

Federal Office for Economic Affairs and Export Control

Summary report 2018

Our remit, responsibilities and results

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Foreword

Dear Readers,

2018 brought with it new tasks and new challenges for the Federal Office of Economics and Export Control (BAFA). In addition to carrying out the tasks that BAFA has performed on behalf of the Federal Ministry for Economic Affairs for many years, we also faced numerous new developments:

The political dynamics of export control were marked in particular by the altered relationship between the US and Iran, the Yemen conflict and events relating to Saudi Arabia. These developments had a direct impact on the work of BAFA in the area of licensing procedures. An information day was held under the Special Compensation Scheme for the first time in 2018 for interested applicants. During this event, we provided information about new developments designed to apply restrictions to energy-intensive industry according to the Renewable Energy Sources Act.

The BAFA Energy Day in October 2018 was another first: This information day included a political panel discussion and numerous expert forums on BAFA tasks in the energy sector. It was so successful that we want to make it a permanent event.

Other innovations included the introduction of a fully electronic application procedure and the establishment

of an additional First-Level-Hotline with significantly extended service times in the area of "Heating with renewable energy".

Meanwhile, BAFA is also facing some changes within the organisation: For example, BAFA is now the chief authority in the "IT consolidation" business area of the Federal Ministry for Economic Affairs and Energy. The aim is to consolidate and standardise information technology nationwide to ensure efficient, stable and cost-effective IT operations. Completion of the process is scheduled for 2021.

I would like to thank all BAFA employees for the active engagement and commitment they have shown in tackling multiple tasks and new challenges. I am also grateful to our partners in the fields of industry, science and policymaking for their reliable cooperation. I hope you will find this year's report to be of interest. Yours

Andreas Obersteller

President of the Federal Office of Economics and Export Control

Foreign trade

Foreign trade is synonymous with growth, prosperity and employment in Germany. Nearly one in four jobs in Germany relies either directly or indirectly on exports.



Heinz Jürgen Hartmann, Director-General for Export Control (Technology) "The challenge is to strike a balance between Germany's security interests on the one hand and our economic interests on the other."

Georg Pietsch,

Director-General for Export Control (Procedures) "State export control can only be effective if all parties consider the controls to be necessary and support them with all means at their disposal."



22/23 March

Twelfth Export Control Day with the theme "Challenges in Export Control" on 22/23 March in Berlin

As of 12 May

As of 12 May: Control of imports of aluminium products from third countries

6 December

Tenth anniversary of the "Export Control Information Day" on 6 December in Frankfurt am Main

Export control

With continued globalisation and an escalation in global crises once again in 2018, all export control stakeholders must be able to adapt quickly to changing situations and respond appropriately. Applicants are interested in receiving long-term confirmation that they are able to supply goods, especially to recipients who are supposedly non sensitive. At the same time however, new issues are constantly arising, due to the emergence of incendiary conflicts and fresh trouble spots in an increasingly uncertain and sometimes obscure security landscape relating to final destination and the end use of goods. Given these conflicting demands, the information supplied by BAFA (especially on establishing effective export control programmes (ICPs) in companies) and the support it provides in relation to evaluating foreign trade and application procedures are crucial. For this reason, BAFA expanded and updated its information services in 2018, to the importance of ICPs in numerous information events.

In order to help companies with internal export control, BAFA has fundamentally revised and updated the leaflet "Internal Compliance Programmes (ICP)".

Not only companies, but also universities and research institutions face the risk of unintentionally promoting the proliferation of weapons of mass destruction affects. With this in mind, BAFA has launched an initiative aimed at raising awareness and identifying proliferation-sensitive inquiries from seemingly unsuspicious foreign institutes. It has also held several talks on the topic and participated in numerous information events. In addition, BAFA has provided information, together with representatives of the US export control authorities, on the status of US export control reform as well as on recent developments in export control policy.

At national level, BAFA provides expertise to the Federal Ministry for Economic Affairs and Energy and the Federal Foreign Office. It also works closely with other ministries and the investigating, customs and monitoring authorities. A close and confidential relationship also exists with the security authorities such as the Federal Intelligence Service and the Federal Office for the Protection of the Constitution. BAFA is furthermore responsible for the monitoring and control of companies and facilities involved in the handling of war weapons and, since 1 September 2018, for granting licences for handling certain deactivated war weapons.

To optimise internal procedures and introduce digital communication, the project "Electronic War Weapons Control Book" ("elektronisches Kriegswaffenbuch") was continued in close cooperation with the companies and institutions monitored. The project currently focuses on establishing a database for inventory reports to be submitted semi-annually.

Area of focus: Application procedure and simplified procedures

Approximately 6,300 companies, mostly from the SME sector, submitted over 48,000 licence applications and queries to BAFA. The value of export projects authorised under BAFA's export control amounted to approximately 22.3 billion euros in 2018. Rejected applications accounted for a total value of approximately 150.7 million euros.

Communications between industry and BAFA were almost all fully automated and carried out via the ELAN-K2 portal, which has been upgraded in line with the latest IT developments.

Apart from the optimisation and expediting of application procedures, simplified procedures play a crucial role in industry in the form of general licences (*"Allgemeine Genehmigungen"*) and global licences (*"Sammelgenehmigungen"*). The general licences granted by BAFA (licences that can be used by the companies on their own responsibility once they have registered for their use) are especially important, since no application procedure is required for exports that have been generally approved. In 2018, BAFA updated the General Licences and expanded the scope of application as far as possible without posing a risk to export control.

BAFA also responded in 2018 to the increased interest shown by economic operators in global licences by developing a number of other types of global licences. These include, in particular, collective licenses for project and end use-related technology transfer, for intra-group technology transfer and for enabling mobile working of employees in foreign assignments. A new version of the leaflet *"Sammelgenehmigungen für Dual-Use-Güter"* (Global Licences for Dual-Use Goods), which explains these new types of licences in particular, completed the initiative.

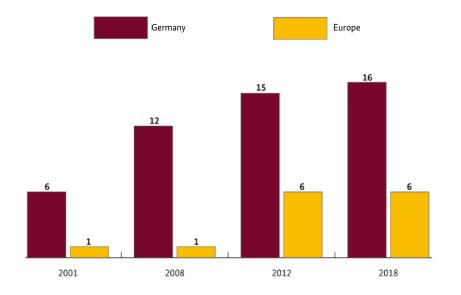
BAFA's information sources/predictability through transparency

BAFA once again provided assistance in various ways and expanded the range of available information services in 2018.

In addition to the leaflets on internal compliance as well as global licenses for dual-use goods and the leaflet "*Optimierte Antragstellung*" (Optimised Application Procedure), the basic introductory leaflet "Exportkontrolle und das BAFA" (Export Control and BAFA) was updated.

