



Bundesamt
für Wirtschaft und
Ausfuhrkontrolle

German Government Funding for Refrigeration and Air conditioning Technologies

Dr. Matthias Liehm

<http://www.bafa.de/>



German Government Funding

Introduction

- BAFA and funding opportunities in BAFA
 - Funding in the various fields of energy production, energy efficiency and energy consulting
- Refrigeration and Airconditioning Promotion Program
 - History
 - Grant applications process
- Refrigeration and Airconditioning Promotion Program 2019
 - Funding goals
 - Fundable items
 - Funding calculation examples
- Notes, summary and outlook



BAFA - Federal Office of Economics Affairs and Export Control

- ... belongs to the division of the Federal Ministry of Economics and Energy
- ... also implements tasks from other ministries, e.g. from the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety
- ... is located in Eschborn near to Frankfurt/Main
- ... has about 850 employees



BAFA- Key competencies

Export Control



Energy



Promotion of Economic
Development



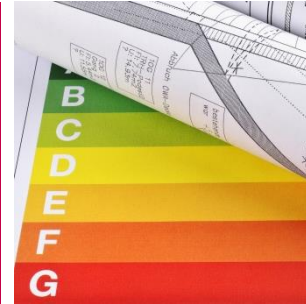


BAFA and funding opportunities in BAFA Energy

Special
Compensation Rule
(EEG)



Energy efficiency



Renewable Energy



Federal Agency for
Energy Efficiency

Energy Consulting
for Citizens,
Businesses and
Local Authorities



Old Energies



BAFA is a key player in the implementation of the energy system transformation and makes an important contribution to an ecological, affordable and secure energy supply.



BAFA and funding opportunities in BAFA Incentive programs for the promotion of Renewable Energies in heating systems

