

Yoav Yinon *Reference list 2022*

Solid waste

- 2022 - **Municipal Waste to Energy (WtE) Neot Hovav**
Lead consultant engineer for the first WtE project tender in Israel to treat municipal solid waste of 2 million population, with energy recovery and slag recycling
- 2022 **Daya OFMSW treatment project management**
Project manager behalf the client for 200,000 ton/year organic waste treatment at BOT framework
- 2021 **Eyal MSW project consultant**
Design and technical support for 1,200 ton/day facility with sorting, biological treatment and energy generation from Sharon region municipal waste.
- 2021 **Deganya biogas plant project management**
Management of design and permitting phase for a 2 MW plant to treat agriculture waste in the region.
- 2021 **Various biogas plants permitting for FIT**
Managing the permitting process of various plants in Yizrael valet and Arava to approve feed in tariff (FIT) for biogas.
- 2021 **Kiryat Gat CDW tender consulting**
Design and technical tender management for a 600 ton/day construction and demolition waste (CDW) recycling
- 2021 **Hiriya Gat CDW DD**
Due Diligence for a 2,000 ton/day construction and demolition waste (CDW) recycling facility in Tel Aviv region
- 2021 **Kiryat Gat CDW**
Design and technical tender management for a 600 ton/day construction and demolition waste (CDW) recycling
- 2020- **Merom Haglil biogas project management**
Management for a 100,000 ton/day chicken manure treatment facility with biogas energy capacity 5 MW.
- 2019 - **Municipal Waste to Energy (WtE) Jerusalem region**
Lead consultant engineer for the first WtE project tender in Israel to treat municipal solid waste of 3 million population, with energy recovery, slag recycling and presorting facility (capacity 2,000 ton/day)
- 2019 - **South district organic waste treatment project at Eshkol r.c.**

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- 2018 Preparation of preliminary design and BOT tender for municipal organic waste facility with 6.3 MW energy recovery (capacity 500 ton/day)
Ministry of Environmental Protection
Consulting engineer to Solid Waste Division, auditor and supervisor for various major landfills operation
- 2017 **Tel Aviv transfer stations**
Design of 2 separate transfer stations for bulky waste and street sweeping and cleaning activities of Tel Aviv municipality in these 2 districts.
- 2017 **Jerusalem WWTP (Soreq) solid waste economic improvement**
- 2017 **Landfill gas utilization – Iblin**
Expert opinion analysis about the failure to utilize the landfill gas in Iblin site for Dor Alon Gas.
- 2017 **Jerusalem WWTP (Soreq) solid waste economic improvement**
Advisor and project manager for optimization of solid waste treatment cost of the WWTP.
- 2016 **RDF co-firing at coal driven power plants**
Technical advice to the Israeli MoEP regarding the implementation of MSW sourced RDF mixture with coal as fuel for power plants.
- 2016-2017 **Tel Aviv MRF concession tender**
Managing the technical proposal (design and pricing) of Tahal Group and Veridis Environment JV for a large material recovering facility (MRF) at a governmental published BOT tender. Facility capacity is 1000 ton/day with sorting plant, anaerobic digestion, biogeneration and auxiliary units as wastewater treatment and odor control systems.
- 2014 **Jerusalem sorting station MRF**
Technical due diligence for the 1200 ton/day mechanical treatment facility of mixed MSW in Jerusalem including design review, operational review, CAPEX and OPEX analysis.
- 2013 **Hadera MRF and biogas plant**
General design and tender preparation for Hadera municipality of waste recycling plant (500 ton/day mixed waste and 120-200 ton/day organic waste).
- 2013 **Hevel Modiin MRF and biogas plant, Israel**
Prefeasibility and preliminary design for Hevel Modiin regional council of central district large scale waste recycling plant (1000 ton/day mixed waste and 500 ton/day organic waste).
- 2013 **Jerusalem organic waste treatment facility (biogas plant), Israel**
Prefeasibility for private company on 500 ton/day organic waste biogas plant.
- 2012 **Landfil gas in Evlayim landfill, Israel**
Technical advice for resolving the failure to produce energy at the landfill.

