# Climate actions

With its 5 per cent share. Russia is the fourth-largest emitter of scope and coverage. Yet, and despite somewhat different dogreenhouse gases in the world (fifth-largest if the EU is consid- mestic interpretations of the latter, WWF projects that the gap ered as one). Russia is also the second-largest exporter of oil between GHG emissions with and without LULUFC will dramatiand the largest exporter of natural gas. The country is a key player in international climate diplomacy, is an Annex 1 party to the forestry practices remain unchanged. UNFCCC and the Kyoto Protocol, and in 2016 it signed (though has not yet ratified) the Paris Agreement.

After a sharp decline following the breakup of the Soviet Union, Russia's GHG emissions grew steadily in the early to middle of their 1990 level (excluding LULUCF). In line with its Climate overall slowing economic growth as well as the initial effects of commercial forestry, and the sink function of LULUCF was reinforced by the reduction in the area of cultivated land and the smaller-scale use of fertilisers.

contributed 45 per cent of Russia's GHG emissions including LU- 2009 governmental order set the targets of 2.5 per cent electricity LUCF (36 per cent excluding LULUCF). The gas and oil sector by 2015 and 4.5 per cent by 2020 to be produced from renewable are the principal sources of methane emissions in Russia, but sources (in 2013, the 2020 target was reduced to 2.5 per cent). both the share and the absolute value of this contribution depend A series of tenders have been run to attract investments, though on the approach to calculating the CO2 equivalent of methane: the worsening economic conditions and regulatory gaps later led the future choice of one of the currently debated technical targets to some cancellations from the investors' side. Yet the construcof minimizing the average impact on the global climate may result tion and operation of the first new facilities began, and further in an order-of-magnitude difference in conversion factors, thus investment plans were announced and are increasingly included putting the share of methane anywhere between 25 and 75 per in national and regional development plans. The 2016 Territorial cent of Russia's GHG emissions.

sions to 70-75 per cent of the 1990 level, thus firmly decoupling 2030 period. Yet overall investments and generation capacities them from continuing economic growth. As Russia accounts for remain limited (70 MW or 0.03 per cent of total installed capacity 25 per cent of the world's forest resources, including 70 per cent in 2016, not counting large hydropower which covers 20 per cent of boreal forests, the target is made "subject to the maximum" and is on the rise), and - combined with the abundance of natupossible account of the absorbing capacity of forests" and ex- ral gas on the market - point to modest near-future prospects of plicitly includes LULUCF emissions and absorption in the INDC renewable energy in Russia.

Implementing the Energy Efficiency law, the State Programme for Energy Efficiency and Power Industry Development set a target to reduce energy intensity of the GDP by 13.5 per cent by 2020 from the 2007 level. (This is lower than the 40 per cent re-2000s, then fluctuated at 50-55 per cent (including land use, duction target initially set for the same period; for comparison, the land-use change and forestry - LULUCF) or 69-72 per cent draft Energy Strategy until 2035 aims to reduce energy intensity by 6 per cent by 2020 and 37 per cent over the 2021-2035 period Doctrine and the commitment made under the Kyoto Protocol, compared to 2014.) The programme was initially translated into in 2013 Russia adopted the domestic target of keeping GHG multiple state-funded subnational programmes that have had a emissions in 2020 at 75 per cent of their 1990 level. The recent slow start, and currently over 90 per cent of the required funding slowing down of the growth of GHG emissions is also due to the is expected to originate from extra-budgetary sources. The deadlines for several measures such as meter installations and a ban improved energy efficiency. WWF estimates that between 2000 on incandescent light bulbs have been extended. Due to new and 2013 the carbon intensity of the Russian economy dropped exceptions, the legislation on associated petroleum gas flaring by 20 per cent. The sectoral breakdown of emissions has remained relatively stable, with the energy-related share steadily per cent that is allowed from the start), and the exempted "small" exceeding 80 per cent. The contribution of motor transport and and "new" oil fields further account for approximately 30-40 per the waste sector has grown since the 1990s. Forests have continuously absorbed GHG due to the dramatic two-fold decline in cise metering and the lack of enforcement on large state-owned