This publication initiative was further accompanied in 2018 by the monthly newsletter and by the news service *"Aktuelles zur Außenwirtschaft"* (Foreign trade news) on BAFA's homepage. In addition, BAFA continued to offer telephone hotline services in four areas: licence applications (*"Infostelle Antragsauskunft"*), the electronic application portal (*"Infostelle ELAN-K2"*), sanctions against Russia and goods-related questions on the Iran embargo.





HADDEX

The Handbook of German Export Control (HADDEX), published by BAFA in association with the publishing body Bundesanzeiger Verlags GmbH was adapted in 2018 to reflect legislative changes. These modifications ensure that HADDEX, which is also available online, remains a useful, up-to-date tool for the mainly small and medium-sized exporting companies that need to implement export controls.



Information Day on Export Control

The tenth Information Day on Export Control was held in Frankfurt on 6 December 2018. The Federal Office of Economics and Export Control (BAFA) welcomed more than 550 interested participants from the world of export control as well as representatives of the German Customs Investigations Bureau and the US Consulate.

Export Control Day

Export Control Day, now in its twelfth year, took place on 22 and 23 March 2018 in Berlin. The event is organised by BAFA together with the Foreign Trade Law Centre (ZAR) of the University of Münster.

Other information events

BAFA continued to collaborate with various Chambers of Industry and Commerce throughout Germany in 2018 by hosting joint information events on current issues relating to export control legislation. The organisation also took part in information events on export control for decision-makers in companies.

To complete its activities in this sphere, BAFA participated in working groups organised by the Federation of Germany Industry (BDI) and Federation of the German Security and Defence Industry (BDSV). It also attended information events and sessions hosted by various trade associations (including SPECTARIS, VDA and VDMA).

In addition, information events on US export control law were conducted in cooperation with US representatives. Further cooperation was also developed with research institutions on their handling of security-relevant research as well as procedures in connection with technology transfers.

Since 2012, BAFA has run the "Wiesbaden Process" on behalf of the Federal Foreign Office. This is a platform that brings together representatives from all over the world to discuss current export control challenges and develop appropriate solutions for implementing UN Security Council Resolution 1540 (2004). For this purpose, two regional events in India and South Korea were initiated in 2018 together with the 1540 Committee of the Security Council and the United Nations Office for Disarmament Affairs.

INTERNATIONAL ACTIVITIES IN 2018

European Union

The intensive consultations held during the meetings of the "Dual-Use" Council working party on amending the EC Dual-Use Regulation were of particular significance. These meetings gathered momentum again this year. BAFA is cloesly involved in these discussions and has sought to strengthen measures aimed at harmonising EU member states' export control systems and expand existing control systems appropriately without creating unnecessary administrative burdens either for companies and BAFA.

In 2018, BAFA also played an active role in an EU sub-working group specially set up to develop common EU-wide ICP standards. In doing so, it shared the knowledge gleaned from its many exchanges with companies over the years.

In the area of military equipment, BAFA was closely involved in the harmonisation of national standards for procedural simplifications at European level. The state agency took part in an evaluation of the effectiveness of the EU directive on transfers of defence-related products within the Community and the general licences granted on the basis of this directive with this aim in mind. BAFA's engagement in this area has been enhanced by its participation in the LoI process, an informal working group of several EU member states in the area of military equipment. The European Union's evaluation of the Firearms Regulation also got underway. BAFA is playing a significant role in this process. To complete its activities in the sphere of defence-related goods at European level, BAFA also participated in the sessions organised by the COARM Working Group, which seeks to harmonise licensing practices in the member states.

BAFA also took part in the technical meeting of experts of the Alliance for Torture-Free Trade. This Alliance is a joint initiative of the European Union, Argentina and Mongolia and aims to end the trade in goods used to carry out the death penalty and torture.

In the area of trade restrictions, 2018 was dominated by the US announcement of its withdrawal from the Vienna Nuclear Agreement with Iran and that it would enforce "secondary sanctions" against German companies. This development, along with the reactivation of the Blocking Statute by the European Union, led to a renewed and increased need for information in industry. This need was addressed with the publication of detailed information on the Blocking Statute and with announcements made by the US government.

BAFA also provided legal and technical expertise to the Federal Ministry for Economic Affairs and Energy (BMWi) this year for the further development of the European Union's various embargo regulations.

EU outreach projects

BAFA is currently implementing five partnership projects in the area of export control. In 2018, it organised a total of 47 events with partner countries. The projects were based on international cooperation (Africa, Eastern and South Eastern Europe, South America and the Caribbean).

EU Council Decision 2017/915/CFSP mandated BAFA to implement the second ATT outreach project. This EU project, also funded by the Federal Foreign Office, is continuing the first ATT project, which has been implemented since 2014 and is due to run for another three years.

As a result of EU Council Decision 2018/101/CFSP, BAFA was also mandated with implementing the COARM IV project on the promotion of effective arms export control.

In addition to projects focusing on military equipment, BAFA implements programmes dealing with dual-use goods as part of its outreach activities. Since 2015, BAFA has also regularly carried out national outreach projects on behalf of the Federal Foreign Office. For example, since 2018, BAFA has implemented a national project on behalf of the Federal Foreign Office to assist states in the Southeast Asian region to implement UN embargo measures.

INTERNATIONALE EXPORTKONTROLLREGIME

For over 20 years, various international export control regimes have been in existence. These seek to prevent the "destabilising accumulation" of conventional weapons and the proliferation of weapons of mass destruction and their delivery systems.

Australia Group

At this year's AG meetings, no new export controls were adopted, nor were any content or editorial changes made to existing list entries. Nevertheless, a large number of technical proposals were discussed, for example on the topic of salt compounds as precursors for chemical nerve agents or the possible listing of new nerve agents such as Novichok.

In the area of procedures, BAFA presented its measures to raise the awareness of research institutions and on the importance of export control. In particular, it emphasised the role played by export controls in preventing unintentional proliferation.

Missile Technology Control Regime (MTCR)

The MTCR technical experts met twice in 2018. In addition to concrete suggestions on the existing entries in the MTCR checklist, both general and future topics were discussed and advanced. The MTCR control list has been modified with respect to engines and their components to include so-called detonation engines. Furthermore, a consensus has been reached to extend the controls on fuels and related chemical constituents. Multiple list entries were also editorially revised in 2018.

In 2018, the MTCR partner countries continued their fruitful dialogue on export control practices in the area of procedures, laying the groundwork for successful cooperation over the next few years. There is a continued focus on ITT (intangible technology transfer) and the implementation of corresponding outreach activities in relation to academia and industry. In this context, BAFA has been mandated to produce a booklet on ITT in order to raise awareness in industry and academia about export control restrictions in the area of intangible technology transfer.

Nuclear Suppliers Group (NSG)

The NSG enjoyed lively exchanges at its 2018 plenary session and maintained its focus on technical topics. It also adopted a series of proposals to further clarify and update the NSG control lists.

The technical experts of the Nuclear Suppliers Group continued the discussions held in previous years. Key topics included the negotiations on amending machine tool controls, possibly extending controls on components for nuclear reactors and a discussion on technology control. In 2018, a meeting with the World Association of Nuclear Operators (WANO) and the World Nuclear Association (WNA) was also held as part of the technical meeting of experts.

