

ISRAEL NATIONAL PLAN

FOR IMPLEMENTATION OF THE PARIS AGREEMENT

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EXECUTIVE SUMMARY

Main Provisions of the Plan

The State of Israel signed the Paris Agreement on April 22, 2016. To comply with the Agreement, national level preparation is required that relates, first and foremost, to implementation of the national target for greenhouse gas (GHG) emissions reduction in 2030. This target was determined in Government Decision 542 from September 2015 and was submitted as part of Israel's Intended Nationally Determined Contribution (INDC) to the Climate Change Convention Secretariat. The Paris Agreement includes obligations and expectations from the Parties to the Convention, and especially from developed countries, on various subjects, including support to developing countries on climate change financing, technology cooperation and adaptation.

This document outlines Israel's plan for implementation of the Agreement in relation to the following central subjects:

A. Reduction of GHG Emissions

In September 2015, within the framework of Decision 542, Israel's government set a national target of reducing GHG emissions to 8.8 tons CO₂ equivalent per capita by 2025 and 7.7 tons CO₂e per capita by 2030. In order to meet the national target, sector-specific targets were set for reducing electricity consumption by at least 17% and reducing private car mileage by at least 20% by 2030, relative to a Business as Usual (BAU) scenario. An additional target was set for the production of at least 17% of total electricity generation from renewable energy by 2030.

Compliance with the GHG emissions mitigation target, as determined in the government decision, will require the reduction of some 24.5 million tons carbon dioxide equivalent (tCO₂e) in 2030, relative to anticipated emissions under the BAU scenario.

Further to Government Decision 542, Government Decision 1403 of April 2016 outlines a national plan for implementation of the targets. Following is the estimated emissions reduction potential of the plan:

Summary of GHG Emissions Reduction Measures and their Mitigation Potential:

Measure	Average Mitigation Potential in 2030 (million tCO ₂ e) under a BAU scenario
Energy efficiency in electricity consumption	7.1
Reduction of coal use *closure of units 1-4/and change in the loading order of the power plants	3.6-9.7
Electricity production from renewable energy Only relates to an addition above BAU assuming compliance with the 10% target in 2020	3.1
Reduction in refrigerant gases (F-Gas)	1.5
Waste treatment	1.6
Reduction in fuel use and emissions from production processes	1.3
Reduction in private car mileage (establishment of public transportation) *relates only to addition above BAU	1.5
Fuel efficiency in transportation *relates only to addition above BAU	1.5
Total mitigation through implementation of the central measures	21.2-27.3
Mitigation required to comply with the target	24.5

B. Monitoring and Control

As per the requirements of the Paris Agreement and in order to follow-up on the government's progress in achieving the reduction targets through implementation of the defined measures, a national system for Measurement, Reporting and Verification (MRV) must be established.

The system will monitor and analyze relevant data, allowing the government to evaluate the efficacy of different policy measures and to update them as necessary.

The system is currently under development. Preparation of the methodology and the interministerial organizational process for data collection and quality assurance should be completed in 2016.

C. International Financing

At the Paris Conference emphasis was placed on International Climate Financing to support the transition to a low-carbon global economy. The goal of mobilizing \$100 billion a year by 2020, mainly from developed countries, to support climate action was reaffirmed as well as the extension of this target to 2025 at which time its sufficiency will be reviewed. Mobilization and distribution of the financing will be based on several international funds, mechanisms and organizations working in parallel to achieve the necessary financing and support for projects throughout the world.

An action plan for Israel's integration in global financing efforts will be formulated by June 2017, while at the same time examining expectations from Israel along with opportunities for its cleantech industry.

D. Accompanying the International Negotiations

The Paris Agreement provides a framework for action by the Parties to the Convention as part of the global preparations for anticipated climate change. The details of the Agreement will continue to be worked out in meetings of the Parties, and operative guidelines will be determined within these frameworks for numerous subjects, including national reporting on target compliance, submission of updated reduction targets every five years, financing arrangements, technology transfer to developing countries, etc.

An integrated team, including representatives of governmental and non-governmental bodies, will coordinate activities on subjects identified as central to Israel within the framework of the Convention. Activities will include compilation of existing data; follow-up on negotiations in meetings of the Parties to the Convention; identification of experts in different fields; formulation of recommendations on Israel's position and its representation in meetings of the Parties when necessary; formulation of recommendations on training, publications and other methods of transferring professional knowledge to target audiences in Israel, etc.

E. Training Program

To promote compliance with the government targets and implement the National Plan for GHG Emissions Reduction, additional knowledge and expertise in some fields will be required. The Ministry of Environmental Protection (MoEP) will coordinate a training program in fields in which knowledge and capability gaps are identified, which will be updated annually in accordance with the needs and recommendations of the committee and relevant stakeholders.

The training program will focus on the following in the next two years: development of financial mechanisms to incentivize investments in energy efficiency; capacity building for monitoring and control of target achievement; integration of renewable energy in the grid; and reduction of fluorinated refrigerant use.

The following plan focuses on the implementation activities required in the years 2016-2017.

The plan will be updated periodically, as needed.

CHAPTER 1

BACKGROUND – PARIS AGREEMENT

Israel ratified the United Nations Framework Convention on Climate Change (UNFCCC) in 1996. The Convention sets a global target of "stabilization of GHG concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference to the climate system" and consequently prevention of dangerous impacts on food production, ecosystems and sustainable development.

In December 2015, 196 Parties to the Convention convened in Paris to adopt a new and binding climate agreement that would apply to all parties. The agreement was adopted on December 12, 2015 and signed on April 22, 2015 at the UN Headquarters in New York by most of the Parties, including Israel.

The Paris Agreement constitutes an important milestone in promoting the transition to a low carbon economy, and sets out the global action plan for addressing climate change and the obligations imposed on the different countries as part of the plan.

The three main targets of the plan include:

1

Reducing emissions and limiting the rise in average global temperature to well below 2°C compared to pre-industrial levels, while striving to limit it to a more ambitious level of -1.5°C.

(2

Increasing the capacity to adapt to the existing impacts of climate change.

3

Assuring the availability of financial resources to support the global effort toward mitigation and adaptation to climate change, with an emphasis on developing countries.

One of the main principles of the new agreement is the requirement that Parties to the Convention determine their own reduction targets and implementation plans in accordance with their abilities.

The State of Israel established an interministerial committee for the formulation of the national target, headed by the MoEP, with the participation of most government ministries, relevant statutory authorities, major government companies such as the Israel Electric Corporation, representatives of industry and commerce, local government and environmental NGOs, in cooperation with experts from Israel and abroad. The committee's conclusions were adopted in Government Decisions 542 and 1403. The National Plan for Implementation of the GHG Emissions Targets and for Energy Efficiency, which was formulated in accordance with the committee's recommendations, is presented below.