Renewable energy has for years been present in Russia (Kamchatka geothermal and Kola tidal power plants), and in 2010 According to the submission to the UNFCCC, in 2014 methane Russia's first solar power plant was opened near Belgorod. The Planning Scheme for the Energy Sector lists 15 large (above 100 MW) wind power projects of 4.5 GW in total (down from 7.2 GW In its INDC, Russia announced the 2030 target to reduce emis- envisaged in the 2013 edition) to be constructed in the 2017-

# Russian scorecard



### Mitigation commitment:

Emissions reduction

Decoupling from population growth

Decoupling from economic growth

Renewable energy

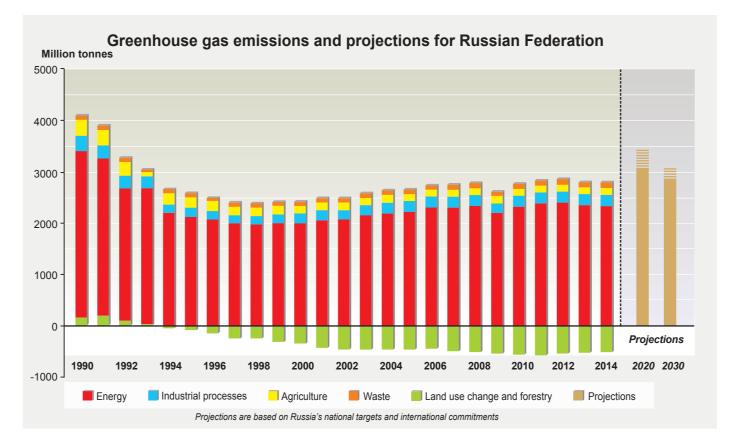
Adaptation action

# National climate policy actors

Policy leadership: Ministry of Economic Development, Ministry of Natural Resources and Ecology, Ministry of

UNFCCC focal point: Roshydromet\* GHG inventory and projections: Roshydromet\* Carbon units register: Russian Information Fund\*

Inter-agency / inter-sectoral coordination: working groups under the Administration of the President and the Ministry of Economic Development



# Climate finance

GHG reduction quota was exhausted.)

Russia has engaged in a number of technical assistance projects in the field of climate change, many of which in cooperation with UN agencies. UNDP, attracting funds from the Global Environment Facility and bilateral donors, and matched from Russia's federal and local budgets, has had one of the largest climate portfolios (about US \$300 million since 2009). The organisation has helped Russian companies access international climate financing, supported energy-efficient technologies and practices in key economic sectors and regions, including the ongoing project to reduce GHG emissions from motor transport, and promoted low-carbon transport in Kazan and Kaliningrad. WHO has cooperated with the Ministry of Health on adaptation to climate impacts on health in the Archangelsk region. UNIDO facilitated technology transfer to reduce the consumption of hydrochlorofluorocarbons and, together with EBRD, contributed to the transformation of the market for industrial energy efficiency.

EBRD, IFC and the World Bank have implemented a number of projects to promote energy efficiency and reduce GHG emissions in various sectors, and to increase the scale of private involvement in renewable energy. The World Bank with Carbon Fund Borrower helped Rosset reduce flaring as part of the Extractive Industries Transparency Initiative project, and currently administers a loan for the technological modernisation of Roshydromet including the management of climate data.

Among bilateral projects in the same spirit, the US supported the establishment in 2011 of a WMO-affiliated atmospheric observatory in Tiksi, Yakutia. Most recently the number of bilateral cooperation projects and programmes has decreased, and political sanctions have resulted in a de facto termination of many bilateral contacts.