As part of the Licensing and Enforcement Experts Meeting (LEEM) in 2018, BAFA presented details of its intensified activities in the area of research institutions and their handling of security-related research, as well as procedures relating to technology transfers from a legal, practical and technical perspective.

Wassenaar Arrangement

Most of the proposals in the technical negotiations were aimed at adapting goods controls to the latest technological advances and at harmonizing the scope of controls in order to achieve an agreed, comparable level of security in export control in all member states.

In 2018, an exchange between experts from the Missile Technology Control Regime (MTCR) and the Wassenaar Arrangement also took place for the first time. The aim of the dialogue is to coordinate export controls more closely in the future and avoid duplicate listing of goods by multiple export control regimes.

As part of the General Working Group (GWG), BAFA and the Federal Ministry for Economic Affairs and Energy presented a proposal for the introduction of a new denial check procedure.



Germany

In 2018, BAFA continued to support the relevant ministries with administrative and technical expertise in relation to legal amendments. This particularly included the twelfth amendment to the Foreign Trade and Payments Ordinance (AWV), as well as considerations on the possible consequences of Brexit and how to offset possible new licensing requirements resulting from Great Britain leaving the EU.

Furthermore, licenses were issued in 2018 with a very large number of conditions and subject to compliance checks. BAFA also processed applications for an International Import Certificates.

Chemical Weapons Convention (CWC)

BAFA received annual declarations from approximately 220 companies on the handling of chemicals controlled by the CWC. The state agency checked these declarations and sent the processed declaration data in the form of national declaration to the Organisation for the Prohibition of Chemical Weapons (OPCW) in The Hague. As of January 2019, the declaration data can be transmitted directly to BAFA via the online portal on the BAFA website. The companies currently required to submit declarations were informed in December 2018 on how to use the online portal.



OPCW activities

The OPCW Industry Cluster again discussed the issue of possibly listing the biotechnological production of Discrete Organic Chemicals (DOC).

On the subject of anomalies between the export and import declarations of States Parties, the OPCW 's Technical Secretariat reported so-called transfer discrepancies on the basis of new reviews carried out to identify countryspecific causes.

The working group addressed the new topic of carrying out DOC repeat inspections shortly after the first inspection at a company.

The Fourth Review Conference of the CWC in November 2018 provided an opportunity for an in-depth discussion of core subject areas, including industrial issues. However, the CWC's objectives of evaluating the verification system over the last five years and setting guidelines were only partially met.

The OPCW budget for 2019, which was agreed at the twenty-third session of the Conference of the States Parties, will once again provide for 241 industrial inspections.

OPCW routine inspections

In 2018, the number of industry inspections carried out in Germany amounted to 16 for the first time, bringing the total number of industry inspections performed in the country to 213 since the CWC came into force (1997). All requirements were successfully fulfilled, once again, for the inspections carried out in 2018.

Screening procedures for guest researchers and proliferation related risks

BAFA takes part in the technical classification of certain planned research projects to be carried out by foreign guest researchers.

In these cases, BAFA's technical experts examine to what extent a technology transfer will take place during the scheduled stay in Germany and whether it would amount to a contribution in relation to weapons of mass destruction, their delivery systems or conventional weapon systems.

For an adequate but effective screening to be carried out, a balance must be struck between Germany's security interests and freedom in the field of science and research.

Not surprisingly, given the high level of innovation and importance of technology and science in Germany, the number of screenings carried out are consistently high.

Number of industry inspections in Germany

Investment inspection procedures

The Foreign Trade and Payments Ordinance (AWV) stipulates that an inspection must be carried out when a company is acquired by foreign investors in order to examine whether the acquisition could jeopardize key security interests of the Federal Republic of Germany.

As part of this inspection procedure, BAFA supports the Federal Ministry for Economic Affairs and Energy (BMWi) during the preparation phase, the actual inspection and the evaluation of the company acquisition from an export control perspective.

Cross-border transfer of radioactive substances

BAFA is responsible for all licensing and reporting procedures relating to the cross-border transfer of nuclear material (nuclear fuel and sources) and other radioactive substances, including highly radioactive sources.

Key priority tasks in this field are: control of the end-use of nuclear material; monthly reports to the relevant Länder regulatory bodies on recorded imports and exports; the preparation of relevant statistics.

The listed specialised tasks are administered on behalf of the BMU.

Imports

In the area of textiles, since Regulation (EU) 2017/1836 on restrictive measures entered into force on 11 October 2017, it is prohibited to import, purchase or transfer certain textiles from North Korea, whether or not they originate in North Korea. There were therefore no imports of textiles subject to licensing in 2018 from the Democratic People's Republic of Korea (North Korea).

In the iron and steel sector, a total of 55,047 applications for a surveillance document were submitted in 2018.

On 12 May 2018, the prior surveillance of imports of certain aluminium products originating in non-EU countries was also introduced. In the aluminium sector, a total of 18,093 surveillance documents were applied for in 2018.

Satellite data security

In 2018, BAFA issued 1,914 permits for the distribution of data from high-grade earth remote sensing systems.



Maritime security

There were almost no reports of attacks by pirates on merchant ships in the Horn of Africa during the period under review. However, piracy remains a serious problem for shipping companies. While piracy off the coast of Somalia is now under control apart from a few unsuccessful attacks, the problem has shifted to the west coast of Africa and the waters off Nigeria.

Granting follow-up licences was once again a key task over the past year. Aside from monitoring compliance and prosecuting administrative offences, BAFA carried out its role as supervisory authority in the form of spot checks and on-site inspections.

At international level, BAFA took part in preparations for sessions of the Maritime Safety Committee of the International Maritime Organization (IMO) in order to share its experience of regulating security companies on ships and to continue monitoring developments in tackling piracy.

Energy

BAFA is committed to driving the transition to renewable energy and successfully implementing the Federal Government's climate protection targets.



Frank Dietz,

Director General for Energy

"One of BAFA's core tasks is to implement the measures required to achieve the national energy policy objectives of the Federal Government as part of the energy transition. Our focus is mainly on support programmes designed to increase energy efficiency and further develop energy from renewable sources."

26 February

"First Information Day on the Special Compensation Scheme" with information on caps on the EEG surcharge for the energy-intensive sector on 26 February in Frankfurt am Main.

1 March

Investment grant for innovative climate protection products such as cargo bikes from 1 March

15 October

"First BAFA Energy Day" with information on support programmes for buildings, districts and industry on 15 October in Frankfurt am Main

5 December

Publication on 5 December of the first report on closure and decommissioning of nuclear power plants

31 December

End of BAFA's hard coal subsidies with the closure of the last Prosper-Haniel mine in Bottrop on 31 December

Information day on the Special Compensation Scheme

The aim of the Special Compensation Scheme is to maintain the international competitiveness of beneficiary companies - and above all, to secure jobs in the energyintensive sector, which pays higher electricity prices by comparison with international competitors. The "Information Day on the Special Compensation Scheme" was held on February 26, 2018 in Frankfurt am Main for the first time on this topic. Roughly 550 participants from business, consultancy and administration gathered together at the event, which was completed sold out.

