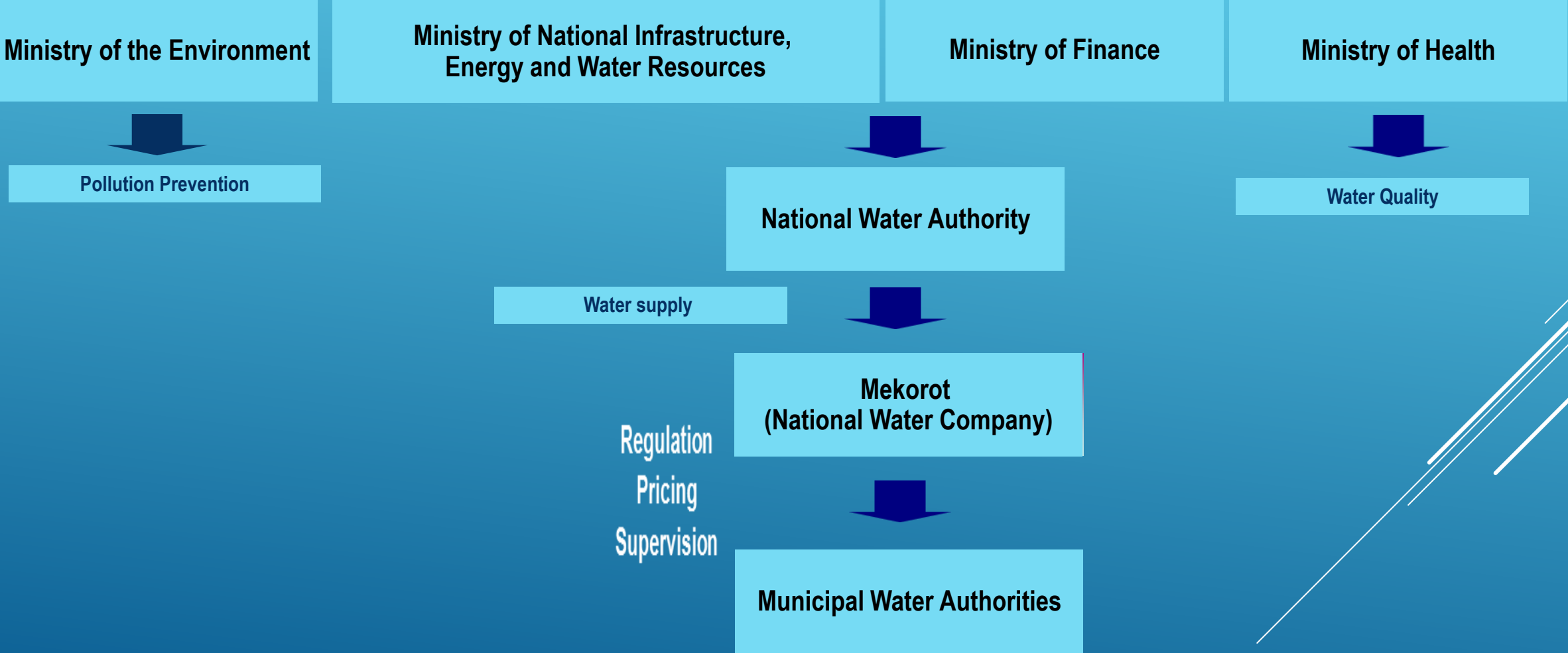


Shlomo Blass : Inventor
of drip irrigation (1956)



[HTTPS://YOUTU.BE/2TNKKBRM7QS](https://youtu.be/2TNKKBRM7QS)