Russia primarily counts on own financial resources and invest- As a donor, Russia has not provided funds to developing counment of Russian capital for climate action, although foreign investments are attracted too (for instance, Chinese capital on build their capacities in climate observation and research by Russia's alternative energy market). Between 2010 and 2012 providing training opportunities at Russian specialised academic Russia generated 150 application for investment projects under institutions. In 2015 Russia signed an agreement with UNDP to the Kyoto protocol, with a total GHG reduction potential of 380 establish a US \$25 million joint trust fund to finance a variety million tonnes of CO2 equivalent, of which 108 projects were approved by the Ministry of Economic Development. (In 2012 the climate change) in developing countries, with the focus on former Soviet republics, and announced the intention to provide a US \$5 million voluntary contribution to the Green Climate Fund.

### Sources of information for the scorecard

Russian official publications, strategies, plans, legal and informational

Russian climate-related publications and data, including the 6th national communication to UNFCCC, the 2<sup>nd</sup> assessment report on climate change and its consequences in the territory of the Russian Federation, and data submitted to UNFCCC

Publications, materials and information of WWF Russia, EU Clima East, the World Bank, UNDP, the Green Climate Fund, ICTSD, Greenpeace, Russian and foreign energy companies, mass media, news agencies

Interviews with experts and stakeholders, Zoï intelligence and expertise

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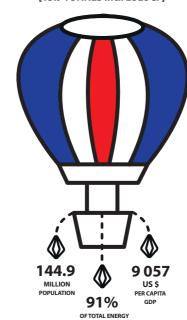


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# RUSSIA **CLIMATE FACTS AND POLICY**

## 2812 MILLION tCO2e [2,299 MILLION incl. LULUCF]

**19.4** TONNES PER CAPITA [15.9 TONNES incl. LULUCF]



Sources: 2015 national GHG inventory data submitted to UNFCCC. World Development Indicators of the World Bank http://data.worldbank.org/indicator

# **POLICIES AND PROCESSES**

Concept of long-term socioeconomic development National security strategy

Climate doctrine and action plan

Concept of carbon regulation law (under development)

Energy strategy, energy efficiency law, state programme for energy efficiency and power industry development, regulations for renewable energy

Other sectoral and regional programmes, plans and legislation

Corporate programmes on climate-friendly and sustainable development

#### 2020 targets

Pledge at UNFCCC COP 15 to keep GHG emissions at 15–25 per cent below 1990 level National target to keep GHG emissions at 75 per cent of the 1990 level Target to reduce GDP energy intensity by 13.5 per cent by 2020 compared to the 2007 level Target to increase share of alternative energy (sun, wind, small hydro) to 2.5 per cent by 2020

# 2030 targets and INDCs

### Mitigation target

Base year: 1990

Conditional 2030 target: 70-75 per cent economy-wide reduction compared to base year, subject to the maximum possible accounting of the absorption capacity of forests

Not defined in INDC; national assessments and communications to UNFCCC highlight i.a. the production and use of energy, construction, cultivation of crops, management of forest and peat fires, public health and

# **CLIMATE ACTIONS**

Total GHG emissions in 2014 at 29-44 per cent (excluding / including LULUCF) below 1990 level

Significant carbon sequestration by forests and land use

Improving energy and carbon efficiency

National carbon units register operational since 2006 Regular GHG inventory and emissions reporting to UNFCCC Corporate MRV system to be established by 2017–2018

Active participation in international climate research

# **CLIMATE FINANCE**

Primarily domestic financing of climate policy actions

Limited Russian and foreign private investments (corporate programmes, renewable energy)

108 applications for investment projects approved under the Kyoto protocol between 2010 and 2012 Technical assistance projects with the UN, development banks, international financing institutions

Building climate research capacities of developing countries

US \$25 million trust fund with UNDP for sustainable development in developing countries (focus on former Soviet republics)

Intention announced in 2015 to provide US \$5 million to the Green Climate Fund

<sup>\*</sup> under the Ministry of Natural Resources and Ecology



The principal climate policy actors within the government are the Ministry of Economic Development and the Ministry of Natural Resources and Ecology (together with the subordinated Russian Hydrometeorological Service). The Ministry of Energy oversees

climate-related energy policies.

