FRESH VIEW
on Sustainable Building:
Know-How, Materials, Technology, Renewable Energy, Research
SURPRISINGLY INGENIOUS

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Sustainable Building:
Know-How, Materials, Technology, Renewable Energy, Research

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专业知识，材料，技术，可再生能源，研究

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Sustainable Building
made in Austria

The guiding principle behind sustainable construction is the awareness that the economy, ecology and society are interlocking systems.¹ With its 40% share of energy consumption and CO₂ emissions, the building sector throughout the EU is well ahead of traffic and industry.² The use of new technology means that there is an enormous potential for savings and this is where the Austrian economy has a lot to offer.

The brilliant success of the Austrian team in the "Solar Decathlon" competition in 2013 in Los Angeles (http://www.solardecahlon.at) shows impressively how important sustainable construction has become for the Austrian economy and what a good reputation Austria has been able to gain in this area.

The combination of future-oriented technology, the consistent implementation of the latest scientific findings and the firm belief that future generations have to be considered in today's planning are fundamental parameters of action for many Austrian companies.

1 "Report of the World Commission on Environment and Development: Our Common Future" (Brundtland Report), 1987
2 Austrian Institute of Technology, Energy for the Built Environment

A sustainability center is an essential part of the "Austria 2050" strategy. The "Austria 2050" strategy focuses on achieving sustainability in the following areas: energy, mobility, the built environment and the concept of "air quality and climate change.

Austria's resources are not unlimited. Energy security and economic development are inextricably linked. Austria is committed to renewable energy sources and is actively working to reduce its carbon footprint.

Austria has set ambitious goals for reducing greenhouse gas emissions. By 2050, Austria aims to reduce its greenhouse gas emissions by 55-70% compared to 1990 levels. This goal is in line with the European Union's commitment to reducing emissions by 40% by 2030.

The "Austria 2050" strategy includes a number of measures to achieve these goals. One important measure is the promotion of renewable energy sources. Austria has set a target of 40% renewable energy by 2030, with a focus on solar, wind, and biomass.

Austria also aims to increase energy efficiency and promote sustainable transportation.

Austria's commitment to sustainability has been recognized internationally. The country has received numerous awards and accolades for its efforts to reduce emissions and promote renewable energy.

Austria is committed to doing its part in addressing the global challenge of climate change. The "Austria 2050" strategy outlines a roadmap for achieving sustainability and reducing emissions.

Austria's efforts in sustainability are not limited to the domestic level. The country is also a leader in international climate change efforts. Austria has been an active participant in the United Nations Framework Convention on Climate Change (UNFCCC) and is a member of the Parties to the Paris Agreement.

Austria's sustainability efforts are driven by a strong commitment to environmental protection and a desire to create a more sustainable future for future generations.
Sustainable construction has many facets and, in addition to special planning, the choice of the right materials and expert workmanship, the used products must also be applied correctly. Austrian companies play a leading role in all these areas.

A sustainable building is characterized by an exceptionally high ecological, economical and socio-cultural quality. The accumulation of these three aspects provides added value for the environment, but also at the same time for society. Austrian companies are not only active in the conception of new sustainable buildings. Rather it is more often the case that the energy efficiency in existing buildings can be increased through such an extent through renovation and refurbishment that the running costs are considerably reduced.

In order to extensively minimize the impact of construction on the environment, Austrian building companies significantly contribute to the protection of the environment and climate with their wide range of offers – beyond complying with the environmental laws and regulations and official requirements. As early as in the planning phase of construction projects, Austrian companies concentrate on the resource-friendly use of energy and raw materials and on the reduction of emissions and waste materials.

The European Union has set itself the target of improving the energy efficiency of buildings by 2020 and increasing the use of renewable energy for heating, hot water and air conditioning. In the EU countries alone, buildings use up 40% of the total energy; from 2020 onwards new buildings should therefore hardly need any energy for heating, hot water, ventilation and cooling. New governmental buildings should already meet these requirements from 2019 onwards. Austrian companies also play a leading role here.

In the last 20 years Austria has developed to become one of the leading countries in the field of building technology. The portfolio ranges from highly modern windows and doors to ventilation systems suitable for passive houses and automated biomass heating and solar systems.

可持续建筑包含了许多方面，除了重视规划、选择合适的材料与专业的施工人员外，产品也必须被合理地使用。奥地利企业在所有这些方面都占据领先地位。

极高的生态、科技、社会文化质量是可持续建筑的特点，这方面的积累不仅为环境，而为也为社会提供了附加价值。奥地利企业不仅在新型可持续建筑的设计方面十分活跃，更常见的是企业通过改造与翻新现有建筑成功提高能源效率，并使运营成本大大降低。

为了最大限度地减少建筑物对环境所造成的影响，奥地利建筑业不仅仅是做到遵守环保法律、法规和政府规定，还提出了种种解决方案，对环境保护的贡献做出了巨大的贡献。早在建筑项目的规划阶段，奥地利企业就已将注意力集中在如何资源友好地利用能源与原材料，旨在减少废气与废料的排放。

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欧洲联盟已制定了一个至2020年改善建筑物能源效率的目标，并增加供暖、热水和空调领域内可再生能源的使用。仅在欧盟成员国，建筑消耗能量占总消耗的比例提升至40%。从2020年起，新建筑几乎不再需要任何能源用以热水、通风与制冷。新政府部门建筑将于2019年起先行实施这一规定，奥地利企业也将在这方面起到一个主导作用。

在过去的20年里，奥地利已经发展为建筑科技领域内的领先国家，产品领域从高科技的现代门窗，到适用于被动式节能房屋的通风系统，直至自动化生物质能和太阳能供暖系统。

3 Information from the Commission, COM [2008] 772

3 委员会信息简报，COM [2008] 772
Domestic companies generate an annual turnover of around 32.6 billion Euros through environmentally oriented production and services.  

The growth driver in environmental technology and the environmental services industry is export. While Austrian environmental technology accounted for around 50% of the turnover on foreign markets in the mid 1990s, today it is almost two thirds.

The "new" member states of the EU and the Southeast Asian region are becoming increasingly important here. In particular companies which produce technology to monitor the environment, technology for renewable energy and measurement and control technology, are leaders in the export market.

The proportion of renewable energy compared to the gross amount of energy consumption in Austria is exemplary. With a share of 32.2%, Austria lies in third place behind Latvia and Sweden. The fields of hydro power (38.9%), solid biomass (31.5%) and district heating (10.3%) contribute primarily to the total volume of renewable energy.

The Austrian environmental technology and services industry is characterized by a very high degree of innovative activity. Companies in the manufacturing sector have an average research intensity of two to three percent, compared to the field of environmental technology, where it is around 6.5%.

