



# 2006 Activities Update

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<https://engineering.purdue.edu/IE/Research/PEMRG/CCTR/>

**CCTR Advisory Panel Meeting**

**Terre Haute**

**June 1st, 2006**

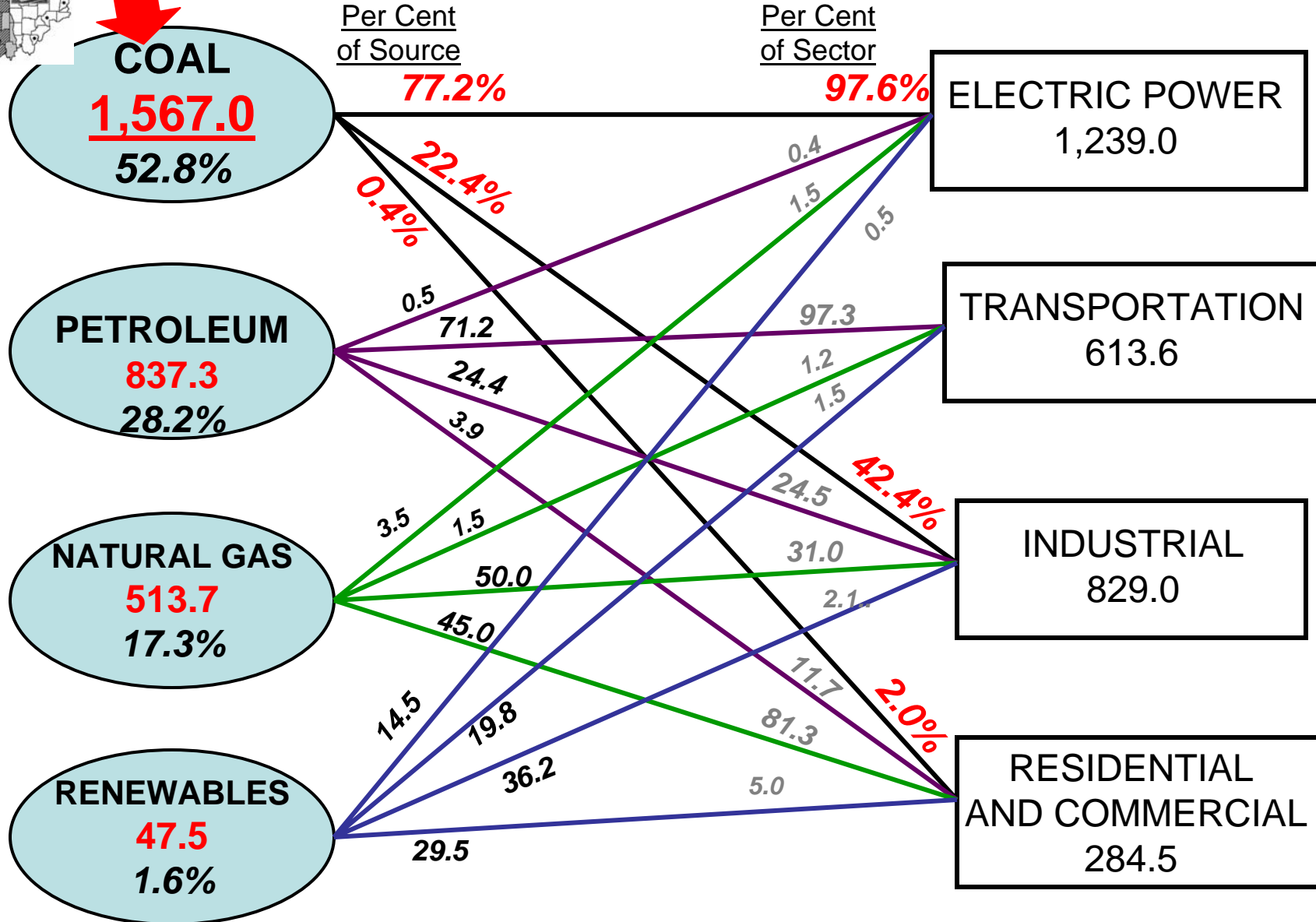
*Center for Coal Technology Research*

*Located in The Energy Center at Discovery Park*

*PURDUE UNIVERSITY*



# Indiana Primary Energy Consumption by Source and Sector, 2001 (Trillion Btu)





# 2006 CCTR Panel Dates

**Thursday June 1<sup>st</sup>**

**Terre Haute**

**Thursday, August 30<sup>th</sup>, (~~August 29<sup>th</sup>~~)**

**West Lafayette, (~~Indianapolis~~)**

Lugar Energy Summit, West Lafayette, August 29<sup>th</sup>

**Tuesday, November 28**

**Purdue Calumet or Purdue North Central**



# Agenda

9:00 <u>am</u>	Welcome, Agenda, Project Update, Reviews	Marty Irwin
9:15 am	“The Case for IGCC” Guest Speaker: Duke Energy Indiana, President	Kay <u>Pashos</u>
9:45 am	CCTR Coal Maps 1, 2 & 3	Maria <u>Mastalerz</u>
10:00 am	“Transportation Fuels from Coal”	F.T. Sparrow
10:15 <u>am</u>	“Policy Incentives to Stimulate Investment in Conversion of Coal to Liquid Fuels”	Wally Tyner
10:30 <u>am</u>	“Production Issues & Fischer-Tropsch (F-T) Commercialization”	<u>Fabio Ribeiro /</u> <u>Hilkka Kenttamaa</u>
10:45 am	“Usage Issues & F-T Commercialization”	Bob <u>Lucht</u> /Bill Anderson
11:00 am	“Environmental Issues & F-T Commercialization”	Linda Lee
11:15 am	“Coal Cost Reduction Using Low-Rank Coals”	<u>Hardarshan Valia</u>
11:30 am	Panel discussion ( <i>Provision of box lunches</i> )	
12:15 pm	Leave ISU for Tour at the Wabash Power Plant ( <i>10 people maximum. use personal vehicles – no transport provided</i> )	
12:30 pm	Arrive at Wabash Power Plant	Tom Lynch
2:00 pm	Departure from Wabash Power Plant	



# Today's Objectives

- Special introduction and consideration of the major issue of Coal-To-Liquids, presentations from Purdue Coal Fuel Alliance groups
- Update on current project funding
- IGCC & coking coal in Indiana, presentations from Duke Energy & Coal Science Inc.
- Start to employ the CCTR Technical Review Committee



# Currently Funded Projects

## Follow-Ons

- **Indiana Coal Characteristics for IGCC**  
IGS, \$100,000, June 1, 2006 ~ May 31, 2008