Centralized water planning



Water Pricing and Legislation

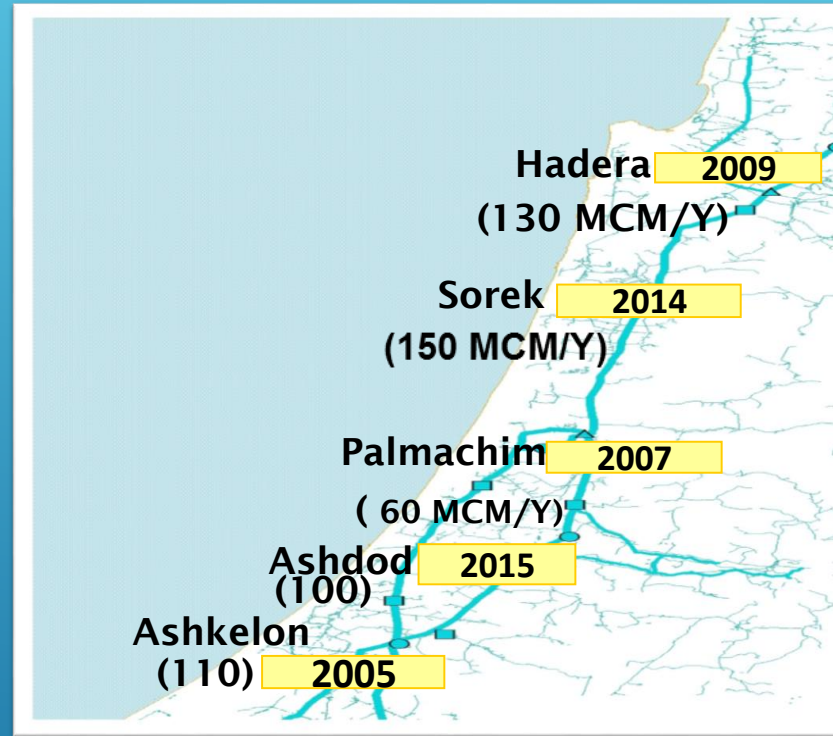
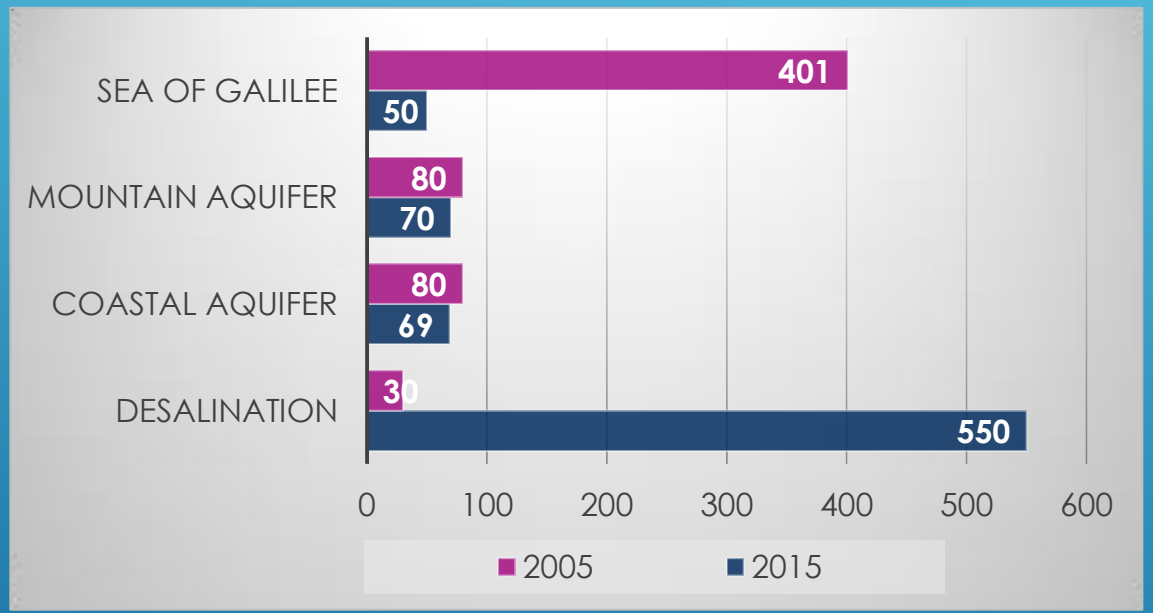
Two key laws: Water Law – 1959 (amended 2006) & Water and Sewerage Corporations Law – 2001

- 2006 amendment to Water Law created Governmental Authority for Water and Sewerage ("Water Authority")
- Inter-agency body: Ministries of Finance, Energy and Water, Environmental Protection, and Interior.
- Water tariffs are levied for all uses and at all stages of production.
 - Financed by self-financing, commercial debt, and subsidies.
- Domestic water rates charged by local authorities set by the Water Authority.
 - Progressive (increasing-block) rates
- Mekorot rates set by the Water Authority, approved by the Knesset's Finance Committee, and updated from time to time.
 - Categorized by use: domestic consumption and services, industry, and agriculture