Austria is also leader in the field of environmental patents. Here particular mention should be made to the developments in passive house technology, waste management, renewable energy technology and energy efficiency.

In the same breath stress should also be placed on the state subsidy programmes. The Green Electricity Act, the environmental support for companies and the climate and energy funding pools, as well as the Austrian Research Promotion Agency (FFG - https://www.ffg.at/en) should be quoted as prime examples.

4 http://www.umwelttechnik.at/de/info/daten-fakten/

奥地利本土企业产生的年营业额中有326亿欧元是通过面向环保领域的生产和服务获得的。

环境技术与环境服务业的增长动力是出口，而在上世纪90年代中期，奥地利环境技术行业50%的营业额是从国外市场获得的，这一数字如今已提升至约三分之二。

欧盟的新成员国与东南亚地区国家的重要性也在不断提升中，尤其是那些提供环境监测技术、可再生能源技术和测量与控制技术的企业是出口市场的主力军。

奥地利的可再生能源占能源消耗总量比是极具示范意义的，32.2%的比例使奥地利在这一领域仅次于拉脱维亚与瑞典，位居世界第三，38.9%的水力发电、31.5%的生物能与10.3%的集中供热是可再生能源的主要组成。

极具特色的创新活动是奥地利环保技术与服务业的一大特征，制造行业企业的平均研究力度投入在2-3%之间，与之相比，环保技术领域企业的研究投入则有6.5%左右。

奥地利同样在环保专利领域占据着领先地位，这里需特别提及被动式房屋技术、污水处理、可再生能源技术与能源效率方面的进展。

同时在此也必须突出强调国家的资助项目，绿色电力行动、对企业环境保护的支持、气候能源方面的基金组织以及奥地利研究促进会（FFG - https://www.ffg.at/en）均可被视为作为极佳案例。

4 http://www.umwelttechnik.at/de/info/daten-fakten/
Planning and consulting services

Austrian civil engineers, master builders, planners and architects provide comprehensive and detailed know-how in the planning and construction of energy-efficient buildings. A major reason behind the Austrian success story is the specific promotion of knowledge as well as the continuous development of the products.

Renowned institutions, like the Technical Universities in Vienna and Graz, as well as the Austrian Institute of Technology, ensure technological development at the highest academic level. Austria’s position as a pioneer in the implementation of innovative construction techniques is not only evident in large construction projects, but also through innovative solutions in civil engineering and traffic route construction.
The project UNIVERCITY 2015 at the Technical University of Vienna, which is an integral part of teaching and research in the Austrian academic world, is aiming to create a more efficient space utilization concept by 2015 and in doing so to provide better conditions for the employees and students in research, teaching and administration. The central component of this challenging concept, which is highly esteemed far beyond the borders, is the renovation of a large university building in the inner city.²

A milestone in construction is being built on this very spot—the first real plus energy multi-storey building. All equipment, from the intercom to the highly complex server room, should be provided with electricity supplied by an integrated photovoltaic system attached to two facades as well as a PV system on the roof.⁷

Even if electricity from the grid will be used as an alternative on days with little sunshine, the approach clearly shows the decision of the Austrian universities. It is important to put the research results into practice, to think in terms of sustainability and to accept challenges.

Only by setting a good example is it possible to convince other people of the significance of sustainable construction and the added value which it creates.

Austrian architects above all recognized this emerging niche early on. The official building of the Austrian embassy in Jakarta, which was opened in November 2011, is therefore indisputably regarded as the most impressive Austrian showcase project in Southeast Asia, planned and completed by the Austrian architects, pos architekten ZT KG.

⁵ http://www.univercity2015.at/
⁶ on the Getreidemarkt in Vienna
⁷ Die Presse, Forschung – Magazine for Technology and Innovation, Dec 2013, p. 5
The right building materials

A common definition of sustainable development is that the needs of the present generation are covered without jeopardizing the needs of future generations.

The choice of building materials plays a very important role here. These are in particular wood and solid building components, as well as the materials polystyrene, graphite, rock wool and the renewable raw materials hemp, flax and sheep’s wool for the insulation of buildings.

The element glass has always played an essential role in energy-efficient building: Austrian manufacturers of windows and insulating glass have been pioneers in this field for decades and offer, beyond the pioneering production of plastic windows, highly insulating low-energy and passive house windows as well as overall concepts for glazing.

合适的选择材料

可持续发展的通常定义是在不透支下一代人需求的前提下满足当代人的需求。

为此，如何选择建筑材料起到了一个极为重要的作用。这些建筑材料包括特定的木材，坚实的建筑组件，聚苯乙烯材料，石墨，石棉，还有可用于建筑物保温的棉，亚麻，羊毛等可再生原料。

高效节能建筑中，玻璃是最基础的组成部分。奥地利的玻璃与保温玻璃制造在数十年来一直占据着领先地位，除此之外，还有塑料窗领域的开拓性产品，高性能低能耗的被动式节能房屋窗与玻璃装配的整体方案。
The most efficient and popular products for heat and cold insulation include conventional insulating panels made of polyurethane, expanded polystyrene and polyethylene. These provide the ideal basis for maximum insulation with minimal thickness.

The resulting energy efficiency leads to direct savings in cost for the consumer. Apart from that, Austrian companies have adapted their production in such a way that no damaging wastewater is produced and it is completely free of HCFCs and HFCs.

The products made of expanded polystyrene and Styrofoam, but also of extruded polystyrene and extruded foam, are further evidence that Austrian companies were pioneers in thermal rehabilitation, as well as in the building of new housing and objects.

At this year’s awards of the Austrian prize for environmental protection, which is bestowed every year by the Austrian Broadcasting Corporation – ORF and the Federal Ministry of Agriculture, Forestry, Environment and Water Management, in cooperation with the climate protection initiative klima:aktiv (http://www.klimaaktiv.at/English.html), the Austrian company Napor® Klima Dämmstoff GmbH from Braunau am Inn was distinguished for its insulation panels made from Austrian hemp.

The hemp insulation panels, which can be used in solid construction, are made from renewable raw materials and, in contrast to conventional insulating materials, can bind more CO₂ than is released in producing them.

Furthermore hemp fibre panels can be recycled into new insulating panels or even used as feedstock in the production of biogas.

 Conversely, hemp fibres can also be used to create biodegradable products.

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Building technology

In accordance with sustainability, there needs to be mechanisms within a building which utilize energy that has already been used and finds a new use for it.

The key word “energy recovery” in air technology, often the result of individual research and development, must receive special mention here. It is not possible to imagine the increasingly important passive house segment without counter flow plate heat exchangers as well as home ventilation devices.