- **Clean Coal Technologies**  
PEMRG, \$150,000, April 1, 2006 ~ March 31, 2007
- **Coal for Coking**  
EERC, \$100,000, April 1, 2006 ~ March 31, 2007



# Currently Funded Projects

## Scoping Studies

- **Coal Transportation**

Purdue North Central, \$23,275 (+ \$25,000 from INDOT)

April 1, 2007 ~ December 31, 2007

- **Coal To Liquids**

CTL, \$150,000 April 1, 2007 ~ March 31, 2007

4 Purdue groups (i) F-T Production (ii) F-T Engine Testing  
(iii) F-T Economics (iv) Environment Issues

- **Indiana Coal Fines**

\$111,900, August 1, 2007 ~ April 31, 2008

R.E. Mourdock & Assoc, IGS, PWI



# Summary of 2006 Projects

<i>State Reference #</i>	<i>Topic</i>	<i>Institution &amp; Location</i>	<i>Total Budget</i>	<i>Contact Person &amp; Contract Dates</i>
<b><i>Purdue System</i></b>				
<b>6-CTR001</b>	Energy Outreach Program	CCTR, Purdue West Lafayette	179,417	M.W. Irwin April, 2006 ~ March 31, 2007
<b>6-CTR002</b>	Coal To Liquids	Coal Transformation Laboratory, Purdue West Lafayette	\$150,000	F.T. Sparrow April 1, 2006 ~ March 31, 2007
<b>6-CTR003</b>	Clean Coal Technologies	PEMRG, Purdue, West Lafayette	\$150,000	Ronald Rardin April 1, 2006 ~ March 31, 2007
<b>6-CTR004</b>	Indiana Coking Coals	Purdue Calumet Hammond	\$100,000	Robert Kramer April 1, 2006 ~ March 31, 2007
<b>6-CTR005</b>	Coal Transportation	Purdue North Central Westville	\$ 23,275	Tom Brady April 1, 2006 ~ December 31, 2006
<b><i>Non-Purdue System</i></b>				
	Coal Characteristics	IGS, Indiana Geological Survey, Bloomington	\$100,000	Maria Mastalerz June 1, 2006 ~ May 31, 2008
	Indiana Coal Fines	R.E. Mourdock & Associates Inglefield	\$111,980	Richard Mourdock August 1, 2006 ~ April 30, 2007



# Technical Review Committee

## **Why Needed?**

Special technical expertise is required to assess certain proposals and reports

## **How Will It Operate?**

Mainly through personal communication with CCTR staff, Advisory Panel members, and ad hoc meetings as needed

## **Who Will Be Members?**

Experts will be identified from within and outside the state – services on a voluntary basis – travel expenses will be reimbursed



All CCTR reports and power-point presentations  
are available at the CCTR website:

<https://engineering.purdue.edu/IE/Research/PEMRG/CCTR/>