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Renewable Energy and Sustainability - The German Perspective

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External Trade: Engine of the German Economy



Germany is “world champion of exports” :

- exports 2007: € 969.0 billion
- (more than 1,3 trillion USD)
- Every third € is earned abroad
- every fifth job depends on external trade

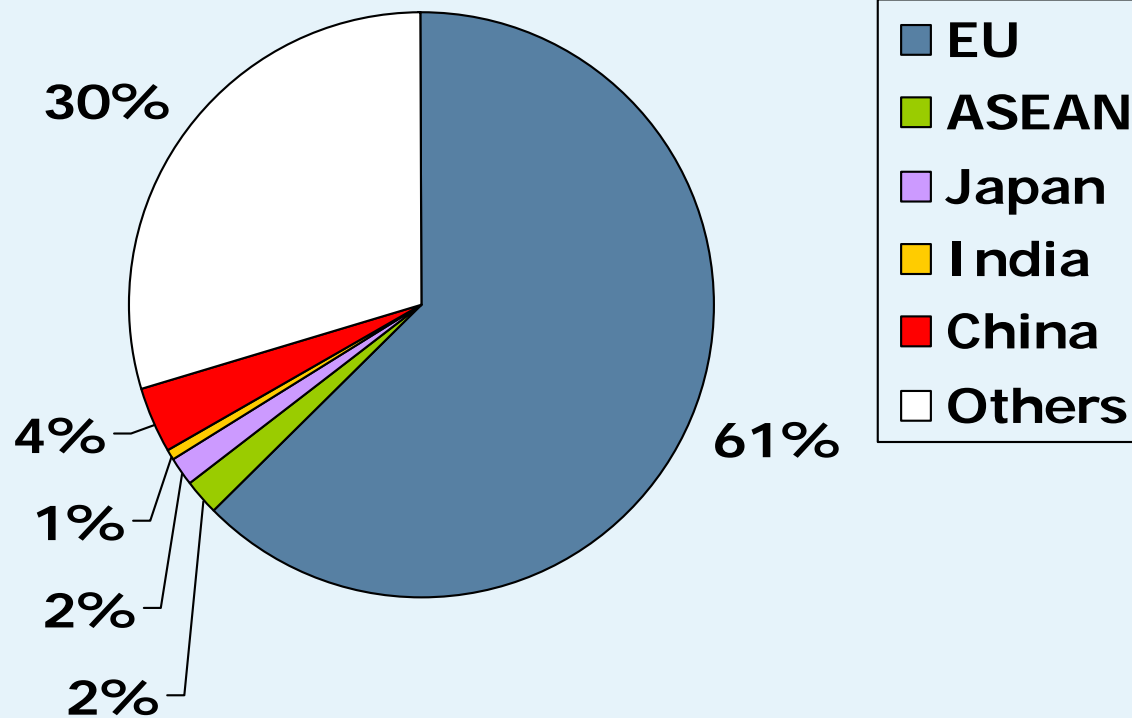


Germany is the second largest importer globally:

- Imports 2007: € 772,5 Milliarden
- benefits from global division of labour
- Prices go down, choice of goods and services increases