Biomass



Solarthermie



Visualisation



Heat pumps



Energy efficiency
incentive
programme

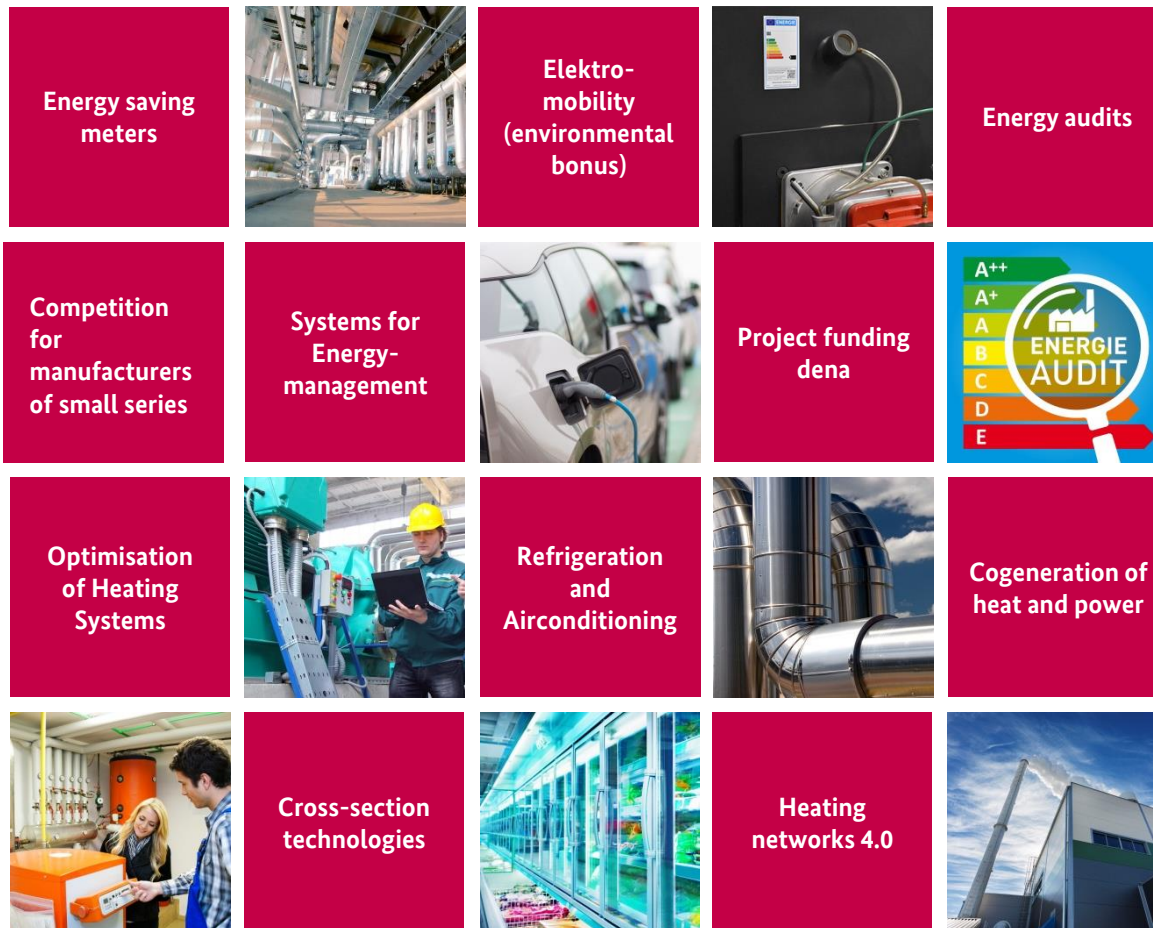


Optimisation of
running systems

The expansion of renewable energies is an important pillar of energy system transformation. The "Market Incentive Program" has been making a valuable contribution to this for many years with subsidies for modern ecological heating systems.



BAFA and funding opportunities in BAFA Incentive programs in the field of energy efficiency



BAFA administers central federal funding programmes. This triggers investments in energy-efficient technologies and processes.

