

第二、三产业增加值占GDP比重变化 与三次产业结构调整节能趋势图(2) Changes in the proportion of secondary and tertiary sectors within China's GDP(2)

年份Year	2006	2007	2008	2009上半年 2009 Q1&2	累计 Total
第二产业比重变化 Changes in the proportion of secondary sector within GDP	+1%	-0.1%	+0.1%	-0.8%	+0.2%
第三产业比重变化 Changes in the proportion of tertiary sector within GDP	-0.1%	+0.1%	-0.3%	+0.5%	+0.2%
三次产业结构节能 (万吨) Structural energy saving of the three sectors (10k ton)	-3046	100	-313	1530	-1729

第二产业占GDP的比重居高不下是导致三次产业结构调整对节能贡献不明显的主因。 The main reason for negative energy-savings from structural adjustment among the three sectors is the high proportion of the secondary sector within GDP.

高耗能、高技术行业增加值比重变化 与第二产业结构节能量变化趋势图(1) Changes in the proportion of high energy-consuming and high-tech sectors within China's GDP and the secondary sector's structural energy savings(1) 高耗能、高技术行业增加值比重变化 与第二产业结构节能量变化趋势图(2) 清华大学能源环境经济研究所 INSTITUTE of BRUESCY EMURICONMENT and ECONOMI TENGRILLA UNIVERSITY

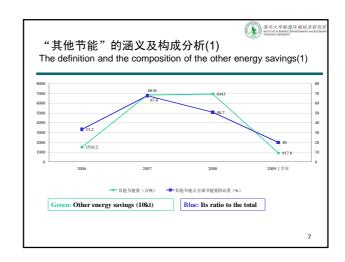
Changes in the proportion of high energy-consuming and high-tech sectors within China's GDP and the secondary sector's structural energy savings(2)

年份 Year	六大高耗能行业占工 业增加值比重 Ratio of six high energy consuming industries in industrial value added (%)	同比变化量 Variation	高技术行业占工 业增加值比重 Ratio of high tech industry in industrial value added (%)	同比变化量 Variation	第二产业内部结构节能 (万吨) Structure energy- saving of the secondary sector (10kt)	
2005	31.31	0	10.5	0	0	
2006	31.27	-0.04	10.7	0.2	1364	
2007	32.12	0.85	10.6	-0.1	-3400	
2008	32.25	0.13	10.7	0.1	-396	
累计 Total		0.94		0.2	-2450	

六大高耗能行业占工业增加值比重不降反升,高技术制造业占工业增加值的比重上升级慢是第 二产业结构节能成效不明显的基本原因。

The internal structural adjustment of the secondary sector is not energy-efficient because the growth in the proportion of high energy consuming sectors within the secondary sector is faster than that of high-tech sectors.

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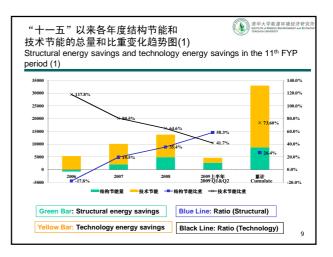
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"其他节能"的涵义及构成分析(2)

The definition and composition of other energy savings (2)

- 其他节能主要包括行业内部子行业构构节能、子行业内部产品结构调整节能和增加。
 是产品结价值的分配的对象的人类。
 基本提供的工作。
 其实对象的人类。
 其实对象的人类。
 其实对象的人类。
 有数,"其它节能"中结构节能的结别。
 有3/4,其中的方面,有数据的方面。
- 由于06-08年都有一些因素对 总体节能的贡献为负,抵消 了别的因素的节能贡献,导 致"其他节能"在总节能量 中的比重较高。
- "Other" includes sub-sectors; products structural energy-saving, especially product value chain upgrading and improved unit product value added; and other tech energy-saving. It is estimated that structural energy-savings is about 3/4 and other product technology energy-savings is about 1/4 of the "other".
- A high ratio of the "other" energy-savings in the total is because industry and sector structural energy-savings are negative, which cancel out other factors' contribution to energy-savings.

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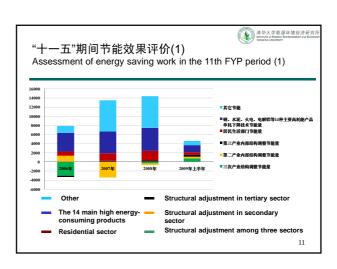


"十一五"以来各年度结构节能和技术节能的¹总量和比重变化趋势图(2)

Structural and technology energy savings in the 11th FYP period (2)

年份 Year		内节能 nergy savings	技术节能 Technology energy savings		
	数量(万吨) Amount (10k ton)	比重 (%) Percentage (%)	数量(万吨) Amount (10k ton)	比重(%) Percentage (%)	
2006 -814.2		-17.8%	5285.1	117.8%	
2007	1971.1	19.5%	8116.0	80.5%	
2008	4847.4	35.4%	8850.7	64.6%	
2009上半年 Q1&2 2009	2676.9	58.3%	1912.1	41.7%	
累计 Total	8681.2	26.4%	24263.9	73.6%	

