

JPI Partner, EU Member State	Israel	IL
Total declared Water RDI Funding: 11 M€/yr		

The **MoE IL** is responsible for the supply and management of energy and the natural resources of the State of Israel: electricity, fuels, natural gas, energy conservation, water, sewage, oil & gas exploration, minerals and ores excavation. The Chief Scientist Office in the Ministry is responsible for providing scientific and technological support to policy makers. It encourages the development of know-how and expertise in relevant fields by promoting R&D activities in Israeli academia and industry and through international cooperation. For these purposes the Ministry operates the following R&D support programs:

1. **Basic research in the academia:** once a year the ministry publishes a call for paper that is open to approved academic institutions, for R&D proposals of new concepts and ideas with applicable horizon. The average yearly budget for this program was 2.6 M€.
2. **STARTERGY-** start-up fund: supports entrepreneurs, and assists them in reaching the proof of concept/prototype stage, so that they can raise private funding. The fund grants up to 62.5% of a project budget, with support of maximum 125K€. Over the last 7 years the STARTERGY fund invested about 700 k€ per year.
3. **Pilot and Demonstration Fund:** supports companies in scaling their innovative products to full production deployment. The fund grants up to 50% of a project budget, with support of maximum 300K€. Since initiated in 2011, the Pilot and Demonstration Fund has invested a total of 5.4 M Euro.
4. **Water and Environmental Technologies:** a joint initiation of the Israel Water Authority, the MoE, the Ministry of Environmental Protection, the Ministry of Economy, the Ministry Science, Technology and Space and the Ministry of Finance, with the aim of supporting larger R&D projects including collaboration within the academia or with the industry. The total one time budget is 1M€, for 3-5 research studies only.

Overall, the annual R&D budget of the MoE IL is about 8.7 M€, of which water R&D proposals account for 20-30%.

The **Water Authority** supports research programs at the academia and students scholarships with annual budget of 1 M€.

The **Ministry of Economy** has a variety of R&D support frameworks to companies at different stages. Overall, the ministry has supported 172 water R&D projects with total investment of 40 M€, between the years 2007-2013.

The **Ministry of Agriculture and Rural Development** has supported about 100 water R&D projects, with a total budget of 9 M€, between the years 2007 and 2012.

The **Ministry of Science, Technology and Space** operates a long term cooperation with Germany (BMBF) and supports joint water R&D researches, with total budget of 1M€ a year. In addition, the ministry holds long term cooperation with France and Italy for joint research programs, the research topics changes from time to time. The ministry supports R&D projects by a total of 100K€ per country.

The **Ministry of Environmental Protection** published calls for paper for the academia and supported 6 Water R&D projects with a total budget of 280 K€, between the years 2010 and 2013.

Table on major RDI Funding Institutions

Funder Name	Ministry	Programme	Water Programme name (if any)	Target: Research / Innovation	Bottom-up / Top-down	Annual RDI Water Funding (M€)
Chief Scientist	MoE IL	Basic research in the academia and STARTERGY and Pilot and Demonstration Func	Water Energy Nexus	both	Bottom up	1.75
Water Authority	Water Authority	Academia and Scholarships	Yes	research	Bottom up	1
Ministry of Economy	Ministry of Economy	Several R&D programs	Not specifically	both	Bottom up	5.7
Chief Scientist	Ministry of Agriculture and Rural Development	Basic research in the academia	Yes	research	Bottom up	1.5
Chief Scientist	Ministry of Science, Technology and Space	Basic research in the academia	Yes	research	Bottom up	1
Chief Scientist	Ministry of Environmental Protection	Basic research in the academia	Yes	research	Bottom up	0.07