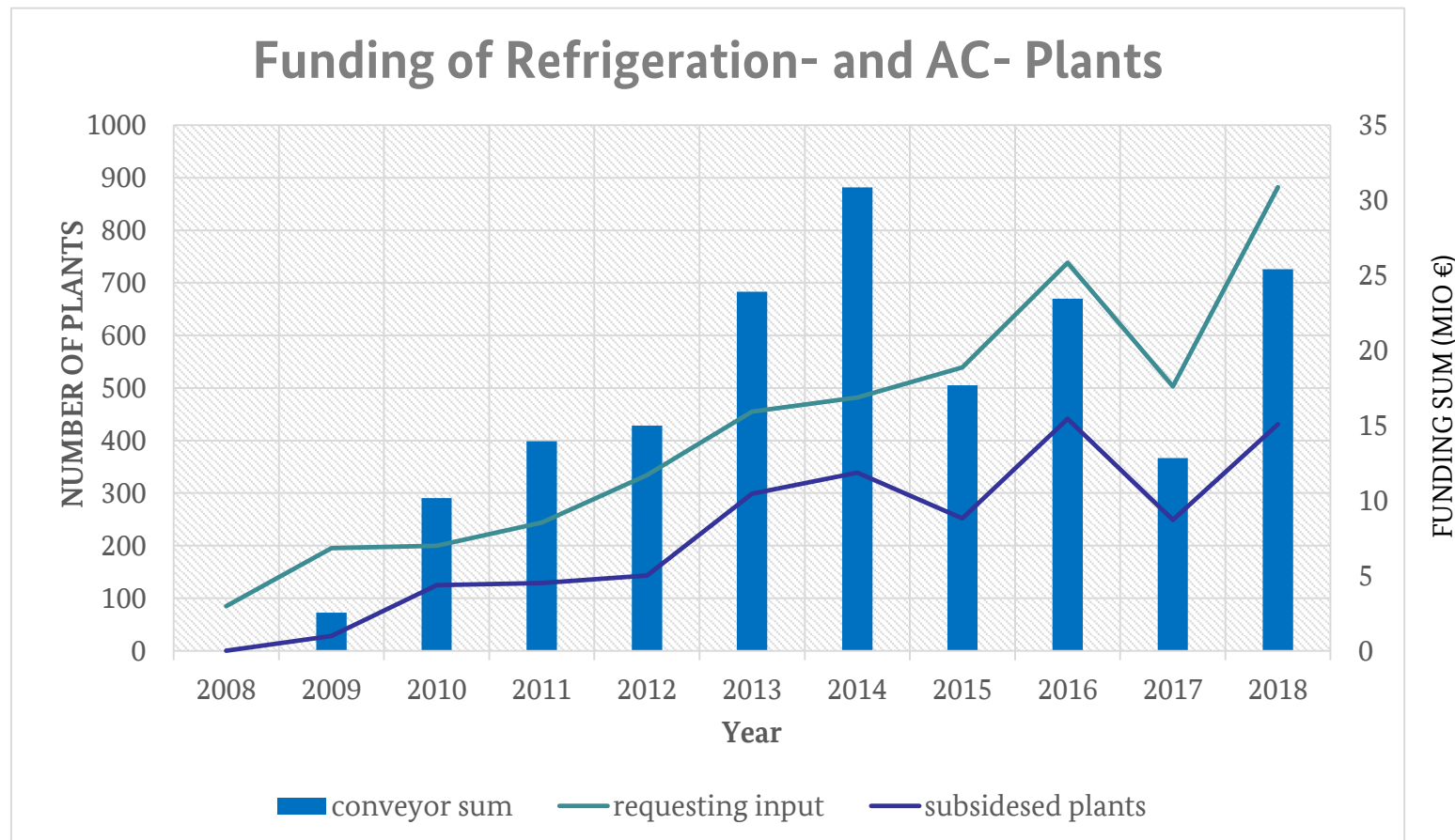


Refrigeration and Airconditioning Promotion Program Generations of Guidelines

Generation	Name	Kind of Funding	Proof of Efficiency
2008 - 2013	KKI	Sharefunding	Energyconsumption and Greenhouse gas - reduction
2014 - 2016	KKA	Sharefunding	Points for efficiency relevant components
2017 - today	KKN	Fixed sum funding	Specification of highly efficient components

