



世界资源研究所  
中国办公室  
China Office,  
World Resources Institute

# China Energy Efficiency Financing

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The China Energy Efficiency Financing project seeks to help remove one of the principal barriers to implementing energy efficiency projects in the industrial sector in China – lack of access to financing sources under reasonable terms. Ultimately, the project intends to help Chinese industrial companies meet their energy efficiency needs and help China achieve its carbon and energy intensity reduction goals.

Industrial energy use is 70% of total energy consumption in China. Finding ways to make the industrial sector more energy efficient is key to achieving China's energy and carbon intensity targets as well as key to helping companies meet their own energy efficiency targets and/or those of their large customers. While much attention has been given to the top 1,000 energy use enterprises in China, there is an increasing need to support the sustainability efforts of the next tier of industrial companies of China. Often times, these companies face a variety of difficulties in financing energy efficiency projects, such as i) lack of internal capacity to identify financeable energy efficiency projects and ii) difficulty in securing attractive external financing for energy efficiency projects at reasonable terms. Providing these companies better access to attractive external financing will help them invest in energy efficiency as well as help China meet energy intensity and carbon intensity goals.

Barriers to energy efficiency persist in industry, and improvements in capacity, policies, and access to financing (existing and new sources) are needed to encourage and increase EE investments. WRI will target breakdowns in the process of EE financing and work closely with its partners, including

Shanghai Jiao Tong University (SJTU), to explore a model for industrial EE financing, seeking to bundle energy efficiency projects and facilitate financing for the bundled portfolio in Shanghai. As an established partner of the WRI EE Financing project, SJTU has conducted energy audits for more than 30 companies in the Shanghai area in recent years. However, due in large part to lack of financing, most of the energy efficiency projects identified in these audits have not been implemented, a common challenge among identified energy efficiency projects. WRI will work together with SJTU and collaborate with other partners to find ways to bundle these projects into a portfolio and connect the portfolio to financing sources to get them implemented.

Through the process, WRI will work with partners to build industries' capacity to identify financeable energy efficiency projects and work more effectively with financiers and energy services companies (ESCOs) to implement these projects. WRI will also use the exploration as a means of identifying policy support mechanisms for government and guidance for lenders and borrowers on EE financing.

By building the capacity of industries on energy efficiency financing as well as identifying and aggregating financeable projects together with partners, WRI will help more energy efficiency projects secure financing and get implemented and thus reduce energy consumption from the industrial sector in the Shanghai area. WRI is expecting to expand and replicate the portfolio-based financing model to one or two other provinces in China after the Shanghai phase.

Partner .....

Supporter .....



### About WRI

The World Resources Institute (WRI) is an independent, non-profit environmental think tank that goes beyond research to find practical ways to protect the earth and improve people's lives.

Governed by an independent international board, WRI has a global reach having over 200 employees from about 30 countries. They are working with more than 400 partners in 50 countries. WRI's China Office opened in 2008, and is its first permanent overseas office as an integrated country program.

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## 中国能效融资

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中国能效融资项目，旨在帮助消除中国工业部门能效项目实施的主要障碍之一，即筹集优惠合理资金的困难。世界资源研究所希望本项目能在工业企业力图改善能源使用效率、中国努力实现节能减排目标过程中起到积极的作用，贡献一份力量。

在中国，工业能源使用量占全国能源消费总量的70%左右。找到切实有效的提高工业能效的方法是实现中国节能减排的总体目标、满足企业和其主要客户提高能效需求的关键。中国千家重点用能企业已受到多方关注与扶持，但越来越有必要支持其他用能较少的工业企业提高能效、实现可持续发展。这些企业常常面临能效项目融资的重重困难，例如1) 企业内部缺乏发现可融资能效项目的能力2) 缺乏为能效项目吸引外部合理资金的经验与方法。帮助工业企业寻求优惠合理的外部资金，就可以帮助企业实现能效投资的愿望，帮助中国实现节能减排目标。

工业企业能效提高的障碍存在已久。要提高能效，就需要提高企业自身能力、改善政策环境、改善既有融资渠道和开发新的融资渠道。世界资源研究所将与合作伙伴紧密合作，针对节能融资的种种屏障，共同探索新的工业能效融资模式 - 能效项目组合融资，帮助扶持上海多个能效

项目捆绑组合，实现融资。作为世界资源研究所能效融资项目的既有合作伙伴，上海交通大学近年来对30多家上海地区的公司进行了能源审计。然而，很多情况下由于企业缺乏资金、融资困难，上海交大能源审计诊断建议的能效项目大多没有得到落实。这一现象普遍存在。世界资源研究所将与上海交大以及其他合作伙伴一起，寻求打捆节能项目的具体方法，探索为打捆的项目组合实现融资的具体途径，使单个节能项目得以实施。

在项目实施过程中，世界资源研究所将与合作伙伴共同努力提高工业企业识别可融资能效项目的的能力，提高企业与金融机构和能源服务公司(ESCO)更有效地合作实施能效项目的的能力。世界资源研究所也将借此机会探索政府支持能效融资的政策机制，开发借贷方节能融资指导手册。

通过与合作伙伴一起努力提高工业企业能效融资能力并识别和打捆融资性好的能效项目，世界资源研究所将帮助更多的单个能效项目获得可靠的资金并得以实施，从而改善上海地区工业部门的能源消耗。未来，世界资源研究所期待在除上海之外的其他一、两个省份进一步地尝试，推广这一以捆绑组合为基础的能效项目融资模式。

合作伙伴 .....

资助方 .....



### 关于世界资源研究所

世界资源研究所是一家独立的非盈利性环境资源智库，致力于开展关于保护环境和改善民生实际解决方案的研究活动。

世界资源研究所理事会由来自世界多个发达与发展中国家具有影响力的资深学者、企业家、前政要、社会活动家和NGO代表组成；研究所200多个雇员来自30多个国家，业务活动遍及全球50多个国家，400多个合作伙伴遍布世界各地。2008年开办了中国办公室，是在总部之外的第一个国别办公室，也是第一个综合的国别项目。

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