Federal Agency for Energy Efficiency

Since 2009, the BAFA-based Federal Agency for Energy Efficiency has supported the Federal Ministry for Economic Affairs and Energy, which is responsible for energy efficiency at federal level, on all matters relating to energy efficiency and energy saving. One particular area of focus is supporting the implementation processes for the National Action Plan on Energy Efficiency (NAPE). In 2018, this also included project management of the National Top Runner Initiative (NTRI), conceptual support for the Energy Efficiency Strategy for Buildings, in particular concept development for long-term and individual renovation plans and operationalisation of the energy audit strategy.



ENERGY AUDITS

Energy audits in the SME sector

since 2015, BAFA has provided grants on behalf of the Federal Ministry for Economic Affairs and Energy to small and medium-sized enterprises (SMEs) wishing to use an energy audit to obtain information on potential operational energy savings. The evaluation concluded in 2018 determined or predicted an average net saving, thanks to the support programme, of 502 gigawatt-hours per annum for the period from 2015 to 2020 (adjusted for business-as-usual and deadweight effects). This equates to a total annual reduction in CO2 emissions of approximately 195,000 tonnes.

BAFA provided a total of 11.4 million euros in grants for energy audits on SMEs in 2018.

Energy audits for residential buildings

The housing stock in Germany remains in urgent need of energy-efficient modernisation as part of the energy transition (*"Energiewende"*).

One of the measures introduced by the Federal Ministry for Economic Affairs and Energy to increase the effectiveness of the support programme took full effect for the first time in 2018: the extension of support to energy consultants from relevant craft sectors and energy supply companies. Overall, BAFA issued new approvals for a total of 546 experts for subsidised energy audits, including 20 energy suppliers and 177 experts from the craft sector. The individual renovation roadmap (iSFP) developed on behalf of the Federal Ministry for Economic Affairs and Energy also established itself as a consulting tool in the market in 2018. In nearly 20% of the funding cases, energy consultants were already using the iSFP to present the results of their audits in a customer-friendly format. Optimisation of the iSFP towards a more practical approach was initiated in 2018.

The number of grant applications received in 2018 amounted to 8,681, an increase of around 6.5% compared to the previous year. The federal subsidy disbursed by BAFA for energy audits on residential buildings this year amounted to around 5.8 million euros.

Energy audits for non-residential buildings owned by local authorities

Since 2016, BAFA has funded energy audits for non-residential buildings that are owned by local authorities and non-profit organisations. The aim of the funding programme is to make energy audits available to local authorities, municipal undertakings, companies that are majority owned by local authorities, non-profit forms of organisation and recognised religious communities. It also aims to draw the attention of these bodies to economically advantageous investments in energy efficiency.

In 2018, a sum of over 5.9 million euros was approved for 662 energy audits. Over 6.1 million euros were disbursed for 674 audits carried out.

Consultations on energy-conservation contracting

Since the programme was launched in 2015, 95 approvals have been granted to the value of 309,500 euros for con-

tracting projects. In around 70 % of the projects, funding was provided for a general consultation, which provides recommendations on choosing the most appropriate energy-saving model. The programme was wound up at the end of 2018. In 2019, the general consultation is also to be included as eligible for funding ("contracting check") in the energy audit for non-residential buildings owned by local authorities.

ENERGY EFFICIENCY

Measures implemented using the Energy and Climate Fund

The Energy and Climate Fund was used to finance additional measures in the area of international climate and environmental protection.

In 2018, BAFA provided approximately 8 million euros in funding to the "Energy Check" project conducted by the Federation of German Consumer Organisations (vzbv) and the *Länder* consumer organisations. These energy checks are an extension of the energy consultation services offered by the consumer organisations. In almost 21,050 cases, knowledgeable and independent experts were on hand to give private consumers convenient access to the topic of saving energy.

Furthermore, 11 additional projects run by the German Energy Agency (dena) received funding of approximately 4.58 million euros. The projects had multiple aims: increase energy efficiency and improve climate protection in buildings; promote a rational and economical energy supply; use e nergy from renewable sources.

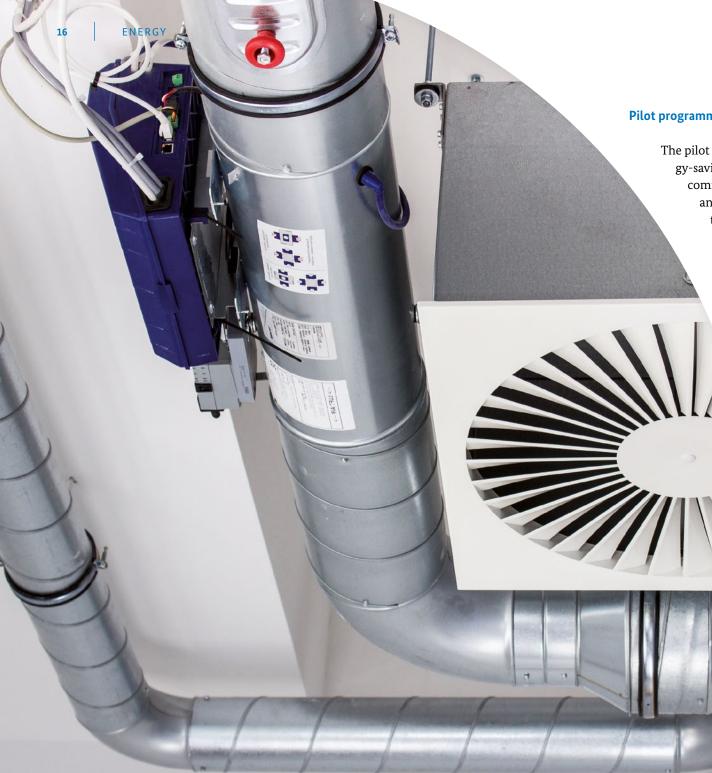
As part of an initiative for SMEs (the "Mittelstandsinitiative

Energiewende" or MIE) designed to boost the energy transition in Germany and agreed between the Federal Ministry for Economic Affairs and Energy, the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety, the Association of German Chambers of Commerce and Industry and the German Confederation of Skilled Crafts, nine projects received funding of approximately 625,000 euros in 2018.

Projects on the economical use of energy and energy efficiency

BAFA supports dena projects and campaigns at national and international level to boost energy efficiency and foster the economical and rational use of energy. In 2018, seven projects valued at 1.89 million euros were funded in areas relating to energy efficiency and renewable energy.