Desalination

Desalination plants supply 70% of household water consumption

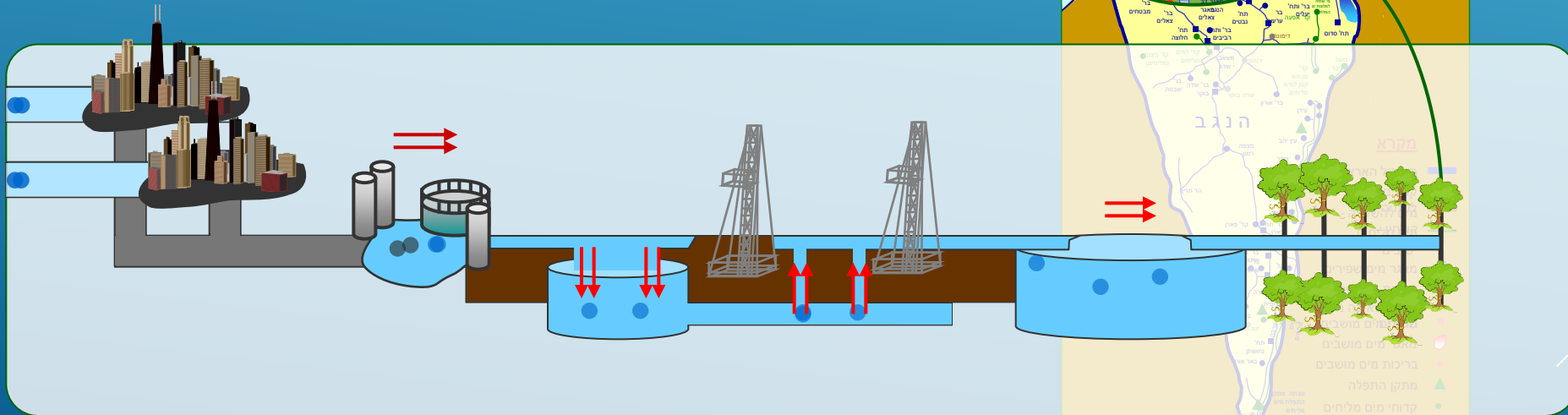
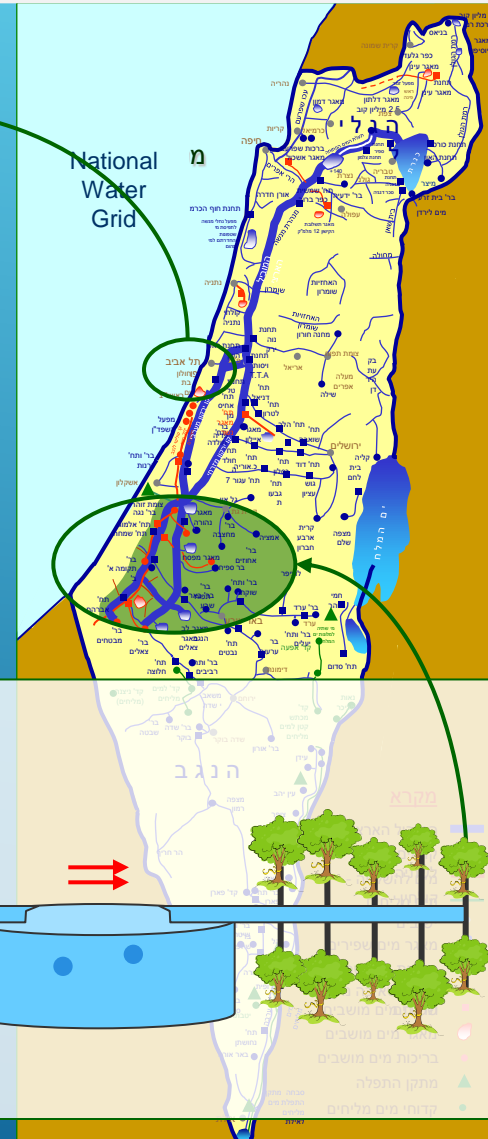
Sources of Israel's Water Supply (MCM/Y)



Sewage Treatment

Wastewater Treatment Plant (Shafdan) and the Pipeline to the Negev

- Sewage from the Greater Tel Aviv area – 125 MCM/Y
- 90km pipeline to Negev
- 32 pumping stations, operational storages and seasonal storages
- Final product used for Negev agriculture



Strategic planning

National Master Plan for improving water consumption and efficiency for years 2010 – 2050.



“A revolution has taken place here. A major national effort to desalinate Mediterranean seawater and to recycle wastewater has provided the country with enough water for all its needs, even during severe droughts. More than 50 percent of the water for Israeli households, agriculture and industry is now artificially produced.”

—New York Times, 29 May 2015

Innovation Showcase – AIPAC

<https://www.youtube.com/watch?v=f7-RSzKkT1s>



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<http://watec-israel.com/>

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