Austrian companies developed building technology concepts for passive houses as well as the entire building of energy-efficient housing. Here unrivalled solutions for single family homes to multi-storey residences can be found, as well as for renovation and new building work.

Intelligent Austrian solutions for a healthy room climate ensure unique living comfort – in the meantime worldwide – and with the highest energy efficiency.

建筑技术

为了保持可持续性，建筑物内需要建立一个能源回收利用的机制，为已经使用过的能源找到新的用途。

在空气技术领域的关键字是“能源回收”，这通常是独立研究与开发的结果，必须在此被特别提及。很难想象在越来越重要的被动式房屋中会没有逆流板式热交换器以及家庭通风设备。

奥地利企业的发展了被动式房屋的建筑技术方案，同时也发展了高效率的密闭式建筑。他们提供从单户家庭住宅直至多层住宅的解决方案，广泛适用于旧房改造和新建筑。

奥地利的智能室内气候解决方案确保房间极度舒适，同时也保持了极高的能源效率，目前已在全球范围得到应用。
Renewable energy

Renewable energy as an alternative to fossil energy is more than a simple catchword for Austrian companies. Austrian companies are aware of their responsibility and invested early in this promising area.

Wood, air, water and soil – a long Austrian Energy Tradition

The oldest form of using renewable energy is the use of wood as a source of energy. Austria can therefore be proud that modern wood heating originated here. In the field of wood heating systems, Austria has companies which offer a sustainable alternative to conventional oil heating systems.

With the equivalent of 0.5 ha of forest per inhabitant, Austria has some of the most dense forest coverage in Europe (47.6%). The palette of products offered by Austrian companies ranges from modern firewood boilers with high temperature combustion to the latest wood chip-fired furnaces to innovative pellet boilers.

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Osterreichs Wald, Bundesforschungszentrum für Wald, April 2012

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可再生能源

可再生能源是化石能源的替代能源，这对于奥地利企业来说不仅仅是一句简单的口号。奥地利企业很早就意识到自身的责任，并在这一充满希望的领域进行投资。

木材、空气、水与土地——
奥地利由来已久的能源传统

最早的可再生能源的形式便是将木材作为一种能源。因而奥地利可以自豪地宣布，奥地利是现代木材供暖起源地。在木材供暖领域，奥地利企业提供可持续的选择方案，用以替代传统石油供暖体系。

折算下来，奥地利人均森林面积达0.5公顷，奥地利是欧洲森林覆盖率最高的国家之一，达47.6%。奥地利企业提供的产品范围从高温燃烧的现代化木柴燃烧炉，到最新的木屑燃烧炉，直至创新的颗粒燃料燃烧炉。

8奥地利的森林，奥地利联邦森林研究中心，2012年4月
Innovative heat pumps are energy-saving, cost effective and above all environmental-friendly alternatives for heating, cooling and the provision of hot water.

By means of sophisticated technology, ambient heat, which is stored in the natural heat sources of air, water and soil, is processed and then rapidly and cleanly converted into heat energy. In the late 1970s Austrian companies were the first European manufacturers in this product category.

**The sun – our most sustainable source of energy**

There is hardly any other source of energy which is as sustainable as solar energy and no building, which is built according to the principles of sustainability, can manage without solar energy.

The range of products from Austrian companies extends from applications in the field of warm water and heating to the complex field of cooling buildings using the sun’s power. Austrian companies impressively show how surface collectors made in Austria are highly regarded worldwide.

Tailor-made, environmental friendly and above all sustainable solutions for single- and multi-family houses, housing complexes, public, commercial and industrial facilities, are trademarks of Austrian quality products.

It is therefore not surprising that – based on the surface area of solar systems installed per inhabitant – Austria lies just behind Cyprus and Israel.

先进的加热泵高效节能，成本划算，最重要的是环保友好，这为供暖、制冷以及水加热提供了新的选择。

利用精良的技术工艺，蕴藏在自然环境中的热能，如大气、水和地下的热能来源，都能经过一定的处理转变为立即可用的清洁能源。上世纪70年代后期，奥地利企业就已经在此领域内捷足先登，领先于欧洲其他的供应商。

太阳能—我们最重要的可持续能源

很难有任何一种能源形式可以像太阳能那样持久，几乎没有任何一栋可持续性建筑在设计的过程中没有将太阳能列入考量范围。

奥地利企业的产品应用范围覆盖了太阳能水加热、建筑物供暖与制冷，奥地利企业制造的表面收集器令人印象深刻，在全球范围内获得了很高的评价。

量身定制各类环境友好的单户和多户居家住宅、复式房屋、公共建筑、商业与工业设施，产自奥地利的产品就是高质量的代名词。

这也不足为奇为什么奥地利太阳能光伏设备人均安装面积在世界范围内名列前茅了。
Research and Development

The great success in the Solar Decathlon 2013 [http://www.solardecathlon.at], which was mentioned at the beginning, is proof of the good interaction between Austrian educational institutions.

The Technical University of Vienna [http://www.tuwien.ac.at/en] contributed its great know-how in passive houses, the Salzburg University of Applied Sciences [http://fh-salzburg.ac.at/en] its knowledge in timber construction, and the St Pölten University of Applied Sciences solutions in the field of communication strategy [http://english.fhstp.ac.at].

The Austrian Institute of Technology has created a special department dedicated to the increasingly important area of the building sector, which researches into innovative energy solutions for the built environment – from domestic technology to the actual building and to city planning [http://www.ait.ac.at/departments/energy].

The European Sustainable Energy Innovation Alliance (eseia – http://eseia.eu/) was founded in 2009 as the result of an initiative by the Technical University of Graz [http://portal.tugraz.at]. 30 organisations from 12 European countries are members of eseia, all of which come from the fields of economy, science, education and politics and cover all areas of competence of sustainable energy, from resources to consumption.

The aim of the eseia association is to find sustainable energy solutions for the European regions.