BAFA also supports consultations for private consumers on ways to save energy and use energy from renewable sources. These consultations are organised by the Federation of German Consumer Organisations (vzbv) in 17 consumer organisations. A total of approximately 82,800 consultations took place at the offices of the consumer organisations. There were also approximately 14,000 phone consultations and 1,500 online consultations. BAFA supported the Federation of German Consumer Organisations in 2018 with 6.9 million euros to execute the project.



Pilot programme for energy saving meters

The pilot programme supports the development and testing of energy-saving meters aimed at a broad spectrum of users, as well as their commercialisation. In 2018, a total of 49 applications for testing and development were approved, in addition to 22 applications for marketing energy saving meter solutions. Funding amounting to nearly 4 million euros was disbursed.

Heating optimisation

There was a continued positive response to the heating optimisation support programme in 2018. Total funding of approximately 31.5 million euros was provided for roughly 90,000 pumps and 57,000 additional optimisation measures. The disbursement of funds thus increased by approximately 22% compared to the previous year.

Refrigeration and air-conditioning systems

In 2018, a total of over 51 million euros was approved for 984 efficiency measures implemented on refrigeration and air-conditioning systems and over 25.4 million euros for 431 general measures. Adiabatic evaporative cooling systems and vehicle air conditioning systems are now also eligible for funding. Funding has also been extended to include support for the detailed design of stationary indirect systems (chillers), cooling brine systems and the combination of a cold generator with a plant for the production of renewable energy.

Combined heat and power

In 2018, activities focused on the tender for innovative CHP systems, which was held for the first time on 1 June 2018. This took place in addition to further tendering rounds for new and modernised CHP systems.

In 2018, BAFA issued authorisations for approximately 4,551 CHP plants with a total power output of approximately 720 GWh. A large share of the power output (roughly 441 GWh) is accounted for by existing plants, while the remaining output is generated by new and modernised installations.

Funding in the form of a bonus amount of 80 million euros was also provided for 682 heat supply networks covering a pipeline length of roughly 442 km. A bonus amount of 3 million euros was disbursed for approximately 59 heat storage systems with a capacity of roughly 15,500 m³.

Mini-CHP program

In 2018, BAFA approved a total of 1,019 applications for funding of mini-CHP plants to the value of 3.39 million euros. In addition, grants totalling approximately 2.4 million euros were disbursed for 781 applications containing CHP plants with an overall electric capacity of 5.4 megawatts. Meanwhile, total investment in this area was approximately 25 million euros.

Investment grants according to the Small Series guideline

The Small Series guideline, which came into force in 2018, promotes innovative climate protection technologies that

offer significant potential for climate protection, but have only been produced on a small scale to date. In 2018, some 145 measures were approved under the Small Series guideline with funding of approximately 532,000 euros. This was accompanied by investments totalling approximately 1.9 million euros. The largest share of this amount was accounted for by the acquisition of cargo bikes, with 137 granted licenses.

Generic technologies

The volume of investment spurred by applications that were granted funding currently stands at roughly 784 million euros. Final energy savings of 1,367 GWh annually have thus been achieved. The programme for promoting high-efficiency generic technologies expired on 31 December 2018. Since then, promotion of the use of such technologies has been transferred to the new Federal Ministry for Economic Affairs and Energy programme "Promoting Energy Efficiency and Process Heat from Renewable Energy in Industry - Subsidies and Loans".

Heat supply networks 4.0

In 2018, a total of 65 applications for feasibility studies were approved, with total funding of approx. 6.9 million euros. The first subsidies have already been paid. At present, six applications for establishing a 4.0 heat network system are in process. A heating network system has been under construction since April 2018, following a funding commitment of around 1.2 million euros.

Electric mobility

Since the programme was launched, subsidies amounting to roughly 105 million euros have been granted for the purchase of 58,509 electric vehicles. The portion of vehicles powered by electricity alone amounted to 58%.

Heating with renewable energy

In 2018, BAFA disbursed funds of almost 183 million euros on 48,000 plants, triggering investments in the region of 885 million euros. In total, more than 1.8 million renewable energy systems have been installed with this support over the years.

> In total, nearly 80,000 new funding approvals were issued to the value of over 252 million euros. There was positive growth in the number of applications in the biomass segment in particular, with 38,000 applications received. This is mainly due to the use of innovative biomass plants with condensing or particle separation.

The number of applications rose sharply, and by the end of 2018 was 32% above the previous year's level.

Solar heating plants

In 2018, solar thermal energy again came third in the funding segment comparison, with just under 12,000 subsidised plants. Of these, the most common were those supporting space heating (9,300 installations). Total funding amounted to just under 32 million euros. Investment to the value of approximately 188 million euros was triggered.

Biomass

In the "biomass plant" segment, approximately 17,500 plants received funding. Overall funding amounted to around 69 million euros, triggering total investments of more than 383 million euros.

Heat pumps

In 2018 approximately 18,300 measures were funded, of which roughly 11,700 were new construction projects. Brine-to-water heat pumps (13,197) formed the largest sub-segment. Funding amounted to just under 82 million euros, while the specific investments triggered by this funding came to 312 million euros.





RAW MATERIALS

Energy and raw materials partnerships

In 2018, some 42 new projects were funded, including measures to promote Germany's transition to renewable energy abroad, the establishment of energy dialogues and forums with individual key regions, and cooperation in the area of energy-efficient construction.

The project executors include the German chambers of industry and commerce abroad (AHK), the German Energy Agency and other contractors and executive organisations.

BAFA disbursed funds of approximately 9.84 million euros in this area in 2018.

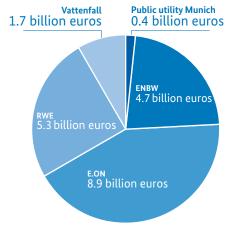
Provisions made for decommissioning nuclear power plants

The operators of nuclear power plants (NPPs) are required by the Act on Transparency on the Cost of Shutting Down and Decommissioning Nuclear Power Plants and the Packaging of Radioactive Waste (*Transparenzgesetz/Transparency Law*) to provide BAFA with an annual overview of provisions made for decommissioning obligations as well as a presentation of available ands. BAFA verifies the information submitted by the operators. The results of this verification are used as the basis of the Federal Government report to the German Bundestag, which is submitted annually in accordance with Section 7 of the Transparency Law (*Transparenzgesetz*). On 5 December 2018, this report was first published as a Bundestag printed paper 19/6223 on the homepage of the German Bundestag.

In total, the operators of the 23 nuclear power plants have made provisions amounting to 21 billion euros for decommissioning obligations as of 31 December 2017.

BAFA's verification process with regard to the declared provisions did not give rise to any objections in 2018. The value of provisions to be drawn down is expected to be approximately 4.3 billion euros for the years 2018 to 2020. The liquid resources for this period are largely available to the energy supply companies directly or in the form of liquid assets.

provisions per energy supply company at December 31, 2017



Promotion of economic development and SMEs

Boosting Germany's growth: BAFA's promotion of economic development and SMEs focuses on making small and medium-sized businesses more competitive.