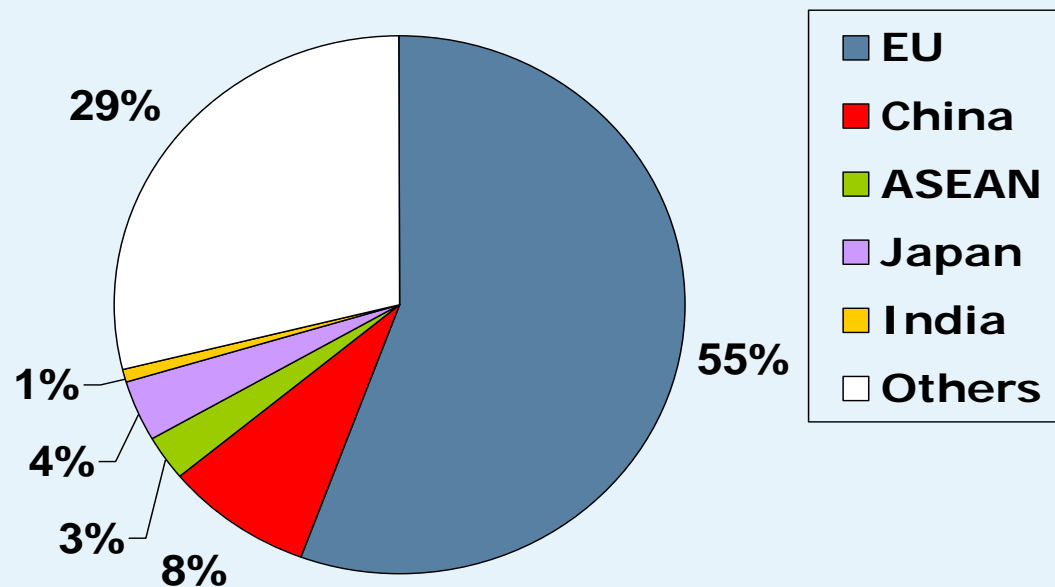


German External Trade – Exports 2007





German External Trade – Imports 2007





External Trade - important figures

	Area (1.000 km ²)	Population (Millions)	GNP per capita(US\$)	Total GNP (Mrd. US\$)	Growth rate of GNP (%)
EU	4.32	493	28.159	12.852	2,4
China	9.600	1.310	2.018	2.654	11,1
ASEAN	4.489	567	1.890	1.073	5,8
Japan	377,8	128	34.181	4.367	2,2
India	3.290	1.130	965	1.089,9	8,9

Quelle: Bfai, Eurostat; 2008



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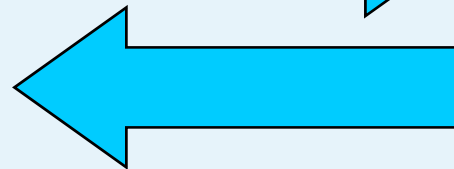
Main trade flows between ASEAN and Germany

- machinery
- electronics
- chemical products
- cars and car parts



Germany

ASEAN



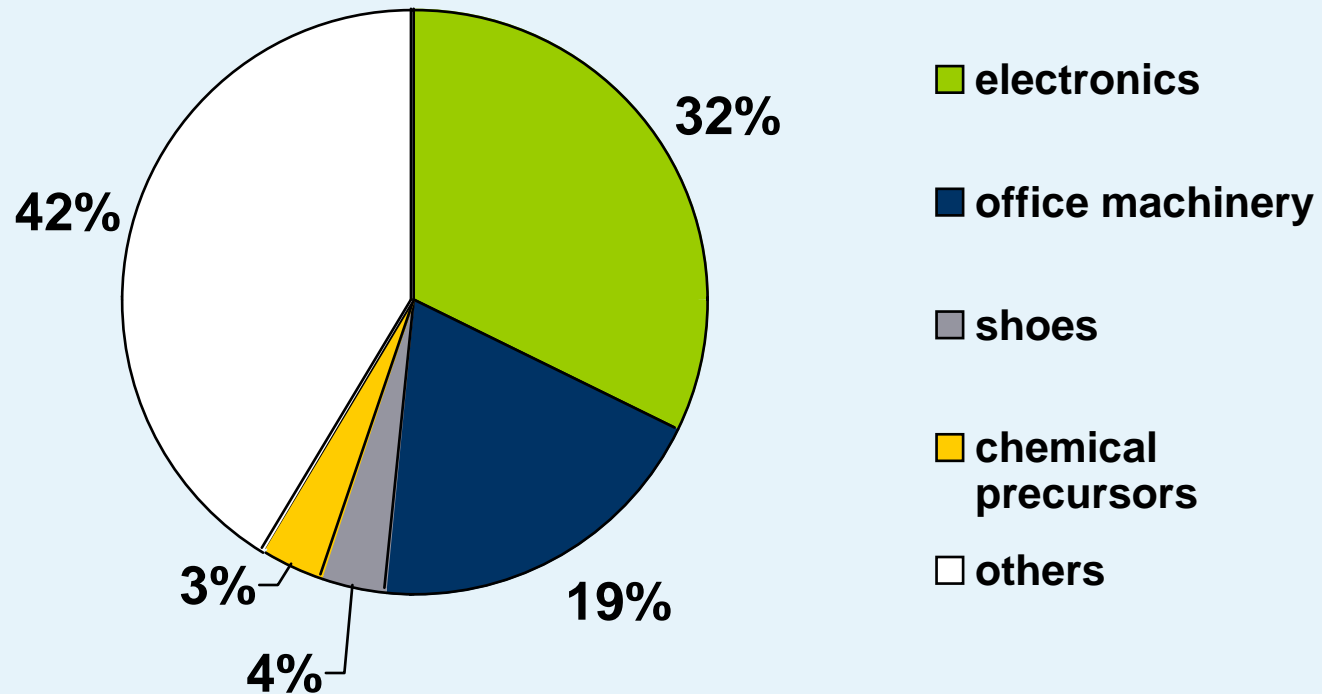
- office equipment
- electronics
- food
- communication technologies