The Technical University of Vienna is currently working on the project UNIVERSITY 2015 [http://www.university2015.at/en], which aspires to put research results into practice, to think in terms of sustainability and to set good examples.
Further relevant links

Austrian Biomass Association
http://www.biomasseverband.at

Austrian Energy Agency
http://www.energyagency.at

Austrian Institute of Technology
http://www.ait.ac.at

Austrian Society
for Environment and Technology (0GUT)
http://www.oegut.at

Austrian Society
for Sustainable Real Estate
http://www.ogni.at

Austrian Sustainable Building Council
http://www.oegrb.net

ARGE Starkholz Salzburg
http://www.starkholz-salzburg.at

Umbrella Organization
Energy-Climate Protection
http://www.energieklima.at

Holzcluster Steiermark
http://www.holzcluster-steiermark.at

IBO – The Austrian Institute
for Healthy and Ecological Building
http://www.ibo.at

IG Passivhaus
http://www.innovativegebaeude.at

Passivhaus Austria
www.passivhaus-austria.org

Photovoltaic Austria
http://www.pvaustria.at

ProHolz
http://www.proholz.at/proholz-austria

The Austrian Climate Initiative „Klima-aktiv“
http://www.klimaaktiv.at

其它相关信息链接

奥地利生物质能联合会
http://www.biomasseverband.at

奥地利能源署
http://www.energyagency.at

奥地利国家技术研究院
http://www.ait.ac.at

奥地利环境和技术协会
http://www.oegut.at

奥地利可持续地产经济协会
http://www.ogni.at

奥地利可持续建筑协会
http://www.oegrb.net

萨尔茨堡ARGE Starkholz木材联合公司
http://www.starkholz-salzburg.at

奥地利能源和气候保护联合会
http://www.energieklima.at

施泰尔马克州木材行业协会
http://www.holzcluster-steiermark.at

IBO – 奥地利健康和生态建筑研究院
http://www.ibo.at

IG 被动房协会
http://www.innovativegebaeude.at

奥地利被动房协会
www.passivhaus-austria.org

奥地利国家光伏行业协会
http://www.pvaustria.at

奥地利ProHolz木材行业工作联合会
http://www.proholz.at/proholz-austria

奥地利气候倡议组织 „Klimaaktiv“
http://www.klimaaktiv.at
AH3 Architects is a Waldviertler company in Horn/Lower Austria, well-known nationally and internationally for its focus on sustainability, ecology and timber construction. AH3 innovatively provides all customised and individual services to extremely high creative standards and through the employment of expert know-how, creativity and integrated planning.

The managing director and shareholder, architect DI Johannes Kislinger, founded the company in 1986. In 1995 it expanded to form ZT KEG and since 2002 has been active as the AH3 ZT GmbH, currently employing twelve people in two locations.

The company is specialised in: prefabricated timber construction, systems and modules, passive house development, ecology and sustainability, innovative building concepts.

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ARCH+MORE stands for a comprehensive architectural concept:

- the best possible combination of aesthetics with energy efficiency
- intelligent, holistic building concepts
- integrative planning processes with building contractors, operating companies, engineers, authorities and contractors

The field of activity ranges from commercial and industrial buildings to residential homes and complexes, municipal and sacral building projects. Particular focus lies on the redevelopment and revitalisation of existing buildings and structures.

ARCH+MORE creates atmosphere.

VELDEN LINZ VIENNA
The core competence of the 450 architects and engineers at ATP is the comprehensive planning of complex large-scale projects for tourism, shopping & entertainment, industry, logistics, housing and health care.

We provide all planning services by simultaneous and interdisciplinary processes and we support our clients from the project concept to the completion of the building.

The systematic involvement of the customers thus ensures high quality sustainable buildings and optimized life cycle costs which best support the core processes of our customers. ATP stands for functional aesthetics, innovation and for economically and ecologically successful buildings.

ATP建筑设计工程公司拥有450位建筑设计师和工程师组成的核心人才团队，提供旅游、购物、娱乐、工业、物流、居住与卫生保健等领域复杂大型建筑的综合设计。

我们提供跨领域、同步进行的设计规划服务，在项目策划和施工完成方面为客户提供支持。

客户积极参与式的机制确保了可持续建筑的高质量与最优的寿命周期成本，在核心过程中为客户提供最好的支持。ATP公司代表着功能性美学，创新理念以及在经济和生态方面均获得成功的建筑。
The Bilfinger Berger Baugesellschaft m.b.H. is based in Vienna. In addition to an office in Linz, the company also has offices and interests in Hungary, Romania, Slovakia and the Czech Republic.

As part of the Bilfinger Berger SE Multi Service Group and a 100% subsidiary of the Bilfinger Berger Ingenieurbau GmbH, customers benefit from the experience, the expertise and the innovation power of a strong, internationally positioned company.

Bilfinger Berger carries out challenging construction projects for clients in the private and public sector and develops complete solutions for real estate, infrastructure and environmental projects, from the planning to the implementation and operation.
Cree GmbH

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Cree – Creative Resource & Energy Efficiency. We see ourselves not only as a contracting company but also as a source of ideas and initiator of new strategies for sustainable treatment of our resources. The innovative system using timber as a building material sets an example for the efficient use of resources and energy in the construction industry of the future.

The means of construction allow freedom in the architectural design of the facades, the surfaces and the interior space. Prefabricated components such as columns, ceilings and building technology guarantee short construction times, the highest quality and functionality.

The LifeCycle building system is implemented under licence or in joint ventures with local companies.

Cree一创新资源与能源效率。我们对自身的定位不仅限于一家施工承包企业，而是创意的提供者，可持续资源新战略的倡导者。在我们的创新体系中，木材被定位为建筑原料，这为未来的建筑业树立了一个资源和能源有效利用的新标杆。

这样的建筑方法为建筑立面、表面与室内空间的设计提供了自由度。格栅、天花板的预制组件与施工技术能有效缩短施工周期，同时确保高品质与功能性。

建筑生命周期循环体系经授权或者以合资形式已经与当地企业共同付诸实施。
cube-s Baumanagement GmbH

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cube-s is an innovative company involved in the sustainable design and implementation of passivhaus buildings. Its founder and managing partner Johannes Hofmeister plans, develops and implements energy-intelligent solutions for more than 15 years.

The passion for innovative concepts leads to the concept of the green cube: the integration of best passivhaus-technologies to a compact, easy to use, plug-and-play solution.

Austrian top know-how becomes the engine for energy efficient building constructions.
According to a study by the World Business Council for Sustainable Development, the building sector has an energy saving potential of 60% by the year 2050. In addition to energy efficiency, the choice of location, the planning, the choice of raw materials as well as the taking into account of the running costs are all important. Therefore it makes sense and proves to pay off to have an experienced partner like ourselves.

Consulting for sustainable construction:

- from building contractors, developers and planning teams for the sustainable planning and construction of buildings
- systematic consideration of the ecological, economic, socio-cultural, functional and technical quality as well as the quality of the process and location
- advice on applying for sustainability certificates for buildings
Founded in 2003 by Arch. DI Klaus Duda and Arch. DI Erik Testor, DTA provides planning services in all areas of architecture (commercial buildings, offices, housing, care homes, schools, etc.) focusing on energy efficient construction, passive house technology and sustainable urban planning.