Ulrich Sattler, Director-General, Promotion of economic development and SMEs:

"The challenges facing German SMEs have increased significantly in recent years as a result of globalisation, digitalisation and the necessary measures implemented for climate protection."



Of 1 September

The funding of digital equipment in intercompany training centres will be extended as of 1 September. BUSINESS DEVELOPMENT

FOREIGN MARKET DEVELOPMENT

Foreign trade fair programme

In 2018, BAFA organised and arranged the Federal Government's participation at 232 trade fairs in 44 countries, with a budget of 44 million euros. Of the trade fairs attended, 108 took place in South, East and Central Asia (49 in China including Hong Kong), 34 in European countries outside the EU, including 27 in Russia; while the Federal Government was represented at 4 trade fairs within the EU. Overall, 5,855 German exhibiting companies thus received support with their economic activities in new growth markets.

Expo 2020 in Dubai, United Arab Emirates

BAFA supports the Federal Ministry for Economic Affairs and Energy with tendering procedures and the planning and setup of the German pavilion at world exhibitions or "expos". In 2018, planning continued for Germany's participation at the next world exhibition to be held in Dubai, from 20 October 2020 to 10 April 2021.

"Energy" export initiative

In 2018, BAFA disbursed some 1.8 million euros for participation at eight foreign trade fairs and two domestic trade fairs. Under the Energy export initiative, a total of 62 business trips, 13 information events, 26 fact-finding trips, 4 webinars and 7 special projects such as technology showcases, innovation seminars and B2B meetings were carried out in 2018.

1 1

Approximately 7.9 million euros were disbursed by BAFA for the business trips and events mentioned. This budget made it possible to fund projects for a total of 79 countries. In addition, BAFA awarded four projects aimed at supporting the export initiative in the area of public relations, creation of target market analyses and analysis of international energy markets. Total funding amounted to approximately 210,000 euros.

SME Market Development Programme

In 2018, BAFA commissioned a total of 103 events for 70 target countries under the Market Development programme. Of these, 62 events took place in the relevant target country: 51 business contact initiation trips, 7 market prospecting trips and 4 services presentations. In total, 41 events were organised in Germany: 19 information events and 22 fact-finding trips. All told, the Market Development Programme accounted for a total spend of some 4.9 million euros in 2018. Every year about 1,000 businesses participate in the programme's projects.

Trade fair programme "Young innovative companies"

In 2018, BAFA used a budget of 2.27 million euros to help 664 young innovative companies take part in 58 trade fairs. The support programme was extended by the Federal Government for another four years until December 31, 2023.

CONSULTATION AND FUNDING MEASURES

INVEST – Venture capital grant

In 2018, the INVEST venture capital grant continued to provide young innovative companies with greater access to private venture capital, thus facilitating the successful financing of market entry and growth stages.

Since the support programme was launched in mid-2013 to 31 December 2018, BAFA has received a total of 6,130 applications from companies and 7,707 applications from investors. To date, 4,844 notifications of funding eligibility have been issued to companies and 6,374 grant approvals to investors, amounting to 102.54 million euros in total funding. Once again, the total value of approved grants rose, from 27.36 million euros in 2017 to 33.07 million euros in 2018.

Business advisory services

In 2018, a total of 16,530 applications received funding. Of these, 3,639 were submitted by young companies, 753 by companies in difficulty and 12,138 by existing companies. Total funding amounted to approximately 31.4 million euros.

SKILLED LABOUR

Vocational training without borders

A total of 2.26 million euros was available for this funding measure in 2018. These funds supported the activities of mobility coaches in 22 Chambers of Crafts, 7 Chambers of Industry and Commerce and 2 independent institutions.

Integrated training

As part of the "Gemeinsam in die Ausbildung" integrated training model project initially offered from 2016 to 2018 by the Otto Benecke foundation with funding of approximately 2.7 million euros, small and medium-sized craft enterprises are to be supported in recruiting trainees from the refugee population and domestic population of disadvantaged young people. To consolidate the success of the project and training achieved so far, the Federal Ministry for Economic Affairs has decided to continue the model project until successful completion of training by participants by the end of 2021.

NETWORK Companies integrate refugees

The "NETWORK Companies integrate refugees" programme is an initiative with approximately 3.6 million euros in funding, run by the Federal Ministry for Economic Affairs from 2016 to 2019 to support and widely promote a knowledge, exchange and engagement platform.

Tailored placement - the right person for the right position

The consultants working on the Tailored placement ("Passgenaue Besetzung") programme are represented throughout Germany in 93 chambers of crafts, chambers of industry and commerce, chambers of the liberal professions and other non-profit business organisations, and can therefore be reached easily on a regional basis. In 2018, the programme received approximately 6.2 million euros in funding, of which roughly 3.1 million was covered but the ECE



Committed to education

Under the heading "Maximise all potential", key areas were added to the qualification strategy implemented by the Alliance for Initial and Further Training, a strategy which has been pursued since January 2016. By April 2019, it will have received a further 1.46 million euros in subsidies.

Inter-company vocational training centres

By the end of 2018, BAFA had received 77 project proposals and applications for funding of 67 inter-company vocational training centres and 10 centres of excellence, with an investment volume of approximately 456 million euros.

In 2018, approximately 17.6 million euros were disbursed for 54 projects carried out in the current year and also for multi-annual projects from previous years. Funding of 15.1 million euros was allocated to projects in inter-company vocational training centres, while 2.5 million euros were provided for centres of excellence.

Welcome guides

The Welcome guides (*Will-kommenslotsen*), who number approximately 180, gradually began working throughout Germany from March 2016. They focus on supporting SMEs in particular with all issues regarding the integration of refugees in training, internships or employment.

In 2018, the welcome guides received 5.6 million euros in funding. They are now represented almost nationwide with 114 ongoing projects in Chambers of Commerce and other economic organisations.

Other measures for securing a supply of skilled labour

In 2018, the Centre of Excellence on securing skilled labour (KOFA) once again received financial support for its activities. This centre aims to raise the awareness of SMEs in relation to the topic of skilled workers, in particular. Funding was also provided to the SchuleWirtschaft network in 2018. In 2018, BAFA could draw on approximately 1.68 million euros for these projects.

FILM AND TECHNOLOGY

German Industrial Film Award

The German Industrial Film Award has been granted by the Federal Ministry for Economic Affairs and Energy since 1968. BAFA is the main authority responsible for the competition. In 2018, the independent jury selected the winners from 228 submissions in the four categories "Most informative films on industry", "Best presented films on industry", "Most innovatively produced films" and "Newcomer films". This year, a jury prize was awarded for the first time.

Wireless microphones

By 31 December 2018, 763 approval decisions had been issued and compensation payments amounting to 1,320,267.28 euros had been paid to those concerned.

