Parliamentary Cooperation on WATER

Israel – Strategic Player in Global Water Solutions

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
Centralized water planning

Ministry of the Environment
- Pollution Prevention

Ministry of National Infrastructure, Energy and Water Resources
- Water supply

Ministry of Finance

Ministry of Health
- Water Quality

National Water Authority
- Regulation
- Pricing
- Supervision

Mekorot (National Water Company)

Municipal Water Authorities
Water Pricing and Legislation


- 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 plants supply 70% of household water consumption

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

- **SEA OF GALILEE**: 401 (2015)
- **MOUNTAIN AQUIFER**: 70 (2005), 80 (2015)
- **COASTAL AQUIFER**: 69 (2015), 80 (2005)
- **DESALINATION**: 550 (2005)

Map of desalination plants:
- **Hadera**: 2009 (130 MCM/Y)
- **Sorek**: 2014 (150 MCM/Y)
- **Palmachim**: 2007 (60 MCM/Y)
- **Ashdod**: 2015 (100 MCM/Y)
- **Ashkelon**: 2005 (110 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
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."

Innovation Showcase – AIPAC
https://www.youtube.com/watch?v=f7-RSzKkT1s
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