Entry of the Paris Agreement into force obliges all Parties to the Convention to undertake the necessary actions to fulfill the provisions of the Agreement.

Main Provisions of the Agreement



Emissions Reduction

All countries, with the exception of the least developed, are obligated to set a nationally determined contribution (NDC) and an implementation plan. The NDC target should be "ambitious" and according to the circumstances and capabilities of each country. The target should be updated upwards every five years and submitted to the Climate Change Convention Secretariat.



Adaptation

Efforts will be made to aid and support developing countries to deal with the anticipated impacts of climate change. Every country, according to its needs, must prepare a national climate change adaptation plan.



Financing in Support of Developing Countries

The Paris Conference reinforced the goal of mobilizing \$100 billion annually for assisting the adaptation and mitigation actions of developing countries. Developed countries are required to report biennially on the financing transferred, or due to be transferred, for support to developing countries.



Technology Transfer and Capacity Building

This framework is aimed at enhancing support, technically and financially, for the development and transfer of technologies to developing countries. In addition, support will be given for capacity building and the closing of knowledge gaps necessary for implementing the mitigation and adaptation national plans.



Carbon Market Mechanisms

Different mechanisms will be developed for GHG emissions trading to assist Parties in achieving their reduction targets. The goal is to facilitate an overall reduction in global emissions.



Transparency Framework

In order to ensure effective implementation of the Paris Agreement, a "transparency" system was established. All countries are required to report periodically to the Convention Secretariat on progress in implementing mitigation and adaptation plans. The information provided by the Parties will be checked by means of an international quality assurance and control system.



Stocktake

A global stocktake of cumulative GHG emissions in relation to the mitigation targets of all countries will be undertaken every five years (from 2023) in order to identify gaps and prepare for the next stage of updating the NDCs.

The arrangements set in the Agreement are in different stages of consolidation, and rules and procedures will be determined in coming years. Israel has an interest in further involvement and follow-up of the consolidation of these arrangements, as specified in chapters 3 and 4 of this document.

CHAPTER 2

ISRAEL'S GREENHOUSE GAS EMISSIONS REDUCTION (MITIGATION) PLAN

Introduction

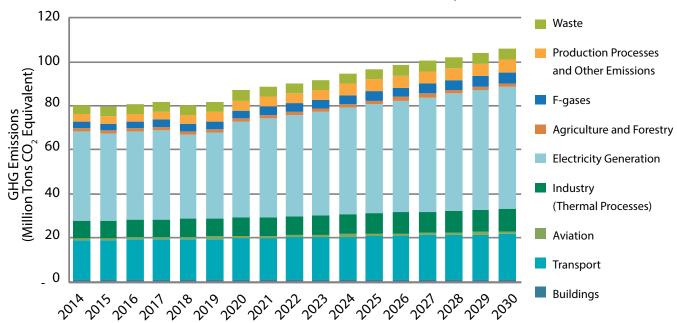
In January 2015, an interministerial committee was established to formulate Israel's targets for GHG reduction. The committee was headed by the Director General of the MoEP, with the participation of representatives of the Ministry of Finance, Ministry of Economy, Ministry of National Infrastructures, Water and Energy (henceforth Ministry of Energy), Electricity Authority, National Economic Council, Ministry of Transport, Ministry of the Interior, Ministry of Construction and Housing, Ministry of Foreign Affairs, Ministry of Agriculture, Central Bureau of Statistics and the Alternative Fuels Administration in the Prime Minister's Office. In addition, representatives of non-governmental organizations participated in the committee, including representatives of the Israel Electric Corporation, local government, the Manufacturers Association and other organizations.

The committee updated Israel's GHG emissions forecast until 2030 under a Business as Usual (BAU) scenario and formulated emissions reduction scenarios. These reduction scenarios are based on an in-depth review of some 100 sectoral mitigation levers and on the means of realizing their potential.

GHG emissions in Israel reached 78.36 million tons CO_2e or 9.7 tons CO_2e per capita in 2013. Under a BAU scenario, Israel's GHG emissions are expected to reach 105.5 million tons CO_2e , or 9.95 tons CO_2e per capita in 2030.

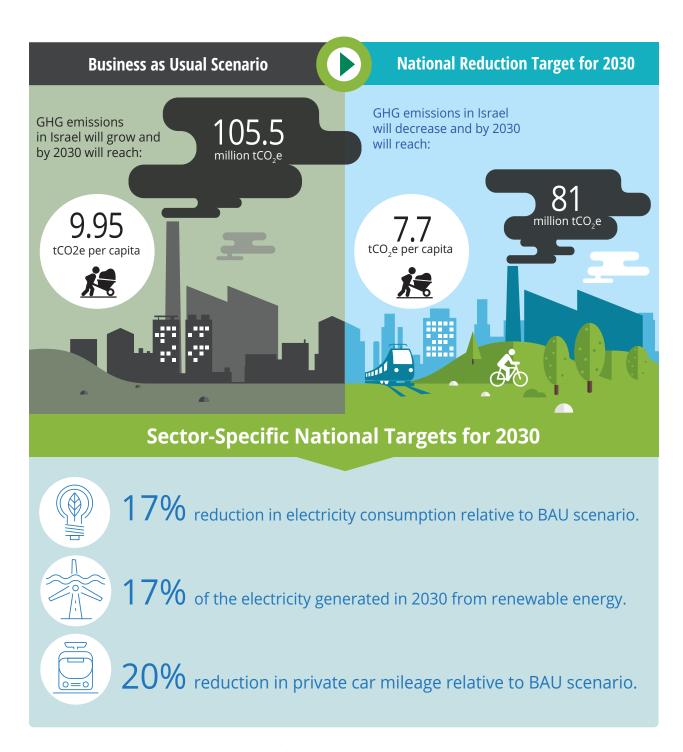
Israel's main emission sources are the energy production and transportation sectors, which are responsible for 53% and 21% respectively of total emissions anticipated in 2030. Furthermore, under the BAU scenario, electricity consumption in Israel is expected to grow by 60% – from 60 terawatt-hours (TWh) in 2015 to 96 TWh in 2030.





On the basis of the committee's work and additional considerations, the government determined Israel's national targets in a September 2015 decision. Within the framework of Government Decision 542, a national target of 8.8 tons CO_2e per capita was set for 2025 and 7.7 tons CO_2e per capita was set for 2030. Compliance with these targets will require the reduction of 24.5 million tCO_2e in 2030 relative to anticipated emissions under a BAU scenario.

In addition, in order to achieve the national emissions reduction target, sectorspecific national targets were set for energy consumption reduction and efficiency, for the generation of electricity from renewable energy sources and for the reduction of private car mileage.