DTA designs buildings with low energy, passive house and plus-energy standards and oversees projects from the design stage to quality control either independently or in cooperation with local partners.

Our range of services also includes project development, consulting, building certification (LEED, DGNB, PHBB) as well as training and seminars in the field of green building technology.

公司由建筑师DI Klaus Duda和Arch. DI Erik Testor于2003年创立，DTA公司提供建筑设计所有领域（商业建筑、办公楼、住宅、护理机构、学校等）的规划服务，致力于高效节能建筑、被动式房屋技术和可持续性城市规划。

DTA公司设计低能耗、被动式和正能源标准的建筑，独立或者与当地合作伙伴一同提供从设计阶段到质量控制的项目统筹服务。

我们的服务包括了项目开发，咨询，建筑认证（LEED，DGNB，PHBB），以及绿色建筑技术领域的培训与研讨。
The modular timber construction system

A unique concept for industrial and commercial buildings in passive house quality

- eco²building is ecological
  90 percent reduction of heating and air-conditioning requirements thanks to an optimized energy efficiency and building services concept

- eco²building is economical
  Reliable financial planning thanks to fixed price offers and complete management; 30 percent shorter implementation phases thanks to a high degree of prefabrication

- eco²building is high quality
  Best workmanship thanks to competent and experienced project partners and comprehensive quality management; a modular construction system customized to your corporate design

模块化的木结构建筑体系

在工业、商用建筑被动房质量的独特设计理念

- eco²building的生态性
  最优的节能与建筑服务方案为您节省90%的供暖与空调能耗

- eco²building的经济性
  值得信赖的财务计划来自固定报价与全面管理；高度的预组装为您节省30%的施工时间

- eco²building的高质量
  有实力的、经验丰富的项目合作伙伴与全面质量管理为您提供最佳施工质量；模块化建筑体系可以为您的企业设计提供定制
The ELK Group is a leading company in the European prefab market. Highest quality, continuous product innovation, a high degree of prefabrication and short construction period have led the company to international success.

The ELK Group has production plants in Austria, the Czech Republic and employs more than 1,242 employees. In 2012, the ELK Group has produced 1,099 homes.

ELK specializes in the industrial production of prefabricated houses in timber frame technology. The product range of ELK comprises single-family homes, such as double row houses, commercial buildings (kindergartens, student residences), motels, hotels and the multi-storey housing.

Further Information:
www.elkbuildingsystems.com

ELK集团在欧洲的预制件市场享有领先的地位。顶级的质量，持续的产品升级，高度预加工和缩短的施工周期带领企业在国际市场上取得成功。

ELK集团在奥地利和捷克共和国设有生产厂，有超过1242名员工。2012年，ELK集团成功建造房屋1099幢。

ELK公司专业研究使用木框架技术的预制房屋的工业化生产，产品范围覆盖独栋家庭房屋、双排房屋、商业建筑（幼儿园，学生宿舍）、汽车旅馆、宾馆与多层住宅等。

更多信息请浏览：
www.elkbuildingsystems.com
“GHS Global Housing Solutions provide people with a home” is the motto of the Upper Austrian company. GHS is a specialist in the engineering and production of composite housing with flexible filling and of turn-key solutions for composite house construction.

Thanks to the GHS technology, well-designed houses made of massive materials can be built in only a few steps. Based on ready profiles, the houses are inhabitable within a very short period of time and are built to last for a long time.

The intelligent use of materials and connecting pieces means that the houses can withstand earthquakes and hurricanes.

“GHS全球住房解决方案为人们提供一个家”一直是位于上奥地利州的企业信条。GHS公司在复合住房的工程与生产上一直独树一帜，填料灵活，提供交钥匙整体解决方案。

得益于GHS的技术，选用坚固材料精心设计的住房仅需几步即可完成。在预制型材的基础上，住房可以在很短的时间内完工，达到可入住状态并且具有长期使用寿命。

通过合理使用材料与连接件，房屋可以抵御来自地震与飓风的侵袭。
With more than 360 employees and projects in over 100 countries, iC is one of the largest engineering firms in Austria. The company boasts a wide range of services, which allows interdisciplinary thinking and provides innovative solutions.

Our technical fields:
• Buildings & structures
• Construction & project management
• Energy
• Geology & geotechnical engineering
• Transport & mobility
• Technical building equipment
• Tunnelling
• Environment
• Water

Our services:
• Project planning & development
• Tendering & award of contracts
• Project management
• Regulation & control
• Studies & consulting
• Due diligence

拥有超过360名员工，项目遍及全球100余个国家，IC可以称得上是奥地利最大规模的工程企业之一。企业业务范围广，提供跨学科思维与创新性的解决方案。

我们的技术领域有：
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• 建筑与项目管理
• 能源
• 地质学与地质工程
• 运输与交通
• 高精建筑设备
• 隧道挖掘
• 环境
• 水源

我们的服务包括：
• 项目规划与开发
• 招投标
• 项目管理
• 管理控制
• 研究与咨询
• 严格评估
ILF Consulting Engineers is one of the leading engineering companies worldwide with more than 30 branch offices and 1800 employees. The range of ILF services includes consulting and studies, as well as support in planning and implementation.

At ILF ecological, economic (increase of the overall profitability) and social factors are taken into account in the sustainable planning and construction of both individual buildings and city districts. All areas of expertise are covered, such as architecture, energetic design, technical building equipment, construction physics and environmental relevance.

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ILF工程咨询公司是一家全球领先的工程企业，旗下有超过30家分支机构与1800多名员工。ILF公司的服务范围包括咨询与调研，同时也提供项目规划与实施服务。

ILF公司从生态、经济（增加整体盈利能力）和社会等多方面因素进行考量，为单一建筑和城市小区提供可持续的规划、建设，并且涵盖方方面面的专业知识，例如建筑设计、精建筑设计、建筑物理学和环境关联性等等。
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Lang Consulting, in collaboration with the Passive House Institute, is recognized as a qualified expert in its field through its intensive worldwide networking, research and consultancy work in all matters relating to passive housing. It aims to create a global passive house industry network and to increase awareness of the passive house standards.

The focus is on the passive house, energy efficiency and the „nearly zero energy building“:

- Initiation and implementation of research and demonstration projects and widespread dissemination of the findings
- Speaker at conferences and visiting lecturer at universities worldwide
- Tour leader for excursions to passive houses worldwide

Since 2013 Günter Lang has been the head of the expert network Passivhaus Austria www.passivhaus-austria.org.