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- 2012 **Landfil gas in Abu-dis landfill, Israel**
Tender bid design of landfill gas extraction and utilization system for 3 MW electricity production station.
- 2011 **Atarot MSW sorting station feasibility, Jerusalem**
Pre-feasibility for centralized MSW sorting and transfer station in existing industrial structure in Atarot industry park Jerusalem.
- 2010 **Bio-waste plant feasibility**
Technical-economical feasibility study for centralized agro-waste biogas plant in the lake Kineret basin.
- 2008 **Lod demolition and construction waste masterplan, Israel**
Engineer at the team that is aimed to cleaning the 200,000 tons of D&C waste spread over the town of Lod in the center of Israel. The project consists of multi disciplinary approach of planning & design, recycling, economics, legislation and enforcement.
- 2007 **Ben Gurion airport waste transfer station, Israel**
Design of advanced transfer station for the international airport as part of the general environmental facilities of Ben Gurion 2000 project.
- 2006-2007 **Landfill rehabilitation survey, Israel**
National survey for the rehabilitation status and biogas potential in the closed disposal dump sites and landfills in Israel.
- 2004 **Biogas plant Hefer, Israel**
Participation in general design and leading execution tenders and permitting for the first agro-waste biogas plant in Israel (600 ton/day mainly cow manure).
- 2004 **Thermal treatment of solid waste – international survey, Israel**
International survey of solid waste thermal treatment technologies for the ministry of environment. The survey included description of the advanced technologies worldwide, analysis of costs factor for the various technologies and conditions and a pre-feasibility study for thermal treatment of municipal waste in Israel.
- 1998-2003 **Abu-Dis Landfill, Abu-Dis, Jerusalem, Israel**
General Design for landfill rehabilitation. Produced the plans for the phased rehabilitation, arranged infrastructure plans and calculated volumes.
- 1999 **Evorn Landfill, Israel**
Technical advice on choosing and procurement of bio-generators (2 MW) for the landfill biogas utilization.
- 1998-2000 **Jerusalem solid waste masterplan, Israel**
Leading the technical and costing parts of the 10 years targeted masterplan fro solid waste management in Jerusalem.

Energy

- 2019 - **Waste to Energy (WtE) Jerusalem region solid waste**
Lead consultant engineer for the first WtE project tender in Israel to recover electric energy at 66 MW rate from municipal solid waste of 3 million population (capacity 2,000 ton/day)
- 2019 - **South district organic waste treatment project at Eshkol r.c.**
Preparation of preliminary design and BOT tender for municipal organic waste facility with 6.3 MW energy recovery (capacity 500 ton/day)
- 2019 **Raanana floating Photo-Voltaic (PV) project**
Technical consultant for a 700 KW reservoir-floating PV in Raanana effluent site
- 2016 **Bio-generation from organic MSW AD**
Design and pre-procurement for 12 MW bio-generation station as part of the MSW treatment facility tender for Tel Aviv region.
- 2016 **RDF co-firing at coal driven power plants**
Technical advice to the Israeli MoEP regarding the implementation of MSW sourced RDF mixture with coal as fuel for power plants.
- 2014 **Kfar Sava WWTP biogeneration**
General design and technical consulting to energy recovery project from biogas.
- 2013 **Renewable energy technology advising to MoEP**
Editing a report as senior advisor on innovative technologies for solar air conditioning systems.
- 2013 **Herzlia WWTP biogeneration**
General design and tender preparation for biogeneration project CHP (electricity+heat) from biogas
- 2007 **AIPM cogeneration**
Preliminary design for a tender bidder to Israel largest papermill CHP project with combined cycle gas turbine – WHRG – steam turbine 20 MWe.
- 2006 **Alliance Tires cogeneration**
Preliminary design and EIA for CHP project with combined cycle gas turbine – WHRG – steam turbine 10 MWe.
- 2005 **Ben Gurion airport power plant heat impact**
Study on heat dispersion from 50 MWe gas power plant in the airport region as input for flight conditions study.
- 2005 **Maagan Michael cogeneration**
Preliminary design and EIA for CHP project 8 MWe.

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- 2000 **Miluot cogeneration**
Integration and construction design for CHP project 5 MWe with gas turbine and HRSG.
- 1998 **Deshanim cogeneration**
Integration and construction design for CHP project 5 MWe with gas turbine and HRSG.