The National Plan for Implementation of the GHG Emissions Reduction Targets, approved in Government Decision 1403 of April 2016, includes mitigation measures in key areas and sets timetables for review and formulation of additional measures. The estimated reduction potential of the plan, assuming implementation of all the measures and means specified in the decision is between 21.2 and 27.3 million tCO₂e in 2030 relative to the BAU scenario. To date

full consensus among government ministries on some of the reduction measures in the plan has not been reached, especially with regard to the reduction of coal use in power plants. Non-fulfillment of the reduction potential from coal will require the government to invest in more expensive alternatives in order to comply with the national targets.

Outline of the National Plan for GHG Emissions Reduction

The reduction measures by sector and emission source which were identified by the interministerial committee as well as details of the actions included in Government Decision 1403 of April 2016 are specified below:

1. Electricity Sector

Current Status

Under the BAU scenario, GHG emissions from electricity generation are expected to reach 56 million tCO_2e in 2030, constituting some 53% of total emissions in the economy. This scenario assumes meeting the target established in 2009, namely generation of 10% of Israel's electricity from renewable energy sources in 2020.

Emissions Reduction Potential

The total GHG emissions reduction potential in the electricity sector is 12.8 million tCO_2e relative to the BAU scenario for 2030, which is 53% of the total reduction needed to comply with the target.

Most of the potential in this sector results from coal use reduction and the remainder from electricity production from renewable energy sources as specified below:

- a. Coal use reduction through the shutdown of the four oldest and most polluting coal units in the Orot Rabin Power Plant (Hadera) would bring about a reduction potential of 3.6 million tCO_2e .
- b. Coal use reduction in the other coal fired units of the Israel Electric Corporation (not including units 1-4 in Orot Rabin) would bring about a reduction potential of up to 6.1 million tCO₂e. This measure is based on a change in the load order of power plants that would prioritize the most efficient units (combined cycle units based on natural gas) over less efficient units. Changing the load order will take place subject to the technical limitations of the production units and considerations of system survivability. As yet, consensus has not been reached on the scope of coal use reduction in these units.

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c. Implementation of a comprehensive plan for compliance with the 17% target for renewable energy production in 2030 would bring about a reduction potential of 3.1 million tCO₂e above anticipated electricity generation under a BAU scenario. Under the BAU scenario, full implementation of the national target set in 2009 is assumed. This target calls for 10% of the electricity generated in 2020 to be based on renewable energy. Therefore, in absolute terms, the full reduction potential of 17% (BAU + 7% to reach the target) relative to 2015 is 6.5 million tCO₂e in 2030.

Emissions Reduction Measures in the Electricity Sector, as per Government Decision 1403

Type of Measure	Description of the Measure	Responsible Party	Completion Date
Additional measures	Publishing a plan for achieving the targets for electricity generation from renewable energy, which will take into consideration, inter alia: Technical and economic benefits as well as feasibility and availability of different renewable energy technologies;	Minister of Energy	31.12.16
	 Operational considerations of the electricity sector due to the integration of renewable energy production facilities using the different technologies; Minimization of market costs and other policy considerations. 		
Regulation	Setting arrangements for implementing the plan to reach the renewable energy target, including implementation of the production target for 2020.	Electricity Authority	31.6.2016
Economic Incentive	Granting tax benefits, in the form of accelerated depreciation at a 20% rate over a three-year period, to photovoltaic commercial facilities that will be integrated in the net metering arrangement of the Electricity Authority.	Minister of Finance	*

Type of	Description of the Measure	Responsible Party	Completion
Measure	Figure tip or be autique to the account weating of	Diversion Consumble 6 the	Date
Removal of	Evaluating barriers to the construction of	Director General of the	30.9.2016
barriers to	renewable energy facilities and submitting	Ministry of Energy, in	
renewable	recommendations for minimizing these	cooperation with the	
energy	barriers. The team will evaluate, inter alia, the	Electricity Authority,	
	following:	Ministry of Finance,	
	Extending the duration of production	Israel Lands Authority,	
	licenses for renewable energy electricity-	Ministry of the Interior,	
	generating facilities to a period longer	Ministry of Economy,	
	than 20 years, taking into consideration the	MoEP and the Chief	
	economic life of the facilities;	Government Assessor	
	 Cancelling or reducing the requirement 		
	for furnishing shareholder's equity for		
	renewable energy electricity-generating		
	facilities.		
Removal of	Removing barriers to promoting the planning	Ministry of Energy and	*
barriers	of large-scale land uses for renewable energy.	MoEP	
Removal of	Submitting a decision proposal to the Israel	Minister of Finance	*
barriers	Lands Council for setting a uniform price for		
	the allocation of land for the construction		
	of renewable energy electricity-generating		
	facilities, taking into consideration the type		
	of project and the land designation, and		
	according to rules that will be set by the Chief		
	Government Assessor.		
Removal of	Evaluating easements for dual use of land	Israel Lands Authority	*
barriers	to encourage the construction of renewable		
	energy facilities.		
Economic	Completing the legislative process for granting	Minister of Finance	*
incentive	income tax exemption to an individual who		
	generates household electricity, up to an		
	annual income of NIS 18,000 (in 2008 prices),		
	from the production of electricity from		
	photovoltaic or wind energy.		
Regulation	Evaluating the integration of photovoltaic	Accountant General of	1.6.2016
_	facilities on the roofs of buildings.	the Ministry of Finance	

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Type of Measure	Description of the Measure	Responsible Party	Completion Date
Removal of	Completing a bird sensitivity map in order to	Minister of	20.9.2016
barriers	increase the certainty in locating wind energy	Environmental	
	electricity-generating facilities.	Protection	
Regulation	Amending Government Decision No. 2117 of		*
	22.10.2014 so that in section E of the previous		
	Government Decision regarding power supply		
	to the grid from photovoltaic stations the words		
	"30 MW" will be replaced by "up to 40 MW."		
Additional	Evaluating and formulating additional	Ministry of Energy	30.8.2016
measure s	measures for a further reduction of GHG	(including the	
	emissions, including in the electricity sector,	Electricity Authority),	
	in order to meet the national targets for GHG	Ministry of Finance,	
	emissions reduction, including evaluating the	Ministry of Economy,	
	manner of coal use for electricity production	and MoEP	
	while safeguarding Israel's energy security and		
	evaluating the use of biomass as an alternative		
	fuel.		
Regulation	Amending the development plan of the Israel	Minister of Energy and	*
	Electric Corporation so as not to include the	Minister of Finance	
	construction of Power Plant D in Ashkelon,		
	following full consultation with the Electricity		
	Authority.		