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Main trade flows between ASEAN and Germany

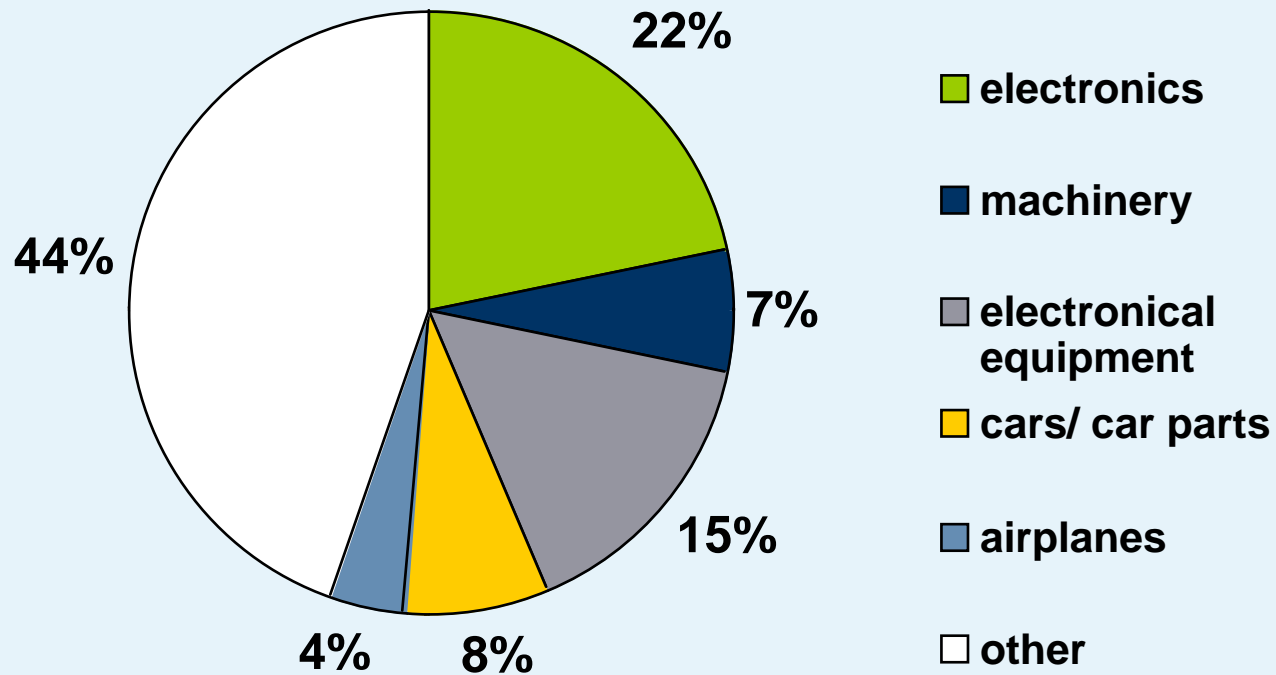
Structure of the German imports from ASEAN





Main trade flows between Germany and ASEAN

Structure of the German exports to ASEAN





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Excellent Trade Relations between Germany and Malaysia

- The European Union is the most important trading partner of Malaysia
- Germany is Malaysia's most important trading partner in the European Union
- Last year, for the first time, bilateral trade between Malaysia and Germany exceeded 8 Bn EUR (more than 10,5 Bn USD)



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Germany: the Energy mix

The energy mix has to take the needs of future generations into account.