Lang咨询公司与被动房屋研究所保持合作，凭借在被动房屋领域的积极建立的全球网络以及所开展的研究与咨询工作，一直被视为行业内信得过的专家机构。企业目标是营建一个全球性的被动式房屋产业联络网络，并提高人们对被动式房屋标准的认识程度。

公司的主要业务是被动式房屋，高效节能与“近零耗能的建筑”

- 推广并实施研究和示范性项目，并广泛传播相关知识和经验
- 在全球范围的会议上和作为客座讲师在大学进行相关发言
- 全方位组织参观被动式房屋

2013年起，Günter Lang已成为奥地利被动房协会联络网络的首席专家
www.passivhaus-austria.org.
The Ingenos.Gobiet.ZT GmbH is one of the largest Austrian freelance civil engineering offices. Our broad range of single source services extends from project development to building supervision.

The team at Ingenos.Gobiet.ZT GmbH is currently made up of 120 employees from all constructional areas.

The managers, employees and partners are all qualified experts in their respective specialist areas. Their extensive know-how means that Ingenos.Gobiet.ZT GmbH has the potential to solve complex technical, economic and ecological tasks.
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Jäger Bau GmbH is an ÖKOPROFIT certified industrial company with around 650 employees. The major areas of business are project development, construction, civil engineering and underground construction.

The clients’ requirements are fulfilled through a high level of expertise, performance and passion for innovation.

Special value is set on the use of natural and energetically sensible materials. Resources and energy are used sparingly to avoid unnecessary pollution.

Alternative heating systems (e.g. geothermal heat) are largely used in the project development.

Jäger建筑有限责任公司是一家获得ÖKOPROFIT认证的实业公司，有近650名员工，主要的业务范围有项目开发、建筑、土木工程与地下建筑工程。客户的要...
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Knauf has been supplying the Austrian market since 1970 with forward-looking system solutions based on plaster, chalk, cement, chemical and metal profile technologies for construction projects of the highest quality.

The development of complete drywall construction systems has had a significant impact on structural design in general and is essential for modern construction methods. Knauf GmbH uses all available resources in an efficient, environmentally-friendly and cost-effective manner.

The product range offers:
- Knauf DIY products
- Knauf panels and accessories
- Knauf profiles and fitting accessories
- Knauf adhesive gypsum and filler products
- Knauf plasters, renders

Knauf公司自1970年开始就不断地为奥地利市场提供前瞻性的建筑方案，并基于石膏、白垩岩、水泥，化学制剂和金属型材技术来完成高质量的建筑项目。

全套干作业墙体建筑系统的开发对建筑结构设计产生了重大的影响，已成为现代施工方案不可或缺的普遍方法。Knauf公司利用一切可用的资源来实现节能、环境友好与成本效益。

产品领域覆盖：
- Knauf DIY产品
- Knauf 面板与配件
- Knauf 型材与安装配件
- Knauf 粘胶剂石膏与填料产品
- Knauf 石膏和灰浆
LEEB Balkone GmbH

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LEEB is Europe’s leading manufacturer of balconies and fences made of wood or aluminium. No matter whether for a new building, renovation or extension – LEEB has a suitable balcony or fence for every style of building. More than 100 models can be delivered.

LEEB is the only manufacturer to offer the VA-CU-Protect® complete impregnation for wood materials. The impregnation guarantees a top appearance, durability and optimal protection against the sun, wind, weather conditions and pest infestation.

The LEEB aluminium programme is ideal for building contractors and renovators with high design standards. Thanks to a high quality powder coating LEEB aluminium balconies require virtually no care or maintenance.

LEEB公司是欧洲领先的木制或铝制阳台与栏杆的生产商。无论是新建筑还是旧建筑翻新—LEEB公司提供多达一百余种的阳台或栏杆式样，足以满足各式各样建筑的不同需求。

LEEB公司是仅有的能够提供VA-CU-Protect®完整浸渍木材料的生产商。此种浸渍工艺下，材料外型美观，坚固耐用，在抵御阳光、风、不同气候条件及虫害侵蚀上均有极佳表现。

LEEB公司的铝材料是具有高设计要求的建筑承包商和翻修施工单位的理想选择。受益于高品质的粉体涂料，LEEB的铝制阳台也基本不需要进行更多的保养和维护。
Lukas Lang Building Technologies plans and erects wooden buildings based on a pioneering construction concept. A modular system puts into practice the vision of industrial construction. Aesthetic designs replace traditional ideas about wood architecture.

The flexibility of the modular system guarantees that buildings can undergo modifications and still maintain their value.

In addition to individual solutions the modular system enables simple, rapid planning and construction of office buildings (administration buildings) and detached, semi-detached and terraced housing developments.

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Lukas Lang 建筑技术公司采用先进的建筑理念来设计和建设木结构建筑，模块化系统支持实现工业化建筑的愿景，充满艺术感的美学设计取代了传统的木结构建筑理念。

模块化系统的灵活性保证了建筑物可以重复修改且仍然保持其品质。

除了独立解决方案，模块化系统还能够快速、简单地设计建造办公楼（行政楼）和独栋、双户连体及联排房屋。
Nemetschek Engineering GmbH

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Nemetschek Engineering develops and markets software for the precast concrete industry.

„Allplan PRECAST“ is the successful and internationally leading system for precast parts planning. As an integrated solution, Allplan PRECAST unites the strengths of 2D CAD and 3D BIM work.

„TIM“ Technical Information Manager links the various departments of the precast company. Easy to use, TIM provides information about projects, their structure and status, and immediately visualises the content - either as a virtual model or in the form of a table. Even delivery and assembly planning can be operated virtually.

You can rely on our high-performance software and on first-class, flexible and customer-oriented services.

Nemetschek工程公司开发、销售预制混凝土工业的软件。

“All plan PRECAST（全部预制）”在预制部件设计中是非常成功和国际化的领先系统。作为一个集成解决方案，All plan PRECAST集合了2D CAD与3D BIM工作的优势。

“TIM”技术信息管理者连接了不同部门的预制件企业，便捷实用，TIM提供项目信息及其结构与状态，使内容立刻呈现一用表格的形式或者是可视化模型。即使是交付与装配计划也可以可视化地来进行操作。

顾客可以完全信赖地享用我们高效能的软件与一流、灵活和以顾客为中心的服务。
oa.sys baut has developed from the traditional timber construction industry to become a versatile construction specialist. The company’s internal staff structure and the close cooperation with external network partners make it possible to offer all services from a single source.

Lateral thinking is the recipe for success, which meant that oa.sys.baut was able to win many large projects.

Many years of experience in timber construction, comprehensive know-how and a team which is open to new ideas make oa.sys.baut the ideal partner for the planning and building of single and multi-family homes, hotel construction, industrial and commercial construction, renovations, classic wood construction and masonry.
As a major international construction company PORR can build on more than 140 years of experience. It has been, and continues to be, involved in the construction of many important buildings and projects both at home and abroad.