^{*} According to timetables to be set by the interministerial committee

2. Energy Efficiency in Commercial, Residential and Public Buildings and in Industry

Current Status

Under a BAU scenario, indirect (electricity consumption) and direct GHG emissions are expected to reach 48 million tCO₂e as specified below:

- a. Indirect emissions from electricity consumption: 47 million tCO₂e;
- b. Direct emissions from fuel combustion in buildings for heating, water heating and cooking: 1 million tCO₂e.

Emissions Reduction Potential

The reduction potential of decreasing electricity consumption in buildings and in industry is estimated at 7.1 million tCO_2e relative to the BAU scenario in 2030, which is 29% of the total reduction needed to comply with the target.

Implementation of the energy efficiency measures is expected to bring about direct savings to the economy of NIS 30 billion cumulatively by 2030 (this calculation does not include cost savings associated with air pollution).

Measures to Encourage Investments in the Energy Efficiency of Buildings and Industry and to Increase the Rate of New Green Building, as per Government Decision 1403

Type of Measure	Description of the Measure	Responsible Party	Date of program initiation/ formulation of the measure
Economic	Government guarantees totaling NIS 500	Accountant General	Operation of
mechanism	million over a ten-year period to leverage	in the Ministry	the guarantee
	investment loans in the fields of energy	of Finance in	mechanism in the
	efficiency and GHG emissions reduction.	cooperation with	second half of 2017
	Recommendations on rules for the grant of	the following	
	guarantees in accordance with the targets	ministries:	
	set in the government decision, including	Energy, Budget	Completion of the
	entities eligible for guarantees, guarantee	Department,	formulation of rules
	cap, guarantee duration, and prioritization	Economy and	by 31.12.2016
	of project types and technologies over	Environmental	
	time, including prioritization of innovative	Protection	
	Israeli technologies.		

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Type of Measure	Description of the Measure	Responsible Party	Date of program initiation/ formulation of the measure
Economic mechanism	Grant program totaling NIS 300 million for the years 2016-2019 to incentivize investments in energy efficiency and GHG emissions reduction. The program will be run by the Investment Center in the Ministry of Economy. The grants will be given on the basis of competition over the reduction cost of a ton of GHGs and kWh saved. The grant program will include, inter alia, criteria for preference to disadvantaged local authorities and small and medium-sized businesses, promotion of air pollution reduction from industry, and promotion of investments that will integrate the installation of innovative Israeli technologies.	MoEP, Ministry of Economy, Ministry of Energy and Ministry of Finance	1.9.2016
Economic mechanism	Evaluating and formulating steps to reach the target of electricity consumption reduction. The evaluation will include, inter alia, the following measures and mechanisms and, as necessary, legislative amendment: Mechanism for the generation of units of energy saved (Negawatts) from electricity providers, producers and consumers and other license holders in the electricity sector; Use of electricity bills as a clearinghouse for repayment of loans given to electricity consumers for investments in energy efficiency, taking into consideration the financial exposure of electricity providers from implementation of this mechanism.	Ministry of Energy in cooperation with the Electricity Authority and the Ministries of Finance and Environmental Protection	30.11.2016

Type of Measure	Description of the Measure	Responsible Party	Date of program initiation/ formulation of the measure
Economic mechanism	Evaluating an update in the tax policy on accelerated depreciation for energy-saving products.	Ministry of Finance in cooperation with the Ministry of Energy	30.9.2016
Regulation, standards and economic measures	Evaluating measures for increasing the number of new buildings to be constructed until 2030 according to Green Building Standard 5281 and setting targets for such an increase in the commercial and public building sector, subject to cost-benefit analysis. The evaluation will include the following components, inter alia: Green building standard requirement in new buildings; Economic tools to incentivize new building that complies with the green building standard; Evaluation of the technical and economic feasibility of technological measures.	MoEP in	30.9.2016
Regulation and standards	Evaluating the totality of measures necessary to formulate regulations that would establish an energy rating requirement for new residential and commercial buildings on the basis of Israel Standard 5282.	Minister of Energy, in consultation with the Minister of Environmental Protection, Minister of Construction and Housing and Minister of Finance	30.9.2016

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			Date of program
Type of	Description of the Measure	Responsible Party	initiation/
Measure	Description of the Measure	nesponsible ruley	formulation of the
			measure
Removal of	Increasing the number of entities dealing	MoEP in	30.9.2016
barriers	with green building standard certification	cooperation with	
	as part of a wider process of evaluating	the following	
	measures to increase the number of new	ministries:	
	buildings to be built until 2030 according	Energy, Economy,	
	to Green Building Standard 5281.	Construction and	
		Housing, Finance	
		and Interior	
Additional	Appointing a ministerial energy officer	All government	31.5.2016
measures	to report annually, and no later than	ministries and their	
	March 1 of every year, via an online form	units	
	on the Ministry of Energy's website, on		
	the energy consumption of the ministry		
	in the previous year and on the activities		
	and measures taken to reduce it, as per		
	the request of the Director General of the		
	Ministry of Energy or his representative,		
	and to take steps to reduce it further.		
Additional	Formulating and running a training course	Minister of Energy	ongoing
measures	for government employees who will be		
	appointed as ministerial energy officers.		
Additional	Publishing the electricity consumption	Minister of Energy	ongoing
measures	data of all government ministries and units		
	annually.		
Additional	Formulating and operating mechanisms	Civil Service	30.6.2016
measures	to encourage energy efficiency in	Commission in	
	government ministries in order to promote	cooperation with	
	energy consumption savings.	the following	
		ministries: Energy,	
		Finance and	
		Environmental	
		Protection	

3. Transportation

Current Status

The transportation sector is the second in size in terms of GHG emissions in Israel. Emissions from this sector in 2030 are expected to reach 21.7 million tCO_2e , some 21% of expected emissions under a BAU scenario.

Emissions Reduction Potential

The reduction potential in the transportation sector is estimated at 3 million tCO₂e until 2030, which is 12% of the total reduction needed to comply with the target.

This potential stems from two major components, each of which is expected to reduce some 1.5 million tCO₂e in 2030:

- a. Reducing private car mileage in accordance with the target set in Government Decision 542, at a rate of 20% relative to anticipated mileage in that year under a BAU scenario and 2015 trends;
- b. Increasing the efficiency of fuel consumption in transportation by promoting the penetration of efficient vehicles and alternative propulsion (electricity and natural gas) vehicles.