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清华大学能源环境经济研究/ MOTITUTE of ENERGY ENVIRONMENT and ECONO "十一五"期间节能效果评价(2) Assessment of energy saving work in the 11th FYP period (2)

从总体上看,截止到2009 年上半年,结构节能和技 术节能对全部节能的贡献 率分别为26.4%和73.6%; 各年度环比技术节能总量 稳中有升,对整体节能的 贡献率呈逐年下降趋势; 各年度环比结构节能总量 及其对整体节能的贡献率

均呈快速上升势头。

 Overall, the energy saved by structural adjustment and application of technology is 26.4% and 73.6% respectively, of the total energy saved in the first half of 2009. The year on year relative amount of technology driven energy savings increased slightly and steadily and its contribution to total energy savings decreased annually. The relative amount of structural energy savings each year and the contribution rate of structural energy savings to total energy savings increased quickly year by year.

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"十一五"期间节能效果评价(3)

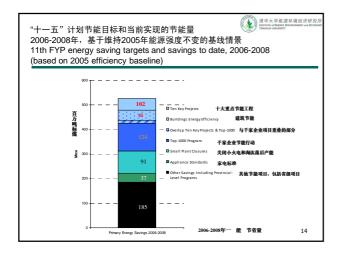
Assessment of energy saving work in the 11th FYP period (3)

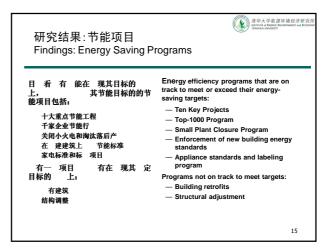
结构节能的成效主要体现在两 • The negative effect of structural 个方面:第一,2006-2008年 产业结构和行业结构变化对节 能的负面影响呈逐年下降趋 2009年上半年产业结构和 穷,2009年工十年,业结构和 行业结构调整对总节能量的贡献率则进一步转变为正1/3左右。第二,子行业结构调整、 右。第二,子行业结构调整、 产品结构调整、特别是产品价 值链升级和增加值率提高对结 构节能的快速上升起到了决定 性的作用。

adjustment among the three industries decreased from 2006 to 2008, and the contribution of structural energy savings turned positive, accounting for about 1/3 of the total energy savings in the first half of 2009, Sub-sector structural adjustment, adjustment of product structure, and especially the upgrading of value chains and the value added rate of products played key roles in the rapid increase in structural energy savings.

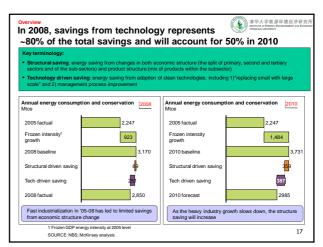
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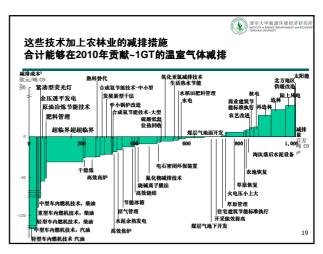


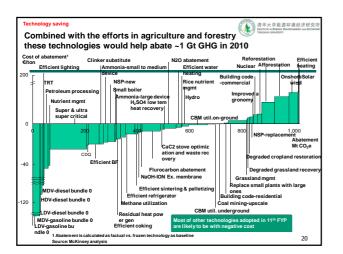












"十二五"应设明确节能目标(参考值18%)(1)

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Explicit energy savings target should be made for the 12th FYP (reference value 18%) (1)

- 《节约能源法》明确规定: "国务院和县级以上地方各级 人民政府应当将节能工作纳入 国民经济和社会发展规划、年 度计划"。
- ◆ 《节能中长期专项规划》提出: "到2010年每万元GDP(1990年不变价)能耗由2002年的 2.68te下降到2.25te.... 2020年每万元GDP能耗下降到1.54 te" 这意味着2020年单位GDP能耗要比2010年下降约1/3 (31.6%)。
- The Energy Conservation Law stipulates that "the State Council and local governments above the county level should incorporate energy saving work into the national economic and social development plan and annual plan."
- The Medium and Long-term Energy Saving Plan stipulates that energy consumption per 10,000 yuan GDP (1990 constant price) in 2020 should be decreased to 1.54tce, which means that energy consumption per 10,000 yuan GDP (1990 constant price) in 2020 should be lowered by about 1/3 based on 2010 level.