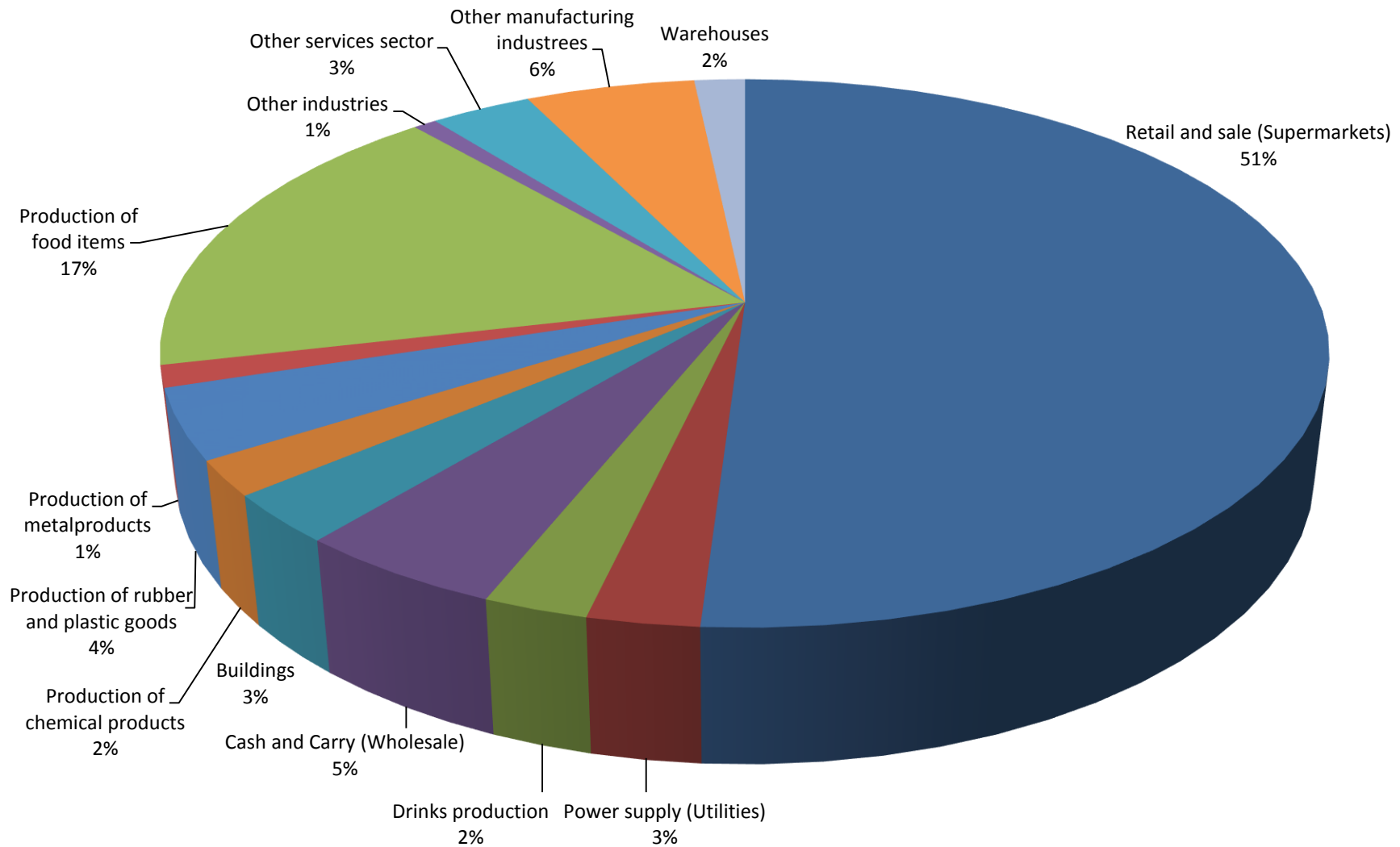


Refrigeration and Airconditioning Promotion Program History of Funding for Refrigeration and Airconditioning