VIII)

Film funding

In 2018, 601 applications for certificates, preliminary project certificates and certificates of origin were filed. Of these, 354 were for German films, 246 for international co-productions with German involvement, and 1 for other productions (e.g. commissioned productions),

TRADE AND INDUSTRY

Promotion of craft trades

In connection with the craft sector, funding was provided for two special exhibitions "EXEMPLA" and "INNOVA-TION GEWINNT!" as well as the Federal prize for outstanding innovative achievements in the trade sector at the 70th International Craft Trade Fair (IHM) in Munich. Support was also made available for a national competition for German crafts ("Leistungswettbewerbs des Deutschen Handwerks auf Bundesebene") held in Berlin and for the participation of young high achievers from the craft sector in the "Euroskills" competition in Budapest, Hungary. Under the self-governance project "PerSe - Perspektive Selbstverwaltung", further steps will be taken to strengthen self-governance in the skilled crafts and trades sector to meet requirements. BAFA granted funding for these measures amounting to 1,067,882 euros in 2018.

Innovative shipbuilding

In 2018, BAFA received 40 funding applications. The number of applications received since the support programme began has increased to 504. BAFA disbursed a total of approximately 26.6 million euros to German shipyards in 2018.

Promotion of tourism

In 2018 BAFA continued to provide grants for the project "Introducing the 'Accessible Tourism' ('Reisen für Alle') labelling system in Germany". The United Nations Convention on the rights of persons with disabilities calls for measures ensuring that persons with disabilities enjoy equal access to tourism. In October 2018, the Federal Government also launched the year of German-American friendship ("*Deutschlandjahr USA*"). The aim of the initiative is to promote dialogue, exchange and cooperation, while supporting the development and expansion of networks.

Total funding of 632,579 euros was provided for all projects under this initiative in 2018.

Audit oversight body AOB

The audit oversight body AOB plays an important role in maintaining the quality and professional standards of statutory audits in Germany.



Ralf Bose,

Chief Executive Director of the AOB

"In our national and European activities and in cooperating with our many stakeholders, the political context have been of particular concern. For example, we have analysed both the impact of the upcoming UK exit from the European Union and the introduction of the General Data Protection Regulation on our activities from a variety of perspectives. Based on these analyses, we've reached certain conclusions, implemented measures and adjusted arrangements." In terms of function, the AOB is a supervisory authority, which is technically independent and organisationally integrated into BAFA as a Directorate-General. It is responsible for directly monitoring the activities of auditors who conduct statutory audits of public-interest entities. In Germany, 74 specially registered public accountants and audit firms carry out these audits on publicly listed companies, as well as on banks and insurance companies.

In addition, by exercising public professional oversight of the German Chamber of Public Accountants (WPK), the AOB is indirectly responsible for the quality of statutory audits of all other companies.

Inspections

The AOB conducts inspections of accountants, audit firms and cooperative auditing association that carry out statutory audits of public-interest entities.

In 2018, 29 inspections were arranged. In 2018, the "Inspection" Panel held 13 meetings to discuss 31 inspection procedures and take the appropriate decisions. Conditions were imposed on practices in three inspection procedures in order to remedy deficiencies in the quality system. Furthermore, in 17 inspection procedures the "Inspections" Panel identified concrete evidence of breaches of professional duty in the conduct of statutory audits. Consequently, professional oversight procedures were initiated against one or more members of the profession, and against a practice in one case.

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Professional oversight

The AOB is directly responsible for all operational areas of professional oversight of auditors employed by public-interest entities. It determines what action is to be taken if there is concrete evidence of breaches of professional duty. In 2018, the number of newly initiated professional oversight procedures jumped from 58 (previous year) to 113. Professional oversight procedures were initiated against audit firms for the first time.

The "Enforcement" (professional supervision) Panel met on nine occasions to discuss and adopt AOB professional oversight measures and applications for particular cases. In 2018, four reprimands and three reprimands associated with a fine were enforced. These measures, against a total of seven members of the profession, have been published on the BAFA website in accordance with Section 69 of the WPO (*Wirtschaftsprüferordnung; Act on the Profession of Auditors*) . In ten other cases, a decision was made to impose reprimands that are not yet final. At one of its three meetings in 2018, the Panel Joint Committee reviewed the objections to two reprimands and decided to reject these. The number of cases disposed of (22) in 2018 is higher than in the previous year.

Oversight of the German Chamber of Public Accountants (WPK)

The AOB carries out public professional oversight of the WPK. In doing so, it supervises the WPK to ensure that it carries out its duties in an appropriate, adequate and responsible manner. The decisions of the WPK are ultimately the responsibility of the AOB.

In the year under review, the focus was on continuing to log the processing and decision-making processes within individual departments of the WPK in relation to supervisory processes and also on creating uniform evaluation standards within the professional oversight procedures at the WPK and AOB. As part of its professional oversight of quality control at the WPK, the AOB has reviewed the extent to which quality control procedures and processes contribute to improving audit quality. In 2018, supervisory activities focused on the impact of the German Audit Reform Act (APAReG) on the registration and proposal procedure for quality control auditors, the risk-focused and substantive implementation of quality controls, and the proper resolution of breaches of professional duty.

International collaboration

The AOB has continued to engage in European and international committees as the national authority responsible for international cooperation in the area of auditing oversight and exchanging expertise in 2018. In addition to having its Chief Executive Director chair the Committee of European Auditing Oversight Bodies (CEAOB), the AOB is also represented in the various working groups of the CEAOB and the International Forum of Independent Audit Regulators (IFIAR), where it brings together the national findings and experience gained from inspections and professional oversight. In this context, for example, the AOB has provided input on the CEAOB's non-binding guidelines "Monitoring the fee cap of non-audit services" and the Comment Letter on drafting the revised International Audit Standard ISA 315.

Independence and audit quality are the key topics and focus of auditor oversight worldwide. To this end, exchanges with representatives from the profession and other stakeholders such as regulators and audit committee members were intensified at European level, in particular.

In addition to working with EU auditors, the AOB is also responsible for cooperation with oversight bodies from third countries.

Inside BAFA

The Federal Office of Economics and Export Control (BAFA) plays an active role in implementing structural changes within the public administration sector, interacting with citizens, companies, associations and authorities at home and abroad in a fair and responsible manner.



Dr. Andrea Vater, Director-General, Central Services

"Once again in 2018, the key challenges facing us in implementing successful HR policies were that of providing equal career opportunities, development prospects and a healthy balance between working and family life."

BAFA at a glance:

- 441 women
- 442 men
- 290 permanent civil servants
- 30 trainees
- 18 employees exempt from agreed pay scale
- 11 lower grade civil servants
- 255 intermediate grade civil servants
- 427 upper grade civil servants
 - 160 higher grade civil servants
 - 139 Germany Trade & Invest (GTaI)
 - employees, including 32 foreign
 - correspondents



Berufundfamilie audit certificate

With measures in the areas of working hours, workplace, information and communication, leadership skills, personnel

development and family services, the services provided at BAFA to help employees achieve a balance between work, family, private life and care responsibilities incorporate all key aspects of a family-friendly HR policy.