Policy Measures and Other Steps for Reducing Private Car Mileage and Promoting Fuel Consumption Efficiency in Transportation, as per Government Decision 1403

Type of Measure	Description of the Measure	Responsible Party	Completion Date
National plan	Formulating and implementing a plan to	Minister of	30.6.2017
	promote the use of public transportation	Transport and	(publication
	and meet the targets of reducing private car	Minister of Finance,	of the plan)
	mileage.	in consultation	
		with the Minister	
		of Environmental	
		Protection	



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Type of Measure	Description of the Measure	Responsible Party	Completion Date
Economic	Evaluating economic tools, including economic	Minister of Transport	30.6.2017
incentive	incentives and changes in tax policy, to	and Minister	
	promote GHG emissions reduction in the	of Finance, in	
	transportation sector.	consultation with	
		the Minister of	
		Energy, Minister	
		of Environmental	
		Protection and the	
		Alternative Fuels	
		Administration in the	
		Prime Minister's Office	
Economic	Evaluating economic tools, including economic	Minister of Energy and	31.12.2016
incentive	incentives and tax policy, to promote the	Minister of Finance,	
	infrastructure for changing the mix of fuels in	in consultation	
	the economy so as to reduce GHG emissions in	with the Minister of	
	the different sectors.	Transport, Minister	
		of Environmental	
		Protection and the	
		Alternative Fuels	
		Administration in the	
		Prime Minister's Office	

4. Additional Reduction Potential

In addition to the measures included in Government Decision 1403, significant reduction potential exists in other sectors: energy generation and production processes in industry, refrigerant use, and the waste and wastewater treatment sector. Under the BAU scenario, GHG emissions from these sectors are expected to reach 22.5 million tCO₂e in 2030. The reduction potential in these sectors is estimated at 4.5 million tCO₂e, as per the following:



Emissions Reduction from Energy Generation and Production Processes in Industry

GHG emissions from fuel use in buildings and in industry and emissions from production processes are expected to reach 14.4 million tCO₂e in 2030 under a BAU scenario.

The reduction potential from these emission sources is estimated at 1.3 million tCO_2e , especially through increased efficiency of water heating systems in buildings, a switch from the use of fuel oil to natural gas in industrial plants and establishment of cogeneration facilities.



Waste and Wastewater Treatment Sector

GHG emissions from the waste and wastewater treatment sector are expected to reach some 5 million tCO₂e in 2030 under a BAU scenario and to constitute nearly 5% of total emissions.

The reduction potential is estimated at 1.6 million tCO_2e , which is 7% of the total reduction needed to comply with the target. This reduction largely stems from the prevention of waste landfilling for the purpose of producing refuse-derived fuel (RDF) or biogas in anaerobic digesters (for electricity production) as well as from the collection and use of landfill gases in waste disposal sites.



Refrigerants (HFCs)

F-gases such as HFCs are used for cooling systems and air conditioning in buildings, industry and vehicles. Emissions from F-gas use are expected to grow significantly under a BAU scenario,

at a rate of 259% as of 2012, as they present an available alternative to HCFCs (refrigerants) whose use is gradually being phased out in accordance with the Montreal Protocol for the Protection of the Ozone Layer.

The reduction potential of implementing new standards for limiting the import of refrigerants with high global warming potential, conducting trainings for technicians using HFC alternatives, and using economic tools to incentivize investments aimed at promoting a transition to systems based on environmentally friendly alternatives is estimated at 1.4 million tCO₂e, which is 6% of the total reduction needed to comply with the target.

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5. Promotion of Israeli Technologies

Israel has a unique combination of security and hi-tech industries and an entrepreneurial environment that together creates an exceptional range of opportunities. Israel has therefore attained impressive achievements in the field of cleantech, and was even rated in first place in innovation (R&D) among 40 entrepreneurial states by the Cleantech Group.

At the same time, there is a significant gap between R&D achievements and the commercialization of technologies, in which Israel only ranked eighth. This gap is due to difficulties in the following two stages of the process:

- **1. Commercial demonstration stage:** demonstration of the commercial applicability of the technology, including construction of pilot facilities;
- 2. **Commercialization stage:** full commercial implementation of the technology.

In the framework of Government Decision 1403, several policy measures and additional steps were approved aimed at promoting Israeli technologies in relevant areas for the reduction of GHG emissions and the improvement of energy efficiency.

Measures for Promoting Israeli Technologies in Relevant Areas

Type of Measure	Description of the Measure	Responsible Party	Completion Date
National Plan	Establishing a steering committee to formulate	Ministry of Economy	30.9.2016
	recommendations for a plan to support and	in cooperation with	
	advance Israeli technologies in the fields of	representatives	
	energy efficiency, renewable energy, smart grid,	of the Ministry of	
	energy storage and GHG emissions reduction.	Finance, Ministry of	
	The plan will include the following supporting	Energy (including the	
	instruments and tools:	Electricity Authority),	
	Financial instruments for supporting start-	National Authority	
	up technologies for technologies at their	for Technological	
	pilot demonstration stage and for the	Innovation and MoEP	
	penetration of technologies into the Israeli		
	market and foreign markets. In addition,		
	creation of a designated financial instrument		
	for supporting companies at their initial		
	commercial demonstration stage;		
	Tools for marketing, investment promotion,		
	and strategic advancement of the renewable		
	energy and energy efficiency sectors in		
	the Israeli market and in foreign markets,		
	including a mechanism for managing		
	and networking the community of		
	entrepreneurs, investors, companies and		
	businesspeople, working to promote		
	solutions in the fields of renewable energy		
	and energy efficiency in Israel;		
	Complementary tools, including evaluation		
	and recommendations for regulatory		
	changes needed to remove barriers and		
	additional tools to promote the industry, as		
	deemed appropriate.		

ISRAEL'S GREENHOUSE GAS EMISSIONS REDUCTION (MITIGATION) PLAN



Type of Measure	Description of the Measure	Responsible Party	Completion Date
Economic	Evaluating and formulating a method	Minister of Energy,	30.6.2016
mechanism/	for supporting pilot and commercial	in consultation	
incentive	demonstration facilities for electricity	with the Minister of	
	generation and for the provision of system	Economy, Minister of	
	services using renewable energy. The	Finance and Minister	
	evaluation will include, inter alia, support	of Environmental	
	mechanisms including grants to innovative	Protection	
	Israeli technologies.		
Regulation	Amending section C.6 of Government	Minister of Energy	*
	Decision 3484 of 17.7.2011 for the purpose		
	of lengthening the application of a quota		
	of 50 MW for electricity production facilities		
	(which expired on 31.12.2015) through pilot		
	facilities using innovative technologies, until an		
	alternative plan in accordance with this section		
	is implemented, and no later than 31.12.2018		

^{*} According to timetables to be determined by the interministerial committee

Summary of Mitigation Measures

Mitigation potential in 2030 in million tons



Energy efficiency in electricity consumption



Target compliance

Reduction of coal use

Closure of units 1-4/ change in loading order of power plants



Electricity production from

renewable energy
*only relates to an addition above
BAU which assumes compliance with
the target of 10% in 2020



Reduction in refrigerant emissions



Reduction in fuel use and emissions from production processes



Reduction in private car mileage (establishment of public transport)



Fuel efficiency in transport

*relates only to addition beyond BAU



Waste treatment



21.2-27.3

Total reduction assuming implementation of the measures

million tCO₂e

Mitigation required to reach the target:

The scope of coal use reduction in power stations has not yet been determined.