This includes increasing the share of renewable energies.

This ensures the protection of climate and resources. It reduces reliance on other sources of energy and their price

Also: Positive effects on employment

→ In Germany: 14,1% of the total energy production is created by renewable energies



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Why is the share of renewable energy so big?

Two main factors:

- support for renewable energies by the government
- German technological know-how

Now, e.g. , Germany is the number-1-location for photo voltaic technology.



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Support for renewable energies by the government

Legislative acts like "Law for the Priority of Renewable Energy", aka the Renewable Energy Sources Act (EEG):

The Act is from 2001 and has been amended in 2004 and January 1, 2009:

The operators of electricity networks are obliged to accept all of the electricity and pay for it at the rates stipulated. The law is promotes the construction of plants for electricity from renewable energy (i. e. hydropower, landfill, sewage and marsh gas, biomass, geothermics, wind and solar energy).

The operators of these supported plants will receive a fixed rate per kilowatt hour of generated electricity for a certain time period in order to make the operation of the plants cost-effective



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German Technological know-how

- Various support programmes by the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

- e. g. TREE: Since December 2008, the German Renewables Energy has run TREE - Transfer Renewable Energy & Efficiency. This project is to transfer know-how in renewable energies (RE), energy efficiency (EE) and climate protection, for decision makers and engineers from developing and emerging countries. TREE offers seminars in Berlin and partner countries, supported with scholarships; and distance-learning courses as a follow-up

- participants also from Malaysia

The German Federal Ministry of Economics and Technology has initiated the Renewable Energy Export Initiative to increase the export of technologies which enable the use of renewable energies.



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The numbers show the success

In Germany, already 3 million people use solar thermal energy.

In the first quarter of 2008, more than 20,000 solar thermal plants used to generate hot water and to augment the heating system in private households have been installed in Germany.

And so on....



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Another Energy source: Energy efficiency

A Task force of the German Federal Ministry of Economics and Technology has developed suggestions for an „activating policy for energy “.

Recommendations in August 2008 for a new focus in energy policy in a study called “Efficiency, transparency, competition – safe and affordable energy for Germany”.

Increase in energy efficiency a further vital element to ensure the provision of affordable energy.



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Energy Efficiency in Germany

2007: Germany “world champion” in energy saving.
Germany registered the world’s largest decline in energy consumption.

Saving energy is not a burden, but a chance for a new market, where Germany has got a lot to offer.

More material on this topic on the website

<http://www.efficiency-from-germany.info/EIE/Navigation/EN/root.html>



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International Context: Support of IRENA

The International Renewable Energy Agency (IRENA) will be established January 26, 2009, at a conference in Bonn.

It is to promote renewable energy, advise industrialised and developing nations on ways of reducing their dependency on oil, coal and gas.

About 80 countries have committed to participate

Location? Maybe Bonn in Germany...

<http://www.irena.org/>



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Additional information

Opportunities in Germany: Germany Trade and Invest

http://www.gtai.com/web_en/homepage

Contacts for companies: MGCC

[Http://malaysia.ahk.de](http://malaysia.ahk.de)

Programmes by the Federal Ministry for Economy and Technology

<http://www.german-renewable-energy.com/Renewables/Navigation/Englisch/root.html>

<http://www.bmwi.de/English/Navigation/energy-policy.html>

Programmes by the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

<http://www.bmu.de/english/>



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What lies ahead for Malaysia and Germany?

**A possible increase in the Malaysian-German
co-operation in the fields of renewable energy
and energy efficiency**

**This would be beneficial for both sides
and for a sustainable future!**



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Thank you for your attention!

Do you have any questions?

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