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"十二五"应设明确节能目标(参考值18%)(2)



Explicit energy savings target should be made for the 12th FYP (reference value 18%) (2)

能效状况(黑)和目标(红) Current situation (Black) and Target (Red)	2002年 Year	2005年 Year	2010年 Year	2015年 Year	2020年 Year
《节能中长期专項规划》目标 (tce/万元,1990年不变价) Target in Medium-tern and Long-term energy-saving special plan (tce/10k yuan, 1990 constant price)	2.68		2.25		1.54
《节能中长期专項規划》目标 (tce/万元,2005年不变价) Target in Medium-term and Long-term energy-saving special plan (tce/10k yuan, 2005 constant price)	1.157		0.9709		0.6646 (31.6%)
《十一五规划》降低目标 (tce/万元、2005年不变价) Target in 11 th FYP (tce/10k yuan, 2005 constant price)		1.226	0.9808 (20%)		(32.2%
《十二五规划》降低目标 (tce/万元、2005年不变价) Target in 12 th FYP (tce/10k yuan, 2005 constant price)				?	22

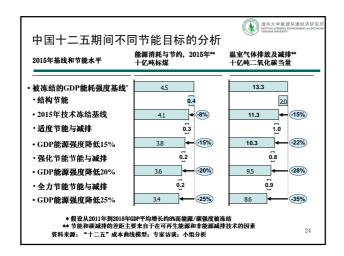
"十二五"应设明确节能目标(参考值18%)(3)

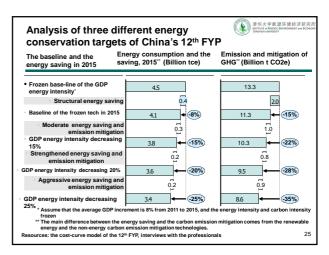
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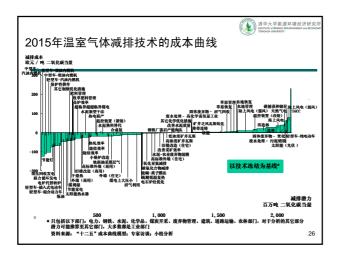
Explicit energy savings target should be made for the 12th FYP (reference value 18%) (3)

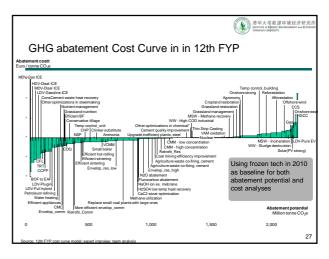
- ◆ 如果"十一五"能源强度按 计划降低20%,则基本完成 《节能中长期专项规划》的 预期目标。即便如此,2020 年的能源强度也要在2010年 下降20%的基础上,再下降 32.2%。为此,"十二 五"、"十三五"期间能源 强度需要各自下降约18%。
- ◈ 因此,"十二五"期间节能目。 标的参考值应该是18%左右。
- In order to achieve the goals of China's mid- and long-term energy conservation plan, even if the 20% target in 11th FYP could be achieved, it would still require an energy intensity reduction of 32.2% by 2020 based on 2010 baseline. GDP energy intensity in the 12th and 13th FYPs need to drop off about 18% each.
 - Therefore, the reference target we recommend for the 12th FYP is 18%.

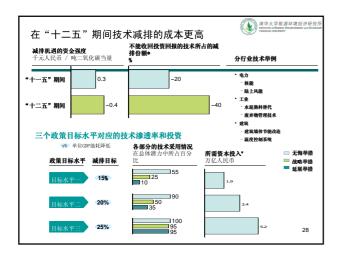
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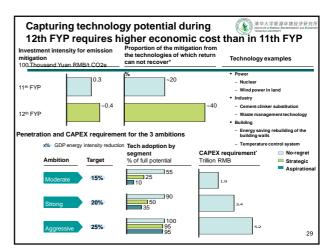














对"十二五"期间节能政策的建议(1) Energy Saving Policy Proposals for the 12th FYP (1)

- 1. 继续设定量化的约束性
- 2. 更加倚重结构节能,积 极转变发展方式,将产 业价值链升级和增加值 率提高作为结构调整的 基本方向,出台更为有 力的促进服务业和高技 术制造业快速发展的政 策措施。
- 1. Continue to make explicit mandatory energy savings goals of $18\% \hbox{--} 20\%$ decrease in unit GDP energy consumption.
- 2. Put additional effort into structural energy savings, change the development path, and make upgrading of value chains and value added rates of products the major emphasis of structural adjustment. Implement more powerful policies and measures to promote the development of the service industry and the high-tech industry.

清华大学能源环境经济研究所 ISTITUTE AN INSTITUTE OF THE PROPERTY AND ECONOM 对"十二五"期间节能政策的建议(2) Energy Saving Policy Proposals for the 12th FYP (2)

- 3. 完善并严格执行高耗能产 业总量限制政策,对新增 and strictly execute high energy consumption industry cap 产能要提高能耗标准,对 现有产能要深化能效对标 和技术改造, 对落后产能 要坚决淘汰。
- 4. 对行之有效的鼓励节能技 术应用和推广的政策法规 继续保持,加强节能技术 和节能管理体系信息的交 流推广。
- 对新增产能应当严格采取 等量淘汰落后产能的方式。
- energy- consumption industry capacity restriction policies. Raise energy consumption standards for the new capacity, strengthen energy efficiency benchmarking and technology innovation for the current capacity, and be vigilant in closing inefficient capacity.
- 4. Keep effective energy efficiency policies that promote energy efficient technologies and enhance the capacity for dissemination of the technologies and energy management information.
- 5. Take out an equal amount of inefficient capacity when new capacity is built.



谢谢! Thank you!