Non-fulfillment of the reduction potential from coal will require the government to invest in alternative, more expensive measures in order to comply with the

CHAPTER 3

REPORTING AND CONTROL SYSTEM

Aims of the System

Within the framework of the Paris Agreement, Israel is required to set up a national system for Measurement, Reporting and Verification (MRV). Within this framework, data will be collected and analyzed in order to measure the effectiveness of government policy in implementing the measures defined in the National Plan and to update it according.

Aims of the System:



To assess Israel's progress toward achievement of the approved mitigation targets.



To assess the effectiveness of policy tools and mitigation measures and to update the National Plan accordingly.

3

To comply with reporting obligations to the UN.



To publish information to the public.

The MRV system will be based on three components:

- Monitoring and follow-up: Annual follow-up will be conducted in cooperation with government ministries and professionals, and in accordance with the relevant international guidelines and standards. Upon completion of the process, it will be possible to estimate the scope of expected mitigation in 2025 and 2030 and the gap relative to the mitigation targets determined for these target years.
- 2. Quality assurance: Within the framework of the system, quality assurance procedures will be integrated into the working assumptions and methodology for calculating the scope of mitigation, the work procedures, the reported data and the results of the analysis and the conclusions. Quality assurance procedures will be based on international criteria and UNFCCC guidelines. Israel's Biennial Update Report (BUR) will undergo its first review by international experts within the framework of the International Consultation and Analysis (ICA) process in the coming year.

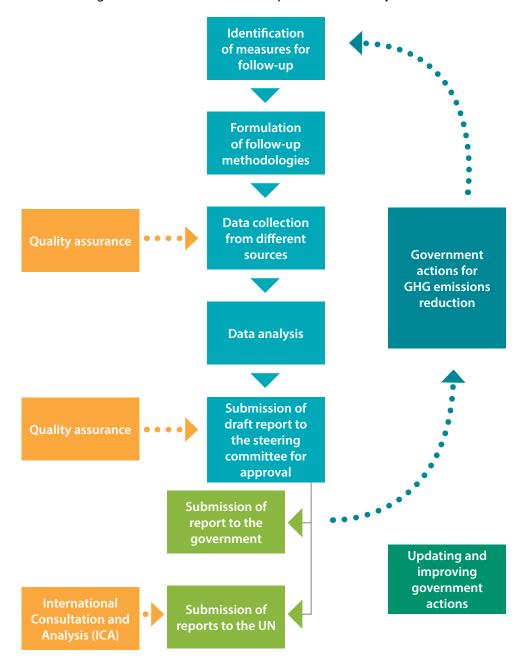
3. **Reporting:** The results of the follow-up and control will be reported to the Israel government every year and to the Climate Change Convention Secretariat within the framework of the BUR every two years and within the framework of the National Communication Report every four years, as required of Israel as a Party to the Convention.

Israel's MRV system will prepare and publish the following reports:

Reported Information	Annual Report to the Government December 2016	National Communication Report to the UN every four years in 2017	Biennial Update Report (BUR) to the UN December 2017
National circumstances (economic,		√	✓
demographic, social and other developments)		•	•
National Emissions Inventory	✓	✓	✓
National targets, programs and policy			
measures for their achievement (including			
scope of achieved mitigation, implementation	✓	✓	✓
indicators, economic effectiveness, scope of			
public and private investment)			
Analysis of barriers and recommendations for	√		
improving government policy	·		
Review and analysis of additional policy			
measures recommended for compliance with	✓		
the national mitigation targets			
Description of the national MRV system	✓		✓
Vulnerability to climate change and		√	
adaptation measures		,	
Additional measures: technology transfer,			
education and public awareness, observations		✓	
and research, and knowledge transfer			
National needs in relation to capacity			
building, technology development and		✓	✓
transfer, and financing			
Specification of the support received in			✓
practice			

Work Process of the System

The following chart details the main work processes of the system:



The annual work process of the system will be based on the following milestones:

Receipt of data from professionals

Implementation: April 31

Completion of the quality assurance process for reported data

Implementation: June 30

Completion of data analysis

Implementation: August 31

Submission of findings and draft report to the steering and follow-up committee for comments

Implementation: September 31

Submission of report to the government/UN

Implementation: 15 December

Administration of the System and Timetables for Reporting

The system will be administered by an interministerial steering committee headed by the Director General of the MoEP as determined in Government Decision 1403. The committee will convene at least twice a year to review reports on progress and results of the follow-up process.

The functions of the committee are:

- 1. Follow-up on the system's operation and compliance with its goals and timetables.
- 2. Prioritization of the policy measures for follow-up.
- 3. Assessment of the need for additional policy measures or changes in existing policy measures for the purpose of meeting the targets.

The reporting and control system will be completed by the end of 2016.

CHAPTER 4

INTERNATIONAL FINANCING

Background

The Paris Climate Change Conference stressed the importance of International Climate Financing to support the transition to a low-carbon global economy. The Conference reaffirmed the mobilization target of \$100 billion per year by 2020 and called on developing countries to extend this target to 2025, at which time it will be reassessed as to its sufficiency. Mobilization and distribution of the financing will be based on several funds, mechanisms and organizations working in parallel to finance and support climate change projects throughout the world, but details still need to be worked out. At this stage, it appears that the influence of countries will largely be based on their activities within the framework of the financial mechanisms that have been or will be established.

What is Climate Financing?

The group of development banks only reached agreement on definitions related to climate financing in 2015. The document entitled "Common Principles for Climate Mitigation Finance Tracking" defines what is included under the term and characterizes nine different categories: production of lower-carbon energy generation, energy efficiency, renewable energies, sustainable transport, non-energy emissions reduction, low-carbon technologies, waste and wastewater, agriculture, forestry, land uses and cross-cutting issues.

Calculating the Scope of Financing in Recent Years

In the wake of the Paris Conference, the MoEP conducted a climate financing survey which specifies the contributions of countries to the various funds. According to an OECD report, the volume of public and private climate finance mobilized by developed countries reached \$62 billion in 2014. However, there is no systematic calculation mechanism for the scope of contribution expected from the different countries. A preliminary comparison of the extent of financing by countries with similar circumstances to Israel was conducted by the MoEP, but a more in-depth calculation should be conducted to assess the scope of financing expected from Israel.