In particular PORR provides wide-ranging know-how in the fields of foundation engineering, transport infrastructure construction, tunnel construction, power station construction, railway construction, logistics, bridge construction, environmental technology, post-tensioned structures and pipe network construction.

An additional area of specialist competence focuses on operator and concession models in the water, energy, waste and transport sectors. Long-term market opportunities are also supported by the availability of stone, gravel and landfill site resources in company ownership.
Our expertise and our focus lie in the planning and implementation of holistic sustainable building concepts.

Through intensive research activity, as well as over 30 years of experience with solar, ecological and energy-efficient construction, we can showcase the latest findings of applied research in flagship projects, where the focus is on sustainable added value and maximum user comfort.

The first passive house project in the tropics, and simultaneously the world’s first sustainable embassy building, is one built example of our planning expertise.
Prilhofer Consulting is an independent consultancy and world market leader in the industrial production of concrete prefabricated buildings. Over the years, we have successfully introduced concrete precast technology in various countries around the world.

Our services include: Strategic consulting, determination of the basis for the investment planned in the form of a study report (layout, profitability calculation, etc.), to give you the highest possible security for your decision.

Assistance in the establishment and coordination of the precast concrete factory and the technical office, staff training, all logistical matters regarding the industrial production of buildings to the finished product – the prefabricated house.

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Architecture office in Vienna

The schluder architektur office concentrates mainly on residential and office construction. A few years ago the recent trend towards modern timber frame architecture in the city was addressed – timber as a construction material is an ever recurring topic, not least because of the current debate on climate and the necessary ecologisation of the cities.

Areas of activity:
Vienna – Austria – Berlin

Topics:
housing construction – office construction – shop conversion – building with old material

Special topic:
multi-storey timber construction | hybrid systems, low energy systems

Cooperative planning structure with Alpha EE Austria [http://www.alpha-ee.at]
The company SFL technologies pursues a holistic approach, making use of the eight intersecting specialist areas and combining technologies with know-how.

The department of energy technology works in cooperation with the R&D of fibag (Forschungszentrum für integrales Bauwesen AG - http://www.fibag.at).

- Project-oriented abc-concepts (active base concept)
- Photovoltaics
- Solar thermal energy
- Wind power converters
- Sustainable solutions for sun screening
- Integration of energy-producing components and applications in and on facades
- Development of highly efficient facades
- Lighting technologies and integration of LEDs

SFL integrates energy solutions provided by fibag into facade construction, glass technology und lighting technology.
Our architecture is as unique as our clients!

A building must always engage in a dialogue – with its surroundings and the people who use it. Our architecture is always tailored to the needs of the people who live, work or spend their leisure time in our buildings.

We also pay attention to our buildings’ surroundings, and use them as a source of inspiration. Because the brief, site and client are never the same twice over, every project is unique – and so are our solutions.

Sustainable Building | 规划设计与建筑方式
Planning and Construction | 规划设计与建筑方式

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W www.soehnepartner.com

Our architecture is as unique as our clients!

一个建筑必须被经常置于交流的环境一与它周围的环境和使用它的人。我们的建筑师会根据在房屋中生活、工作或打发闲暇时间人们的需求，为其量身定制合适的建筑。

我们同样将注意力放在房屋的周边，将其作为一种灵感的来源。因为对于每一个建筑来说，诉求、地点和客户都是独一无二的，所以每个项目都是特别的，我们的每个解决方案也都是特别的。
Create networks, exchange knowledge, join forces – in keeping with this credo STRABAG SE, the leading construction company in Central and Eastern Europe, unites the expertise of well-known brand names under one roof.

Through the intensive cooperation with numerous subsidiaries and associated companies, milestones in civil engineering are created globally.

Thanks to the local know-how, the company’s own raw material network and a wide spectrum of services, the STRABAG SE is well known as a reliable partner for challenging building projects beyond the Austro-German borders into East and Southeast Europe, as well as in many West European countries and on other continents.
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timbertrend
... meets all your timber requirements and in addition represents SCHOLZ® autoclave equipment in Italy and the PU adhesive XYLO-BOND T (manufactured by Collanti Concorde – IT) in Austria, Germany and Switzerland.

timbertrend
... as partner of the forum_holzbau, a forum for timber construction, organizes top international congresses such as the Forum | Legno | Edilizia | Italia.

timbertrend
... provides efficient access to a network of decision makers in the timber industry and offers assistance in entering the market, as well as in the search for new partners and fields of business.

For further information please visit:
www.timbertrend.at
The internationally successful Unger Steel Group supplies know-how gained over many years in all fields of the construction industry.

Activities range from steel frame construction to ready-to-use delivery of complete projects as a general contractor and to Real Estate development.

20 subsidiaries in West, Central and Eastern Europe and the Middle East provide regional access to all the group’s services.

Two production plants - in Austria and in Sharjah (UAE) - are the logistical hubs for first class deliveries in the shortest possible times.

With an overall annual capacity of 70,000 tons for the two plants, small-scale projects right up to ready-to-use solutions for complex construction projects can be delivered quickly and to the customer’s satisfaction.
VPG Verbundsysteme
Planungs-Produktions-BaugesellschaftmbH

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As an innovator and longstanding specialist in the field of composite formwork technology the VST Group not only develops patented solutions but also provides a complete range of construction project services.

Although there have been numerous developments in the building materials and construction machinery sectors, the methods used have remained unchanged for generations. The VST Group has recognised the limitations of these systems and successfully overcome them by developing its own highly productive and easy-to-use composite formwork system.

This system has allowed us to create a made-to-measure solution for construction industry clients, based on the principle of industrially prefabricated stay-in-place formwork.

VST集团历史悠久，不断创新，是复合模板技术领域的专家，不仅开发了多项专利，还提供一系列完整的建筑项目服务。

尽管我们已经在建筑材料和建筑设备领域取得了相当多的突破，但施工的方式几代以来仍然保持着传统，未曾改变。VST集团认识到这些系统产品的局限性，并且通过开发独有的高生产率、易于使用的复合模板系统成功地将其克服。

这一系统使我们能基于工业化预制模板的特性，为建筑行业的客户提供定制的解决方案。
The success of the Waagner-Biro Group is based on engineering know-how at the highest level and 160 years of experience in steel and engineering.

The steel and glass technology division is specialist in modern architectural steel construction and works together with leading international planners. The customer is presented with solutions with improved sustainability.

With its bridge building division Waager-Biro is internationally active in bridge building, engineering and steel construction, as well as railway technology.