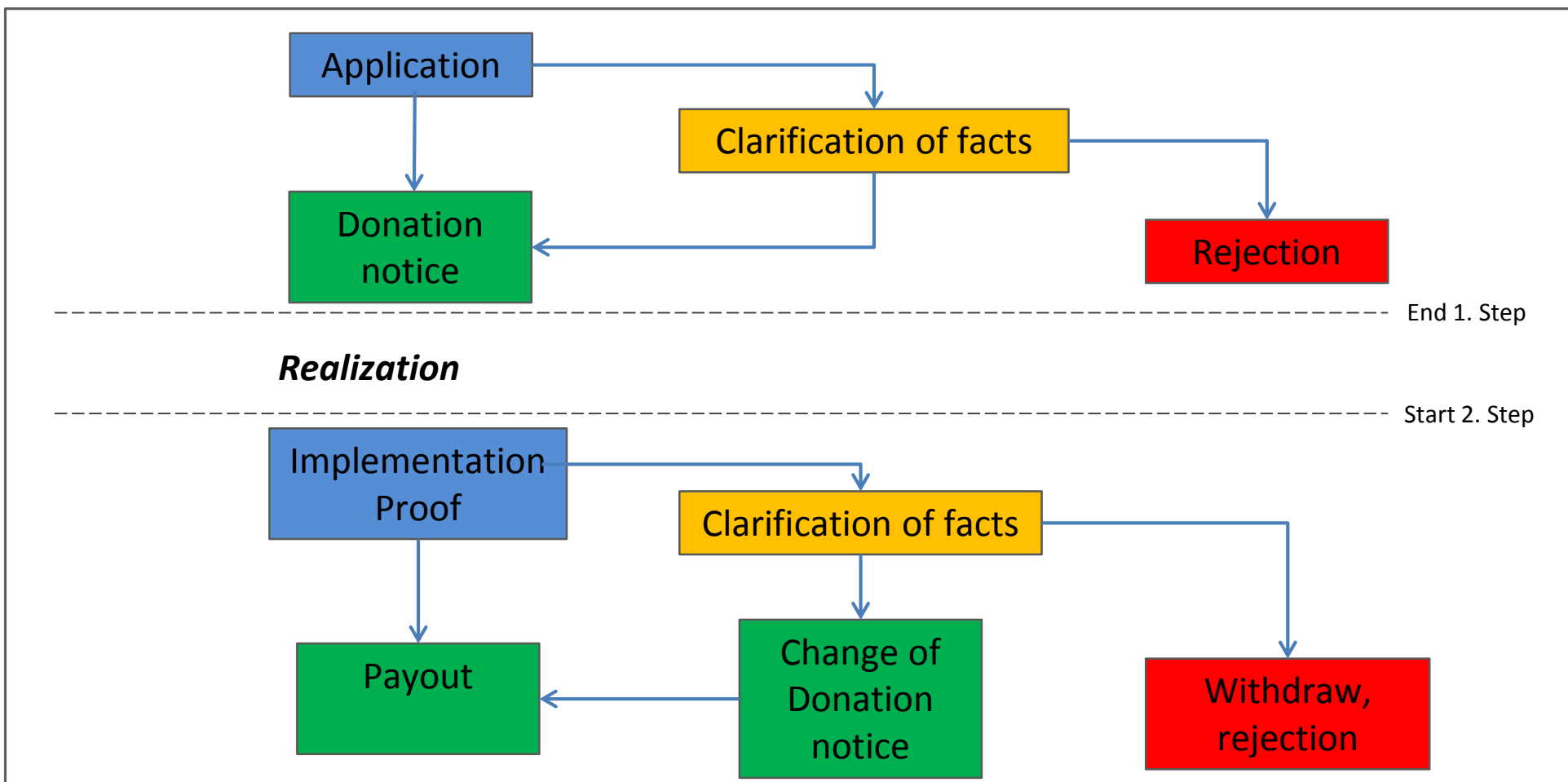




Refrigeration and Airconditioning Promotion Program Funded projects (installations) by sectors in refrigeration and airconditioning



Refrigeration and Airconditioning Promotion Program Two steps application process





Refrigeration and Airconditioning Promotion Program 2019 Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

Guidelines for the promotion of measures on refrigeration and air conditioning systems using non-halogenated refrigerants in stationary and vehicle applications within the framework of the National Climate Protection Initiative (Refrigeration and Air conditioning Promotion Program)

of 19. Dezember 2018

- **Funding goals:**
 - Enhance the use of climate protection technologies in refrigeration and air conditioning
 - Increasing energy efficiency
 - Reduction in cooling demand
 - Reduction of emissions of fluorinated refrigerants
- **Who can put a grant application?**
 - companies, non-profit organisations, municipalities, local authorities, special-purpose associations and private enterprises, schools, hospitals and church institutions.



Refrigeration and Airconditioning Promotion Program 2019

Fundable items

- **Eligible for funding :**
 - Installations with non-halogenated refrigerants
 - new systems (coolant system can remain in use)
- **Cooling unit**
 - Chiller with refrigerant belonging to safety class A3,B2,B2L
 - for refrigeration purpose (and deep-freezing)
 - Air conditioning and process cooling systems
 - Other Cooling units
 - Supermarket and commercial refrigeration systems with refrigerant R744
 - Absorption and adsorption plants
 - Vacuum ice generators, turbo compressors with R718, adiabatic cooling systems