Funding Bodies

Reaching the global goal of \$100 billion will be based on different sources, including: financing by developed countries, banks, private and public funds, private investors, etc. The Paris Agreement gives special mention to the following four funds that exist under the UNFCCC:

Special Climate Change Fund

Least Developed Countries Fund

Adaptation Fund

Green Climate Fund

The Green Climate Fund will constitute the main channel for climate financing in the international arena. Israel's activities vis à vis the Fund are under review in the MoEP. While earmarking contributions for specific actions is not possible within the framework of the Fund, opportunities for Israeli companies may be examined by means of the entities accredited to submit applications on behalf of the Fund and involvement in projects (in developing countries) that are implemented by the Fund. Additional possibilities for influence may be achieved through the integration of representatives within the administrative mechanisms of this and other funds.

Further opportunities to promote Israeli cleantech may also exist in additional funds, European Union programs, setting up of a joint fund with another country, etc.

Israel's Preparations on Financing Issues

Formulating the manner and scope of Israel's integration in the framework of international financing efforts

As part of Israel's commitment to the Paris Agreement, it will be required to report on its projected financial support. The scope and manner of such participation should be determined, while promoting Israel's cleantech in these efforts to the greatest extent possible.

Assessing financing possibilities on renewable energies and energy efficiency by means of a joint task force with the USA

Within the framework of the 31st conference of the US-Israel Joint Economic Development Group (JEDG), headed by the Ministry of Finance, it was decided to set up a joint clean energy finance task force with the US Government. This field holds opportunities for the economy through the promotion of Israeli cleantech, implementation of energy efficiency and penetration of renewable energies to the economy.

INTERNATIONAL FINANCING

The task force will discuss financial incentives for three tracks:

- 1. Renewable energies in Israel;
- 2. Energy efficiency in Israel;
- 3. Technological innovation and promotion of Israeli cleantech.

Expected Actions in the Coming Year

Action	Responsible Party	Partners	Completion Date
Examining the financing	MoEP	Ministry of Foreign Affairs,	1.3.2017
expected of Israel within		Ministry of Finance,	
the framework of the Paris		Ministry of Economy	
Agreement			
Preparing an action plan for	MoEP	Ministry of Foreign Affairs,	1.6.2017
Israel's integration in global		Ministry of Finance,	
financing efforts		Ministry of Economy,	
		Ministry of Energy	
Formulating funding	Ministry of National	MoEP, Ministry of Foreign	12.2018
mechanisms for renewable	Infrastructures,	Affairs, Ministry of	
energy and energy efficiency	Energy and Water /	Economy	
projects in Israel	Electricity Authority		
International review of models	Ministry of National	MoEP, Ministry of Foreign	Activity expected
to promote three tracks for the	Infrastructures,	Affairs, Ministry of	to begin on
task force, including interviews	Energy and Water/	Economy	1.10.16 and to
with experts in financial	Electricity Authority		continue for two
innovation			years
Holding the first meeting of the	Ministry of National	MoEP, Ministry of	1.11.2016
task force	Infrastructures,	Foreign Affairs, Ministry	
	Energy and Water/	of Economy, Ministry	
	Electricity Authority	of Finance, Electricity	
		Authority	

CHAPTER 5

ACCOMPANYING THE INTERNATIONAL NEGOTIATIONS AND KNOWLEDGE BUILDING

Involvement in International Mechanisms

The Paris Agreement constitutes the framework for universal action to address climate change. The details of the Agreement will continue to be worked out in meetings of the Parties. It is especially important for Israeli representatives to participate in these meetings, in whose frameworks operative procedures and rules will be determined on numerous subjects, such as guidelines on country reporting, establishment and operation of the new technology framework, establishment of new market mechanisms for emissions trading, mechanisms for providing financing and technology transfer to developing countries, etc.

Upon entry into force and beyond, much of this activity will be undertaken by the Ad Hoc Working Group on the Paris Agreement (APA) and subsequently activities will be continued by the new body that was established to implement the Agreement, the CMA, and by the Convention's existing subsidiary bodies, the SBI and the SBSTA.

The following subjects were identified as central for Israel's activities in coming years. They reflect Israel's main areas of commitment within the framework of the Agreement, or those subjects in which Israel's involvement is deemed to hold a relative advantage.

Main Subjects for Israeli Activity:

- Nationally Determined Contributions (NDCs): GHG emissions reduction targets for 2030 have already been submitted by most of the Parties to the Convention, and must be updated every five years. Discussions will revolve around setting guidelines for future absolute or relative targets, such as: assumptions and methodologies, quantifiable information such as base year used for calculating reduction, timeframes, etc.
- Transparency Framework: This framework encompasses both transparency
 of action by means of MRV systems as well as transparency of support to
 developing countries in finance, technology development and transfer, and
 capacity building.
- 3. **Finance:** A global goal of mobilizing \$100 billion per year for support of developing countries was reinforced in Paris. Discussions by the Parties to the Convention will focus on concrete mobilization and manner of reporting.

- 4. **Technology Development and Transfer and New Technology Mechanism:**One of the main sources of support to developing countries is the transfer of technologies which constitutes a significant part of the climate financing that will be mobilized from developed countries within the framework of the Paris Agreement. Israel's integration in this area should be examined in order to leverage Israeli cleantech, while providing technical assistance.
- 5. **National Adaptation Plan (NAP), Adaptation Communications:** The Paris Agreement set a global goal for adaptation to climate change requiring all countries to prepare national adaptation plans and to report to the Convention on the formulation and implementation of the plans, including the scope of support to developing countries on this issue.
- 6. Market Mechanisms: The Paris Agreement calls for the establishment of mechanisms for emissions trading and carbon markets to assist Parties to achieve their national targets on a voluntary basis. In the coming years, the Convention bodies will hold discussions on the details of the mechanisms.
- 7. **Entry into Force:** The Agreement entered into force following ratification by 55 countries responsible for 55% of the total global emissions. Issues relating to entry into force include the time of convening the first meeting of the Parties, the position of those countries which have not yet ratified the Agreement, the implications of an earlier entry of the Agreement into force and timetables for different actions.
- 8. **Mechanism for Promoting Implementation and Compliance:** The functions and powers of the compliance mechanism have not yet been specified but it will be a facilitative rather than a punitive mechanism.
- 9. International Consultative Assessment and Multilateral Process: The information reported by the countries to the Secretariat will be reviewed by technical experts and presented by the Parties at meetings of the Convention for the purpose of clarification and transparency. In the coming year, Israel's first assessment process in this framework will take place.