Waagner-Biro is also one of the most significant suppliers worldwide in stage technology for renowned opera houses and theatres, as well as event locations.
WIEHAG GmbH Timber Construction has more than 160 years of experience in timber construction. As Europe’s leading specialist for broad supporting systems and complete roofs, WIEHAG can boast numerous references in trade fairs, sports and industrial buildings, as well as for special contracts, e.g. the tax office in Garmisch-Partenkirchen, Ice Park Eilat or the Bangor Leisure Centre.

Other areas of business: glue laminated timber for finished joined support system solutions and individual components, Profidec - the ready-to-install glued laminated system for roofs, ceilings and walls, three-layer natural wood panels for interior and exterior use, as well as top formwork panels.

WIEHAG 有限责任公司在木结构建筑领域有超过160年的经验。作为欧洲领先的支撑系统和全套屋顶专家，WIEHAG公司在贸易展览会、体育场馆与工业建筑等项目上都有着骄人的业绩，同时也承接过许多特别的建筑项目，如Garmisch-Partenkirchen的税务局、Eilat冰公园、Bangor 休闲娱乐中心等。

其他领域业务：用于已完成的支撑系统方案的胶合木板与各个组件，用于屋顶、天花板与墙面的现成胶合板，用于内外墙面的三层天然木板，顶级模板面板。
Wolf Modul GmbH supplies a packaged set of prefabricated parts that are best suited for economical shipping worldwide. Most of the parts can also easily be produced locally. This ensures that the system offers very good value for money and the construction method can be used everywhere.

Construction costs are kept low by using local building services or adopting a self-build approach for most of the work.

It goes without saying that Wolf Modul meets low energy house requirements and complies with current technical standards and building regulations! A healthy, pleasant home environment is one of life’s fundamental necessities.

Wolf Modul 有限责任公司提供整套打包的预制部件，最适用于全球范围内经济划算的海运。大多数部件都可简单地由本地生产，这确保了供应过程中物有所值，且施工方法各处通用。

通过选用本地建筑服务或大多数工作采用自己动手的方法，建筑成本可以控制在低水平。

无需多言，Wolf Modul产品符合低能耗房屋的需求并完全依照了最新的技术指标和建筑规范。健康而又舒适的房屋环境是每个人一生中最重要的基本需求之一。
WOLF Group - Innovative construction technologies for the future!

The WOLF Group has more than 45 years of experience in sustainable construction. In this time we have continuously developed and improved our offer. WOLF is your partner for prefabricated houses, industrial and commercial buildings and cylindrical tanks.

We provide a total concept which is individually tailored to suit each project from planning to completion. Our building assignments are determined by functionality and cost which are adapted according to the required specifications. Sparing use of all natural resources, sophisticated innovations and optimal energy savings reflect our responsible approach to nature.

WOLF集团—引领未来的创新建筑技术!

WOLF集团在可持续建筑领域已逾45年的经验，在此期间，我们持续不断地对产品进行研发和改进。WOLF公司是您在预制房屋、工业或商业建筑、圆柱形储罐领域的合作伙伴。

我们提供一站式的服务，为每一个客户量身定制合适的项目，从计划到完成。我们的建筑设计由功能性和预算而定，依照所需的要求进行改变。节约使用自然资源、充满智慧的创意、优化的能源储存都能体现出我们保护自然的责任理念。
Zone Architects – the office for architecture, urban planning and design – was founded in 2000 by the architect Nikola Popovic.

Analysis and development of concept, design and submission plans, detailed construction planning.

Artistic and on-site supervision.

General planning services and consulting.

Work by the Zone Architects is, from the design stage onwards, as interdisciplinary as possible. Appropriate experts are involved from the very beginning in the development of the projects.

Zone 建筑设计事务所从事建筑设计，城市规划和设计，于2000年由建筑师Nikola Popovic成立。

提供项目分析和设计方案策划，设计草案和方案提交，具体施工方案

提供艺术性与现场监管

提供整体规划服务与咨询

Zone 建筑设计事务所的工作从设计策划阶段开始便尽可能地跨学科展开，主要专家自项目启动之初起便介入其中。
Energy saving and design – ACTUAL offers innovations in windows. The company is a full-service provider for windows, doors and sun protection. The ACTUAL Fenster AG Group has been producing innovative window and door technology in Austria for around 40 years.

ACTUAL was the first company in Austria to develop and produce profile and window systems on its own. ACTUAL was also the first company to present lead-free window profiles.

For distribution ACTUAL relies on ACTUAL partners as part of a franchise system which it is constantly looking to expand. More than 120 partners are already active in the core markets of Austria, Germany, Hungary and Italy.

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50 FRESH VIEW
AGRU Kunststofftechnik GmbH has 800 employees worldwide and ranks among the most important international manufacturers of innovative plastic products for liners, pipes, piping system components, concrete protection liners and semifinished products.

The uniquely superior quality of our products, based on decades of experience in plastic processing and our highly competent technical advice and service, is attested to by our satisfied customers and our ISO-9001 certification.

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Alfred Vesely Timber-Export e.U. is one of the leading suppliers in Austria of sawn timber (e.g. spruce and fir) to the Middle East as well as to North and East Africa.

A trained team in the Vienna headquarters is committed to handling all orders individually and coordinating the international representatives. Alfred Vesely himself is in direct contact with the customers.

The wood is dried, impregnated, pressed into packaging, divided into bundles and marked in the terminal in the port of Koper in Slovenia.

Alfred Vesely 木材出口 e.U.公司是一家奥地利领先的成型木材供应商（如杉木与枞木），产品出口中东以及北非和东非。

在位于维也纳的总部，训练有素的专业团队独立处理各类订单，并且协调各国际代表处的工作。Alfred Vesely 公司保持直接与每一位客户建立联系。

在抵达斯洛文尼亚科佩尔港后，木材经过干燥、浸渍与层压后分拣装箱。
Reclaimed wood.

Many years ago people used to hew beams by hand. Sun, wind and weather leave their unique mark on timber surfaces. Old floorboards carry the memory of countless footsteps. This patina has stories to tell and inspires those who see it.

Today reclaimed wood is used in modern architecture, interior design and exclusive furniture. Altholz Baumgartner & Co has specialised in reusing and processing this valuable resource.

再生木材

多年以前人们还手工砍下巨木，阳光、风雨以及气候都在木材表面留下了独有的痕迹，旧地板上留下了无数脚步的回忆，所有的一切都诉说着故事并激发了见证者的灵感。

如今，再生木材被使用在现代建筑、室内设计与定制家具中。Baumgartner再生木材公司对于如何挖掘和利用这些充满价值的木材资源有着专业独特的见解。