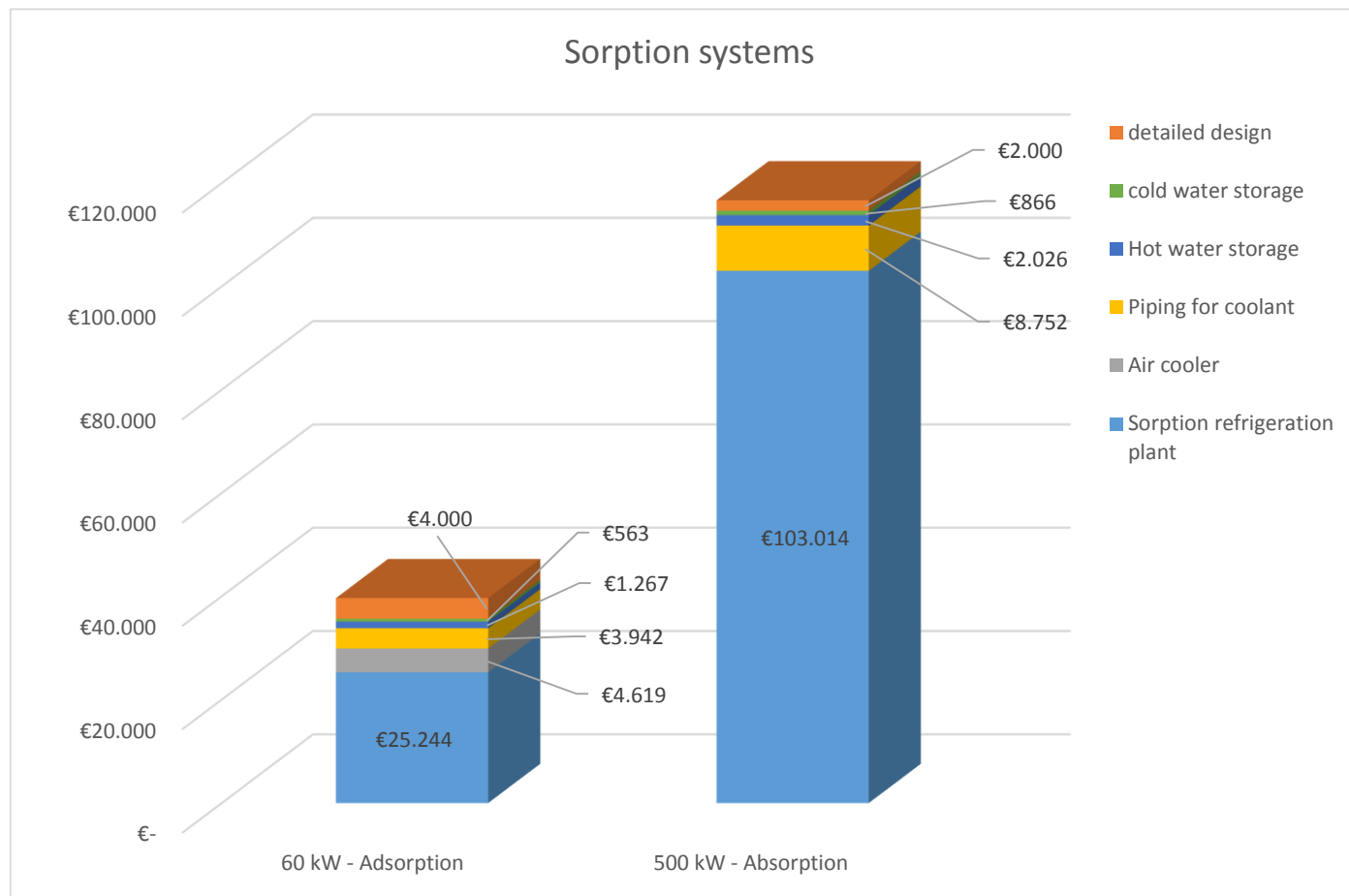


Refrigeration and Airconditioning Promotion Program 2019

Fundable items

- **Components and Systems**
 - Freezing unit with R744
 - Air cooler (Evaporators)
 - Cooling towers (Hybrid coolers)
 - Heat pump for the utilisation of waste heat of the refrigeration plants
 - Refrigerated cabinets and shelves
 - Piping for cooling circuits
 - Components for free cooling operation
- **Thermal storage tanks**
 - Hot and cold water storage tanks
 - Ice storage tanks
 - Latent heat accumulators