Table with publications and patents data

Indicator ¹	SRIA theme	Publications		Patents	
		Israel	Europe ²	Israel	Europe
Raw data	Q1	633	33531	2	59
	Q2	783	37391	40	855
	Q3	3078	134254	2	759
	Q4	838	15957	30	184
	Q5	543	22514	15	329
	ALL	3306	142901	122	2256
Increasing rate ³		1.4	2.1	2.0	1.3
Patens per 1,000 publications		IL: 36.94 ; Europe: 15.78			
Standardized by population ⁴ (10 ⁶ Inhabitants)	Q1	77.5	53.7	0.0	0.0
	Q2	95.8	59.9	4.9	1.4
	Q3	376.8	215.0	0.3	1.2
	Q4	102.6	25.5	3.6	0.3
	Q5	66.5	36.0	1.8	0.5
	ALL	404.7	228.8	15.0	3.6
Standardized by GDP ⁵ (100 x 10 ³ M EUR)	Q1	294.2	229.3	0.8	0.4
	Q2	363.9	255.7	18.6	5.8
	Q3	1430.3	918.1	1.0	5.2
	Q4	389.4	109.1	13.8	1.3
	Q5	252.3	154.0	7.0	2.2
	ALL	1536.3	977.2	56.8	15.4

¹ All data correspond to the period 1999 - 2013.

² Considered as the 28 EU Member States plus the 12 Associated Countries.

³ Increasing Rate is the number of publications or patens in 2009-2013 divided by the number in 1999-2003 (considering ALL water topics).

⁴ Population obtained from http://en.wikipedia.org/wiki/List_of_countries_by_population.

⁵ Gross Domestic Product (GDP), nominal, obtained from http://en.wikipedia.org/wiki/List_of_countries_by_GDP_%28nominal%29

Tables on Funders and Performers obtained from publications analyses

SRIA theme	Funding Institutions	Acronym	Intensity of citations
Q1	ISRAEL SCIENCE FOUNDATION	ISF	100
	ISRAEL MINISTRY OF SCIENCE, TECHNOLOGY AND SPACE	MOST-IL	72
	ISRAEL MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT	MOAG	34
Q2	ISRAEL MINISTRY OF SCIENCE, TECHNOLOGY AND SPACE	MOST-IL	100
	ISRAEL SCIENCE FOUNDATION	ISF	100
	ISRAEL WATER AUTHORITY	IWA	71
Q3	ISRAEL SCIENCE FOUNDATION	ISF	100
	ISRAEL MINISTRY OF SCIENCE, TECHNOLOGY AND SPACE	MOST-IL	17
	ISRAEL WATER AUTHORITY	IWA	15
Q4	ISRAEL MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT	MOAG	100
	US ISRAEL BINATIONAL AGRICULTURAL RESEARCH AND DEVELOPMENT FUND	BARD	48
	ISRAEL MINISTRY OF ALIYAH AND INMIGRANT ABSORTION	MOIA	13
Q5	ISRAEL SCIENCE FOUNDATION	ISF	100
	ISRAEL WATER AUTHORITY	IWA	64
	US ISRAEL BINATIONAL AGRICULTURAL RESEARCH AND DEVELOPMENT FUND	BARD	64
ALL	ISRAEL SCIENCE FOUNDATION	ISF	100
	ISRAEL MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT	MOAG	57
	ISRAEL MINISTRY OF SCIENCE, TECHNOLOGY AND SPACE	MOST-IL	50

SRIA theme	Performing Institutions	Intensity of citations
Q1	HEBREW UNIVERSITY OF JERUSALEM	100
	BEN GURION UNIVERSITY	87
	AGR RES ORG	41
Q2	TECHNION ISRAEL INSTITUTE OF TECHNOLOGY	100
	HEBREW UNIVERSITY OF JERUSALEM	83
	BEN GURION UNIVERSITY	71
Q3	HEBREW UNIVERSITY OF JERUSALEM	100
	TECHNION ISRAEL INSTITUTE OF TECHNOLOGY	70
	BEN GURION UNIVERSITY	69
Q4	AGR RES ORG	100
	HEBREW UNIVERSITY OF JERUSALEM	61
	BEN GURION UNIVERSITY	61
Q5	HEBREW UNIVERSITY OF JERUSALEM	100
	BEN GURION UNIVERSITY	75
	TECHNION ISRAEL INSTITUTE OF TECHNOLOGY	63
ALL	HEBREW UNIVERSITY OF JERUSALEM	100
	BEN GURION UNIVERSITY	73
	AGR RES ORG	70