



SOUTH AFRICAN NATIONAL SURVEY OF RESEARCH AND EXPERIMENTAL DEVELOPMENT

GREEN R&D at a glance 2015/16



Green R&D* is focused on new or significantly improved products and services that will lead to a reduction in environmental impact and the optimisation of resources that leads to sustainable development.



The potential for employment creation in agriculture, biogas, water treatment, power generation and bio-composites offers tremendous opportunities for social and economic development.



South African industry has a long history of involvement in green trade through motor vehicle equipment manufacture, environment and agricultural research, mining activities and energy generation.

* Green R&D includes research and experimental development in areas focused on sustainability of natural resources, environmental impact, animal and plant science, energy research, economic impact, sustainable development, mobility and engineering sciences.

FACT SHEET NO. 11

SINCE 2010/11 THE SIZE AND VALUE OF THE SOUTH AFRICAN GREEN ECONOMY HAS BEEN INCREASING



IN THE 2015/16 R&D SURVEY, INVESTMENT IN GREEN R&D ACTIVITIES

ACCOUNTED FOR **R 8.230 BILLION**

WHICH WAS **0.20% OF GDP**

THE SIZE OF GREEN R&D INVESTMENT, RELATIVE TO GROSS DOMESTIC EXPENDITURE ON R&D (GERD) IN 2015/16 WAS **25.45%**



THE PUBLIC SECTOR

(GOVERNMENT, HIGHER EDUCATION AND SCIENCE COUNCILS)

ACCOUNT FOR **58.8%** OF ALL GREEN R&D

WHILE THE PRIVATE SECTOR

(BUSINESS AND NOT-FOR-PROFIT ORGANISATIONS)

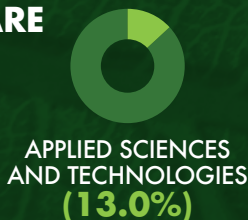
PERFORMS **41.2%** OF RESEARCH ACTIVITY



THE RATE OF INCREASE IN PRIVATE SECTOR INVESTMENT IN GREEN R&D HAS DEMONSTRATED AN AVERAGE ANNUAL INCREASE OF **36.5%**



THE LARGEST SHARE OF GREEN R&D EXPENDITURE IN SA WAS DEVOTED TO



WITHIN THE **PUBLIC SECTOR** THE **LARGEST SHARE OF GREEN R&D EXPENDITURE** WAS **DEVOTED TO**



AGRICULTURAL SCIENCES
(35.0%)



THE SOCIAL SCIENCES
(25.5%)

GREEN R&D IS **PREDOMINANTLY FUNDED** BY **INTERNAL SOURCES** WITHIN THE **PRIVATE SECTOR** (**86.3%**);



WHILE IN THE **PUBLIC SECTOR** **GREEN R&D ACTIVITIES** ARE **CHIEFLY FUNDED** BY THE **GOVERNMENT** (**84.9%**)

THE MAJORITY OF **R&D EXPENDITURE** IN THE **GREEN ECONOMY** WAS FOR



APPLIED RESEARCH
(57.2%)

BETWEEN **2014/15** AND **2015/16**, ACROSS **ALL ECONOMIC SECTORS** THERE WAS A **40,4% INCREASE** IN **GREEN R&D EXPENDITURE ON APPLIED SCIENCES**



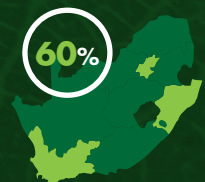
IN THE **2015/16 R&D SURVEY**, A **LARGER SHARE OF GREEN R&D EXPENDITURE** IN THE **PUBLIC SECTOR** WAS **DEVOTED TO BASIC RESEARCH** (**34.8%**) COMPARED TO THE **PRIVATE SECTOR** (**3.3%**)



PUBLIC SECTOR
(34.8%)

PRIVATE SECTOR
(3.3%)

GEOGRAPHICALLY, **60% OF ALL GREEN ECONOMY ACTIVITIES** ARE CONDUCTED IN **GAUTENG, THE WESTERN CAPE AND KWAZULU-NATAL PROVINCES**



BEHIND THE NUMBERS

The annual South African National Survey of Research and Experimental Development is conducted by the Centre for Science, Technology and Innovation Indicators (CeSTII) at the Human Sciences Research Council (HSRC), on behalf of the Department of Science and Technology (DST). R&D statistics are collected in terms of the Statistics Act No. 6 of 1999, and are quality assured by Statistics South Africa.

Data collected through the survey, and its historic data series, helps to inform decision-makers on investment planning, policy making, advocacy, and research in South Africa. Data streams also add to benchmarking and performance comparisons with our international counterparts.

Access previous survey reports:

<http://www.hsrc.ac.za/en/departments/cestii/reports-cestii>

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