Water Technology and Engineering

- 2021 **Shafdan WWTP upgrade project LTA**
Leading engineer in LTA team (Lander Technical Advisor) for a 3 billion NIS plan for the Shafdan WWTP upgrade. Mission included full due diligence report and quarterly monitoring.
- 2021 **Dimona WWTP consulting**
Expert opinion on Dimona WWTP effluent quality (7,000 m3/d)
- 2021 **Ashdod wastewater pumping station project manager**
Management the design and tendering of 3 projects including two emergency reservoirs and one complete new station.
- 2020 **Prinir food industry**
Expert opinion on environmental impacts from factory wastewater treatment.
- 2020 **Hitim WWTP operational consulting**
Expert opinion regarding operation with increased cow farms effluent in wastewater
- 2019 **Central sludge treatment general design**
Early design for WWTP sludge central facility of 90,000 ton/year capacity (private entrepreneur)
- 2019 **Holit WWTP mediation**
Successful mediation process between municipal owner and main contractor for Holit WWTP 3,000 m3/d, including detailed examination of final execution documents and bills.
- 2019 **Kaser el Yahud WWTP**
Technical consultant for the holy site of baptism at Kaser el Yahud (near Jericho) process design and technical tender document, for 10,000 daily visitors wastewater treatment and full water reuse.
- 2018-2022 **Raanana WWTP upgrade project management**
Management of upgrade and retrofit project of Israel largest SBR municipal WWTP (capacity 26,000 m3/d), activity included management of designers

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- (partial), execution of tenders and site supervision of main contractor until final handover and several side-systems suppliers
- 2017-2019 **Mayan Zvi WWTP upgrade with SUBRE technology**
Engineering consulting and project management support to Fluence company in upgrading first of its scale project utilizing their innovative technology.
- 2017 **Groundwater remediation master plan**
Planning for Water Authority Taas Givon contaminated site with former military industry activity residues with mainly TCE and perchlorate (capacity 16,000 m³/d)
- 2017 **Jerusalem WWTP (Soreq) S-Select full scale test**
Project management for full scale test on activated sludge line with German company Demon's innovative bioprocess boosting technology.
- 2016-2017 **Sludge treatment systems delivery management**
Project management of AlfaLaval sludge treatment systems in 7 different WWTPs
- 2016 **Due Diligence WWTPs of Beer Sheva and Ben Gurion Airport**
Leading technical economical DD process for the buying investor.
- 2016 **Abu Gosh wastewater treatment**
Expert technical-economical study on the value of treatment Abu Gosh wastewater in Bet Shemesh WWTP.
- 2016 **GES market survey**
Market survey regarding the industrial waste water sector in Israel.
- 2016 **IC Power OPC Hadera power plant**
Consulting private power plant company about the water cycle and treatment in the 200 MW power plant OPC Hadera.
- 2015-2017 **Jerusalem WWTP (Soreq) project management**
Managing the design and execution of the plant retrofit from capacity 80,000 to 120,000 m³/d and extensive nutrient removal.
- 2014 **Jerusalem west WWTP (Soreq) upgrade supervision**
Supervision on construction phase behalf design engineering office.
- 2013 **Agrobics anaerobic WWTP**
General design for patented anaerobic WWTP process for the olive oil waste industry.
- 2013 **Kidron WWTP**
General design management for 30,000 m³/d WWTP based on the advanced Nereda technology of DHV.
- 2012 **Yoqneam WWTP**
Participation in tender documents preparation for the 12,000 m³/d WWTP.
- 2011-2015 **Mevo-Carmel WWTP**