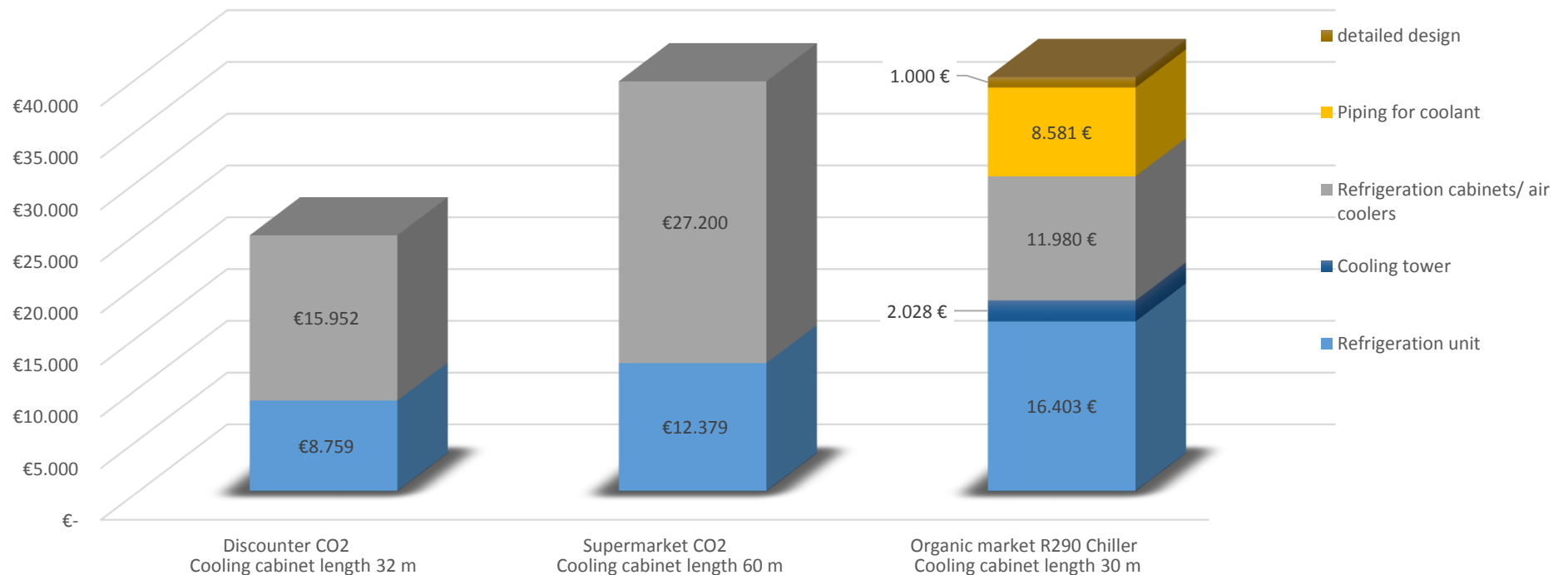
Refrigeration and Airconditioning Promotion Program 2019 Funding calculation examples – Sorption systems





Refrigeration and Airconditioning Promotion Program 2019 Funding calculation examples – Supermarket refrigeration systems

Supermarket refrigeration systems





Important points to be considered

- study the funding guidelines especially conditions before application
- finalise your concept before the application, do not forget to apply all the system components
 - only what has been applied for can be funded
 - funding amount will be calculated according to given specifications, if the plant is subsequently enlarged, only the granted amount will be paid
- do not issue any orders before receipt of the donation notice
- be careful about given deadlines
 - Extension possible in justified cases
- Questions are possible via e-mail or hotline



Further informations

- BAFA – website
 - basic informations
 - https://www.bafa.de/DE/Energie/Energieeffizienz/Klima_Kaeltetechnik/klima_kaeltetechnik_node.html
 - Funding guidelines (Bundesanzeiger)
 - Technical data sheet (Merkblatt)
 - Electronic application and related forms
 - Funding calculator (Online-Förderrechner)
 - <https://www.klimaschutz.de/förderrechner>
- BMU – website (<https://www.kaeltemittel-info.de>)



Kontakt



Bundesamt für Wirtschaft und Ausfuhrkontrolle
Abteilung 525, Kältetechnik, Energieeffizienz Kommunen
Frankfurter Str. 29 – 35
65760 Eschborn



+49 (0)6196 908-2462



+49 (0)6196 908-1249 (Hotline daily 9-12)



matthias.liehm@bafa.bund.de