Some of the most important measures implemented by BAFA to date include: highly flexible working hours, up to 18 "floating" days a year, individual part-time work arrangements, remote working, a dedicated room for parents and children, an on-site child day care centre, care advisors and a wide range of health and sports benefits.

The agreed action programme for the years ahead rounds out existing activities, while promoting the employability of all represented generations in the long term. A particular emphasis will be placed on helping managers to promote the reconciliation of work, family, private life and care responsibilities, improve communication on compatibility issues and further develop options to achieve a better work-life balance. The support services offered by BAFA's care advisors for acute care in the family continues to receive a very positive response. The care advisors can be contacted by employees in situations including those requiring acute care.

Equal opportunities

Providing equal opportunities for women and men continues to be an important goal in the organisation's HR policy.

This applies not only to the measures implemented under the audit certificate berufundfamilie. Our general HR policy measures also reflect this focus and ensure that women are treated equally and protected from discrimination.

Once again, as in previous years, BAFA recruited more women than men. In fact, where promotions and pay increases were concerned, women were considered more often than men in proportion to their representation among the total headcount. Where permanent positions were awarded, women were considered as often as men in proportion to their representation among the total headcount.

Recruitment

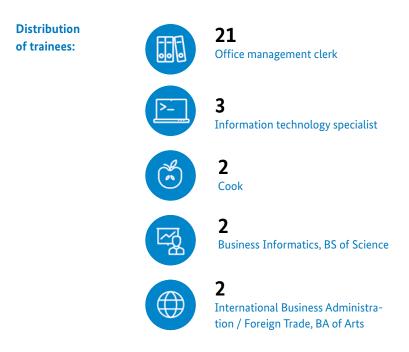
BAFA's recruitment profile is that of a modern and forward-looking authority. An online application management system allows convenient online applications for jobs at BAFA. As an additional modernisation measure in the area of recruitment, all job advertisements are posted on various Internetj obs sites (such as monster.de, interamt.de, bund.de, xing.de and ingenieurkarriere.de).

In 2018, a total of 62 external job advertisements were published and 65 new employees were hired. Because of its extensive range of tasks, BAFA recruits employees from a wide spectrum of educational backgrounds.

Training

BAFA continues to provide successful training in the job profiles "Office management clerk", "IT specialist" and "Cook", while fulfilling its many obligations associated with the Alliance for Initial and Further Training.

The option of completing an EU-funded placement abroad as part of the Erasmus + programme is becoming increasingly popular and has made training more appealing. For several years, BAFA has offered dual study programmes that include a practical component in addition to traditional training.



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Further training

At BAFA, the further education and qualification of employees plays a vital role. In 2018, BAFA again offered an array of further education measures, with nearly 200 external training events and numerous internal seminars, workshops and presentations.

The training measures implemented during the year focused on the topic of combining work and care responsibilities, in addition to the traditional technical content.

Policy advisors group

The policy advisors group (*Referentenkreis*) is an independently organised platform of the approximately 50 policy advisors in BAFA. With regularly organised events, it has become part of the institutional setup in BAFA. The main purpose of the policy advisors group is to facilitate the integration of new policy advisors and to promote direct exchange between senior and junior management.

> In 2018, the policy advisors group travelled to Hamburg on its annual business trip.

Health management

In 2018, a two-day health event took place for the first time at BAFA with the theme "Help yourself! Help others!". The BAFA team also took part again in the climate alliance "City Cycling" campaign (*"STADTRADELN"*).

Information technology

Information technology has been a cornerstone of BAFA's activity for many years.

Roughly 90% of BAFA procedures and processes have already been digitised. BAFA is therefore one of the technology leaders among the federal administrative authorities.

In the area of electronic communication with citizens and companies, BAFA and its fully digitised online solutions has been a pioneer for many years. The convenient electronic workflows for quick communication with BAFA and direct submission of applications have been well received and actively shaped by citizens, companies and partner authorities.

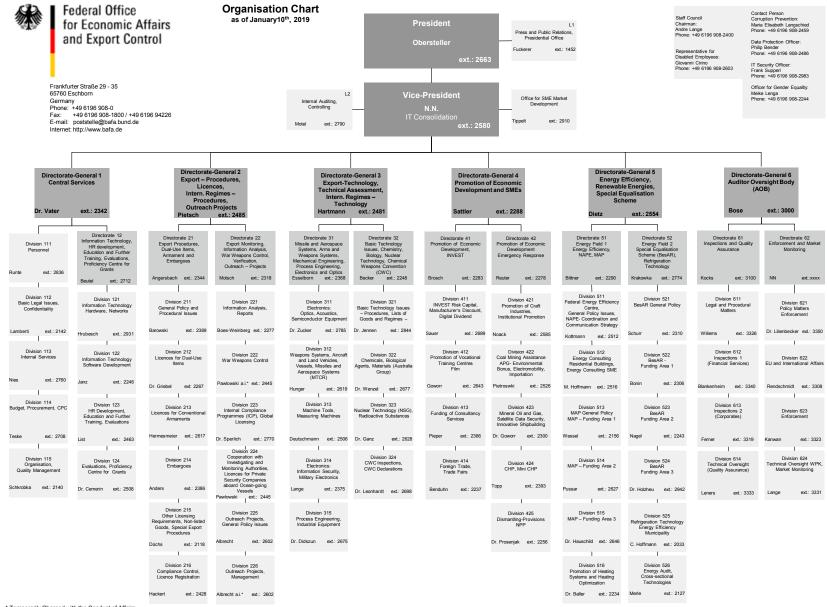
BAFA now offers more than 60 tailor-made software solutions in its specialist areas. As a federal authority, BAFA will be guided by the goals of the e-government initiative and will keep an electronic copy of all files up to the year 2020. Electronic records management should therefore be in use nationwide in 2019.

The Federal Government's decision to consolidate the federal administration's information technology will be a daunting task for us over the next three years. In line with its role as a modern service provider to the Federal Ministry for Economic Affairs and Energy, the primary authority in the business sector, BAFA has already declared its readiness to carry out this consolidation. As a technical agency, our profile requires that we should consider the technology and task requirements in unison rather than separately. In the meantime, BAFA still needs sufficient scope to deliver the results expected of it by policymakers and citizens.

Performance reviews of funding programmes

The evaluation of economic policy funding measures is legally enshrined in the Federal Budget Code in Germany and has become increasingly important in recent years. For the past ten years, BAFA has regularly supported the Federal Ministry for Economic Affairs and Energy in this task through scientifically sound performance reviews, through methodological monitoring of performance review contracts awarded externally by BAFA or the Federal Ministry for Economic Affairs and Energy, as well as through surveys on the effectiveness of policy measures and by offering workshops and training on the topics of economic efficiency analyses and evaluations.

In 2018, the Performance Review Unit carried out seven of its own performance reviews, mainly in the field of vocational training and securing skilled labour. It also provided methodological support to nine performance reviews, especially in the fields of economic development and energy efficiency.



* Temporarily Charged with the Conduct of Affairs