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- 2011 Design management and technical support for a 2,400 m³/d MBR WWTP, developed by BOT concessionaire
West Jerusalem WWTP upgrade (Soreq) design
Management of detailed design for a 90,000 m³/d retrofit for BNR process with international Dutch-Israeli design team.
- 2010-2015 **Nisgav WWTP**
Design management and technical support for a 9,000 m³/d tertiary WWTP near Gdera, developed by BOT concessionaire
- 2010 **Water loss in Lod, Israel**
Advanced water loss and efficient water management project for Lod, including WaterCAD network modeling, model calibration and developing recommendations both for physical and operational improvements.
- 2009 **El Yamun WWTP, Palestinian Authority**
Value engineering and costing review for MWH (USA) design for a regional WWTP at north of PA.
- 2008 **Ramat Gan water reuse, Israel**
Feasibility study for municipal water reuse project using novel technology plants to treated water supply to park irrigation and recreational lake.
- 2007 **Netanya WWTP, Israel**
Managing design at BOT tender phase for the awarded group in a 73,00 m³/d WWTP project. Currently managing design for construction.
- 2007-2009 **Dinur municipal WWTP, Israel**
Design municipal WWTP for capacity of 1,000 m³/d. Management of all design aspects, tender publishing and utilization of SBR technology.
- 2007 **Amgat WWTP, Spain**
Design citrus plant WWTP retrofit (4,000 m³/d) from old arrangement into a Biothane process.
- 2007 **Ramat Hasharon brine terminal, Israel**
Preliminary design and permit preparation for a regional brine terminal which receives, treats and direct brines from the industry to sea discharge.
- 2006 **Meizar municipal WWTP, Israel**
Design municipal WWTP 5,000 m³/d using MBBR technology. Management of all design aspects, tender publishing and supervision.
- 2006 **Alier WWTP, Spain**
Detailed design of UASB type WWTP (3,000 m³/d) for large papermill plant.
- 2004 **Coca Cola WWTP, Israel**
Preparation of full design documentation set including process flow, P&IDs, equipment & instrument specification, layouts and installation plans.
- 2006-2015 **Municipal WWTP tenders Shoket, Israel**
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- Design management, construction and commissioning support of activated sludge and tertiary treatment. Development phases included 9,000 m³/d (BOT project), 12,000 m³/d and 30,000 m³/d.
- 2004 **Design review for Yeruham WWTP, Israel**
Management and preparation of design review for a municipal WWTP of 16,000 m³/d.
- 2000-2004 **Various wineries waste water treatment consultancy, Israel**
Consultancy for 5 different medium and large size wineries in Israel for waste water treatment and environmental permitting.
- 2004 **Elite candy factory Nazareth WWTP, Israel**
Preliminary design for permitting of new aerobic WWTP for Israel's largest candies manufacturer using USFilter technology.
- 2003-2004 **Ben Gurion airport WWTP and environmental facilities, Israel**
Design management for Ben Gurion International Airport facilities including MBR technology WWTP 5,250 m³/d, full effluent reuse system and a solid waste transfer station.
- 2000 **Water supply monitoring, control and management system Valea Jiului, Romania**
Preparation of district scale project specification for Hydrocom and Dorot Valves (Israel) including modeling of the water system with up to 20 reservoirs and approx. 100 nodes
- 2000-2014 **Har Homa WWTP design, Jerusalem Israel**
Design and engineering management for pioneering Membrane Bio-Reactor (MBR) plant for wastewater treatment at 5,000 m³/d capacity. Project was halt on 2001 and re-designed and executed 2009-2014. It included an international tender for leading MBR suppliers and local tender for civil works and installations.
- 2000 **Lin Fen city water system, China**
Preliminary design and project promotion for Hydrocom and Bermad Valves (Israel) for 500,000 capita and heavy steel industry city water system upgrade.
- 2001 **Ashkelon seawater desalination plant, Israel**
Preparation of complete preliminary design and presentation book for one of the tender bidders.
- 2001 **Municipal WWTP tenders Gush Etzion, Emek Hefer and Yavne, Israel**
Preparation complete tender documents package for WWTP range of 4,000-9,000 m³/d for BOT projects.
- 2002 **Tivol and Lochamei Ha'Getaot WWTP, Israel**
Detail design and project coordination for the combined WWTP in Kibutz Lochamei HaGetaot at UASB technology with biogas utilization for heat.
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- 1999 **Zur Natan municipal water system, Israel**
Analysis of designed water supply network with various hydraulic controls at the steep hills of Zur Natan town.
- 1998 **Deshanim WWTP, Haifa Bay, Israel**
Design industrial WWTP for Israel greatest fertilizers manufacturer Deshanim. Conducting preliminary studies, detailed design, hazop contribution.
- 1998-2001 **Ashdod WWTP, Israel**
Design of anaerobic sludge farm, energy studies, biogas utilization feasibility and design, equipment specs and procurement, site supervision
- 1998 **Off-Tene Slaughterhouse WWTP, Hadera and Jerusalem Israel**
Design of WWTP for two slaughterhouses located at Hadera and Jerusalem, Israel.
- 1997-2008 **Gadot Biochemical WWTP, Haifa Bay, Israel**
Design 5 separate WWTP projects: UASB anaerobic plant, chemical neutralization, activated sludge (utilizing DHV Carrousel 2000 technology), MBR plant and resizing of the activated sludge plant.
- 1997 **Innovative application of UF membranes for sea water RO desalination pretreatment, Mekorot, Israel**
Initial research based on concurrent worldwide developments at the field, process and product tendencies and cost projection for coming years.
- 1997 **Analysis and database of sea water desalination plant components, Mekorot, Israel**
Preparation of in-house evaluation tool for assessment of sea water desalination plant cost due to applied technologies.
- 1996 **Optimization of membrane arrangement in SWRO and BWRO plants (internal work), Mekorot, Israel**
Performed with the division manager toward preliminary design of western Galilee SWRO desalination plant.
- 1996 **Perio Pharmaceuticals Israel - Water For Injection (WFI) system**
Participated in design team for high purity water plant based on reverse osmosis. Detailed design of piping systems.
- 1995 **Taro Pharmaceuticals Israel - Purified water system**
Participated in design team for high purity water plant based on reverse osmosis. Complete tender preparation including special sanitary equipment and materials, unique piping design due to high purity standards, P&IDs, layouts, procurement specifications, bills of materials etc.
- 1995 **Versatile desalination pilot plant study (academic work)**
Study performed with former Mekorot chief engineer and researched the optimal pilot plant for desalination of water from various sources.
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1994-1996 **Teva group pharmaceutical plants, Israel - process water systems**
Designed and managed projects of high purity process water and other systems
for Israel's largest pharmaceutical company.