The Inter-agency Working Group on Climate Change and Sustainable Development under the Administration of the President supports the implementation of the Climate Doctrine and coordinates a wide range of international efforts including those related to the BRICS and the G20. The Ministry of Economic Development hosts the Inter-agency Working Group on Economic Aspects of Environmental Protection and the Regulation of Greenhouse Gas Emissions, which serves as a policy advice and consensus-building platform between the government and business on the future of carbon regulation.

Impacts of climate change

Heat, droughts, pests

Part of the Ministry of Economy working group is the influential Business Russia association. The environmental committee of the Russian Union of Industrialists and Entrepreneurs is also active in climate policy debate. The Climate Partnership of Russia comprises large enterprises favouring green development and carbon transparency and several Russian companies are members of the UK-based Carbon Disclosure Project (CDB).

In spite of mounting pressures on Russian civil society, environmental NGOs such as WWF Russia, Greenpeace, the Socio-Ecological Union and Ecopolis are active in the climate field and play a notable role in forming Russia's climate policy.

Russia's academic community is active in international climate research cooperation, and has participated in a number of European programmes in the Arctic. Within the framework of the Council for Hydrometeorology of the Commonwealth of Independent States, Russia hosts the North-Eurasian Climate Centre.

# Policies and institutions

sia paid relatively little attention to climate matters. In 2008, the vision of climate change and actions to address it.

government requested a concept of a carbon regulation law by the associated petroleum gas flaring during oil extraction, and 2018 to outline practical measures for future carbon regulation. in 2012 through 2013 a legal basis was established for boosting A draft of the national low-carbon development strategy exists, the renewable energy market (solar, wind, and small-scale hythough so far lacks official standing, and - despite opposition dropower). from parts of the business community - carbon regulation is increasingly seen as a means of promoting much-needed innovation and modernisation. At present, mitigation is guided by the government's 2014 action plan which i.a. requires the establishtors, as well as in development plans of major state-owned and ment of a system for emission monitoring, reporting and verifica- private companies and industrial groups. tion (MRV) at the corporate level by 2017 (for large companies) through 2018 (for smaller enterprises). Several Russian regions have adopted climate change mitigation and sustainable devel- other parts of the world and that vary throughout the country, opment strategies and action plans (sustainable transport in Ta-Russia's wide-ranging adaptation priorities include the productarstan and Kaliningrad and sustainable forest management in tion and use of energy; construction of buildings and roads (in Altai region, for example).

for reducing GHG emissions. The 2009 Energy Efficiency Law was prepared by Saint-Petersburg.

Due to pressing challenges in other domains, strong reliance on introduced the framework for specific measures including enerfossil fuel and widespread climate scepticism, until recently Rusbulbs, the setting of special tariffs, tax breaks and regional pro-Concept of Long-term Socio-economic Development until 2020 grammes. (The legislation, however, covers only state-funded addressed climate risks and set long-term priorities for mitigation organisations accounting for 12 per cent of total energy conand adaptation, and the 2009 and 2015 editions of the National sumption, and requires a substantial amount of sub-legislation.) Security Strategy mentioned climate change as a security threat. In 2013 the State Programme for Energy Efficiency and Pow-The 2009 Climate Doctrine presented Russia's comprehensive er Industry Development until 2020 replaced the revised State Programme for Energy Saving and Energy Efficiency, although due to economic stagnation budget support was substantially Following the 2015 UN climate change conference in Paris, the cut. Since 2012 the government introduced a 5 per cent limit to

> Sector-specific measures to reduce GHG emissions are also included in state programmes and policies of other economic sec-

Facing climate changes that are more pronounced than in many particular in areas with thawing permafrost); cultivation of crops; management of forest and peat fires; public health; and impacts Russia is one of the most energy-intensive countries in the in the Arctic. Adaptation was not included in Russia's INDC, but world, and energy efficiency and savings are seen as powerful a national adaptation plan is expected to be drawn by 2018. Ecomitigation measures. The Energy Strategy until 2030 (being resystem adaptation is part of the revised National Biodiversity vised to extend to 2035) defines measures and sectoral targets 

Conservation Strategy. The first subnational adaptation strategy