ACCOMPANYING THE INTERNATIONAL NEGOTIATIONS AND KNOWLEDGE BUILDING

Additional Subjects:

- Global Stocktake from 2023 and Facilitative Dialogue in 2018: A global stocktake of aggregate actions taken to reach the global target and NDCs will be carried out. The results should influence the preparation of countries' future NDCs.
- 2. Response Measures: GHG reduction measures in one country may have an effect on the economies of other countries, such as fossil fuel exporters. Consideration will be given to the concerns of countries that will be most affected by the impacts of the response measures to reduce negative impacts on their economies from the transition of other countries to low-carbon economies.
- The Warsaw Mechanism on Loss and Damage: This mechanism aims to promote implementation of approaches to address the adverse impacts of climate change which adaptation cannot address, including insurance issues (but not including compensation).
- 4. **Non-Party Stakeholders:** The Paris Agreement calls for climate action by local government, the business sector and other bodies.

Israel's Preparations for Accompanying the International Process

Due to the wide gamut of subjects that will be discussed within the framework of the Convention's meetings and the expertise necessary to accompany these subjects, the committed involvement of the government, business and civil society sectors is important. Experts and organizations that will contribute to Israel's activity and opportunities to promote Israeli policy will be identified in order to create a wide knowledge base and active participation in these areas.

In each subject identified as central to Israel's international activity within the framework of the Climate Change Convention, an integrated team (governmental and non-governmental) will coordinate the activities, including:

- Review of the existing knowledge and relevant professional material, including scientific material, while at the same time consulting with international and Israeli bodies from all sectors (government, private, etc.).
- Identification of governmental and non-governmental bodies with expertise in the area.
- Formulation of recommendations on Israel's position in UNFCCC discussions, based on the relevant professional material and the positions of governmental and non-governmental bodies.
- Formulation of proposals for submissions that are periodically requested by the UNFCCC Secretariat.
- Identification of opportunities to deepen Israel's involvement in the bodies of the Convention, including joining new initiatives, appointment of Israeli representatives to committees, and identification of relevant representatives.
- Representation of Israel in meetings of the Convention when necessary.
- Holding of consultations with supporting bodies such as the Climate Change Expert Group (OECD), IEA, CTCN, CCAC, World Resources Institute (WRI), Center for Climate and Energy Solutions (C2ES), Clean Energy Group, New Climate Economy, etc.
- Formulation of recommendations on training, publications and other means of transferring professional knowledge to target audiences in Israel.

TRAINING PROGRAM

Knowledge and Skill Building

In order to meet government targets and implement the National Plan for GHG Emissions Reduction, government ministries, local authorities, the business sector, the civil sector and other bodies will have to acquire new knowledge and expertise on some of the subjects. In certain cases, knowledge may be gained from other developed countries. In some cases, it will be necessary to adapt measures to Israel's unique circumstances.

Following is a preliminary list of the areas identified by the MoEP as requiring the preparation of a training program in coming years:

Development of financial mechanisms to incentivize investments in energy efficiency:

Government Decision 1403 calls for the establishment of a financial mechanism (grants and guarantees) to promote investments in energy efficiency. The broadening of these financial mechanisms and the use of additional measures, such as the negawatt mechanism, should be examined. In parallel, involvement in existing international financial mechanisms or platforms that are expected to be established as a result of the Paris Agreement should be examined in order to help promote the export of Israeli technologies.

Building capacity for follow-up and control of the implementation of the reduction targets:

Under the reporting obligations to the Convention on the implementation of measures to reach national targets, Israel is required to develop follow-up, modeling and scenario-building capability. The knowledge and expertise on use of the models that served the interministerial committee for preparing the scenarios (LEAP model) should be broadened.

Integration of renewable energy in the grid:

The percentage of renewable energy in Israel is about 3%, while the 2030 target is 17%. Reaching the target requires structural changes in the energy sector including the development of financial and regulatory models. Lessons may be learned from world experience, such as the California experience, where policy on the large-scale integration of renewable energies in the grid is already implemented with a focus on the following subjects: management of the grid in such a way as to allow the integration of renewable energies and the integration of energy storage and pumped energy technologies.

Increasing energy efficiency in cooling systems:

Israel currently has no regulation on the use of fluorinated refrigerants (F-gas). As part of the international effort to reduce GHG emissions from this source, and in light of the results of the work of the interministerial committee which forecasted a sharp rise in the emission of these gases in Israel in 2030, an indepth review of the subject is required. Cooperation with the EU, where a wide regulatory base exists on this subject, may be promoted.

Coordination of the Training Program

The training program and its subject matter will be coordinated by the MoEP and updated annually according to the needs and recommendations of committee members and relevant stakeholders. The program will be financed by the relevant government ministries as well as by budgetary allocations of international climate change support bodies.

Training program for 2016-2017: Following is the preliminary program on planned activities on information building and training for 2016-2017 in the core subjects specified above:

Subject	Training Activity	Planned Date	Comments
Development	Workshop on promotion of	Two meetings	The workshops will be run by
of financial	export of Israeli technologies to	by the end of	a mitigation and financing
mechanisms	developing countries	2016	expert who is a consultant to
to incentivize			the ClimaSouth program of
investments in			the European Union.
energy efficiency			Participants: representatives
			of Israeli cleantech
			companies, financial
			institutions, representatives
			of government, industry and
			civil society

TRAINING PROGRAM

Round table on the new emissions trading mechanisms under the Paris Agreement and their implications for Israel	Subject	Training Activity	Planned Date	Comments
under the Paris Agreement and their implications for Israel Took place in gradience: regulators on the subject (MoEP, Energy and Economy) and other stakeholders with the Bavarian Environment Agency Technical instruction course (theoretical and practical) in Germany on the use of natural refrigerants Understanding of the European regulations on F gases Understanding of the European under the implement and their implications for Israel audience: professionals that will be involved in constructing the emissions reduction scenarios Target audience: regulators on the subject (MoEP, Energy and Economy) and other stakeholders within the framework of a project with the Bavarian Environment Agency Technical instruction course (theoretical and practical) in Germany on the use of natural refrigerants Understanding of the European regulations on F gases Understanding of the European regulators on F gases Union. Target audience: regulators or reductions or reductions or reduction scenarios Union. Target audience: regulators or reductions or reductions or reductions or reductions or the subject with the subject with the subject were selected representatives who deal with the subject were selected regulators from three countries in the European Union. Target audience: redevant government ministries, Air Conditioning and Heating Contractors Association, the	Carbon market	Round table on the new	September 26,	The round table was
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Subject	Training Activity	Planned Date	Comments
Integration of	Workshop, in Israel and abroad,	2017	Target audience: relevant
renewable energy	with the participation of experts		government ministries,
in the grid	from countries with a large		green energy companies and
	percentage of renewable energy		organizations, representatives
	integration in the grid (California,		of civil society, etc.
	Germany, or others)		