Planning, Strategy, Environment

- 2016 **GES ltd.**
Market survey regarding the industrial waste water sector in Israel.
- 2014 **Jordan Valley water supply master plan**
Project management for national water authority.
- 2013 **Ganir air emissions survey**
Project management for odor dispersion analysis of juice factory.
- 2013 **Review of environmental technologies**
Examination and review of proposed technologies to the ministry of environment about aspects as technical feasibility, technological, innovation, market analysis, regulations etc.
- 2013 **Judea and Samaria water and wastewater master plan**
Project management for national water authority.
- 2011 **National air pollution abatement, Israel**
Leader of DHV team in a joint project with Pareto consultants. The project aim is generating a national plan to achieve target air quality in 2015 and 2020 horizons according to the new Clean Air Law of Israel. The project includes massive assistance of DHV Dutch advisors with 10 regional visits along 2011. The project is high national profile and is presented to the minister periodically.
- 2011 **Stockholm convention consulting, Israel**
Management of national planning project for the Ministry of Environmental Protection, regarding the acceptance of POPs (persistence organic pollutants) Stockholm convention by Israel. The project is multi-media for water, soil, air and food, as well as multi-disciplinary in fields of environmental engineering, legislation, administration and economy.
- 2010 **Dead Sea coastal protection , Israel**
Local representative of DHV in local activities in a consulting-design project for the shore protection and road 90 improvement along the dead sea rising water level.
- 2009-2010 **Ashdod Port EIA, Israel**
Senior participation in EIA for a new port development, as part of the DHV design team that designs the entire projects.
- 2007 **Yarkon River, Israel**
Design of a river rehabilitation scheme based on maximization of fresh water flow and economical management of effluent streams and water reuse to a sustainable solution (for Israel Water Authority).

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- 2007 **Greenhouse gas emission, Israel**
Senior engineering consultant to the project team that develops the Israeli approach toward international protocols of GHG reduction.
- 2006 **Rain harvesting project, Israel**
Management of multi-discipline national project for the testing of rain harvesting activity efficiency over several years (for water authority).
- 2004-2006 **Water databanks, Israel**
Regional project management for EU program for capacity building and data transfer between Israel and neighbors regarding the management of non-potable water.
- 2003 **Interwise market survey, Israel**
Market survey of medium and large scale investment opportunities in the developing water technology market in Israel.
- 2000 **Evaluating water contamination contributions in watersheds** with computational models using GIS (academic work)
- 2000 **Yarkon river rehabilitation, Israel**
Participation in DHV Water team for the consultancy for ministry of the environment toward a working plan for river water system rehabilitation. The project included all local studies regarding water qualities, water polluters and pollutants, relevant academic researches, feasibility of applications proposed by DHV and environmental GIS analysis.
- 1999 **Kineret lake basin management** - unique decision support system
Invention and development of unique GIS based decision support system for ministries of environment and infrastructure. The work included data acquisition project and construction of new computerized database of all water related entities on geographic and process and dynamic aspects. Participation at the development team and writing part of the computerized tool over GIS and analysis software.