ConocoPhillips

Wabash River
Coal Gasification Repowering Project

June 12, 2007

.

Wabash River

Tomorrow…Begins Today

One of the

Cleanest Coal Fired Power Plants

in the World

1.7 million tons of bituminous coal

2.0 + million tons of petcoke

2500 TPD bituminous coal feed

Operational since 1995 at Duke Energy's Wabash River Plant

SG Solutions LLC now owns Syngas Plant, ConocoPhillips provides professional services on site

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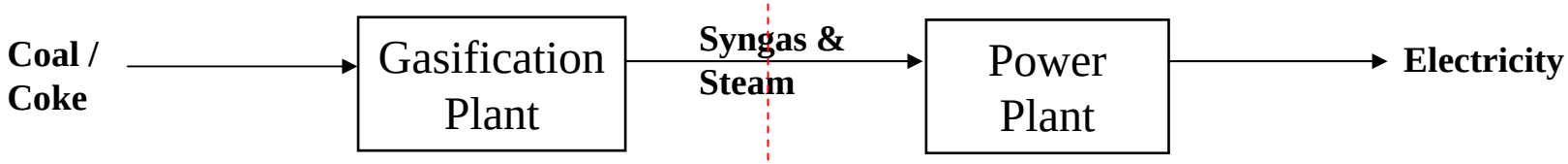
Wabash River Coal Gasification Repowering Project Ownership Split



sgSolutions

Joint Venture of

Wabash Valley Power
A Touchstone Energy® Cooperative

and

Global Energy

Duke Energy

Acquired

Cinergy / PSI Energy

in 2006

Wabash River Single Train Gasification System

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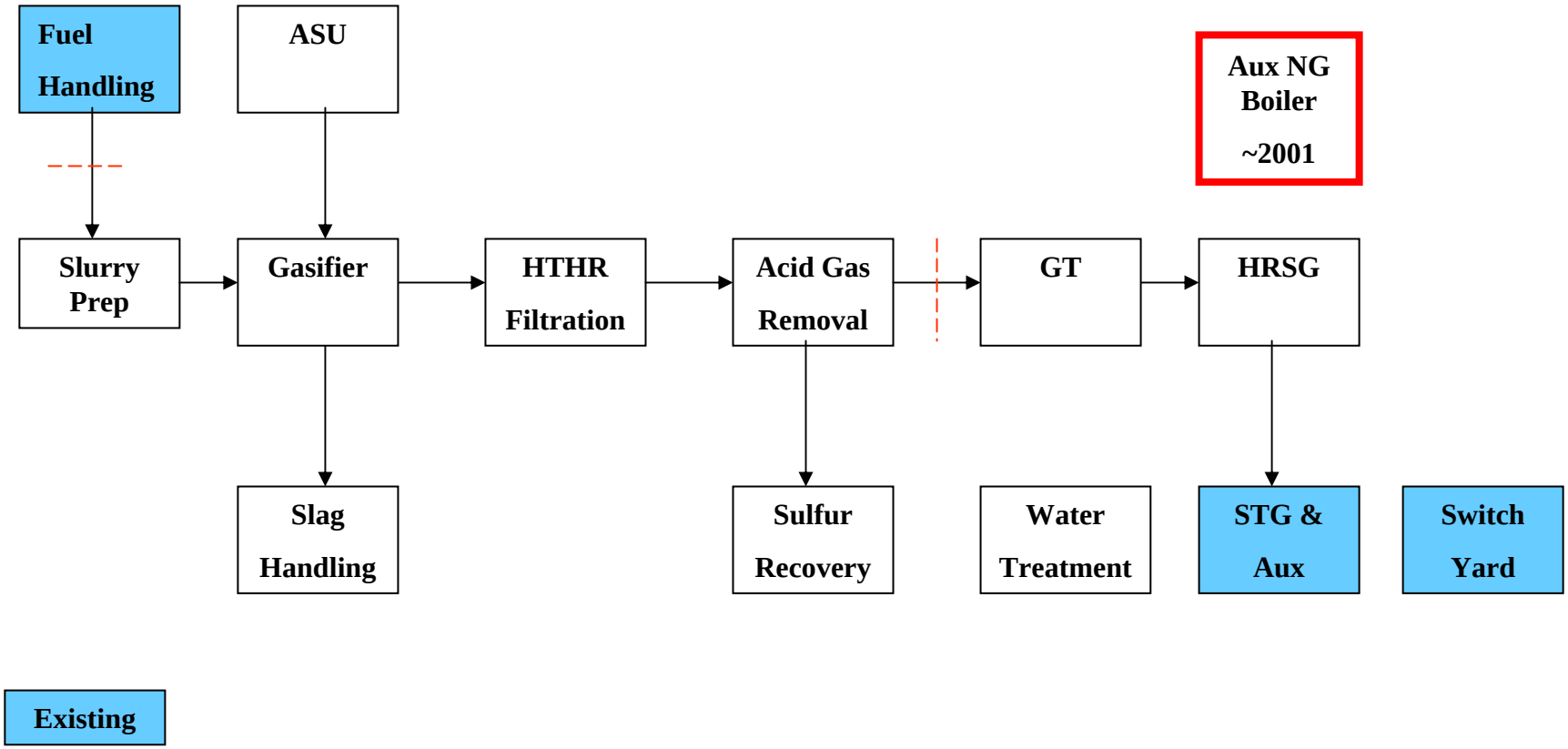

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Wabash Timeline

Selected in DOE CCT Round IV in 1991

Permits and Certificate of Need in May 1993

Construction Started 3Q 1993

Operational in 1995

Bituminous Coal	1995 – Aug 2000
Petroleum Coke	2000 - current

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Wabash Equipment

Power Block

- GE 7FA Combustion Turbine (192 MW)
- Westinghouse Steam Turbine (100 MW, original 1953 installation)

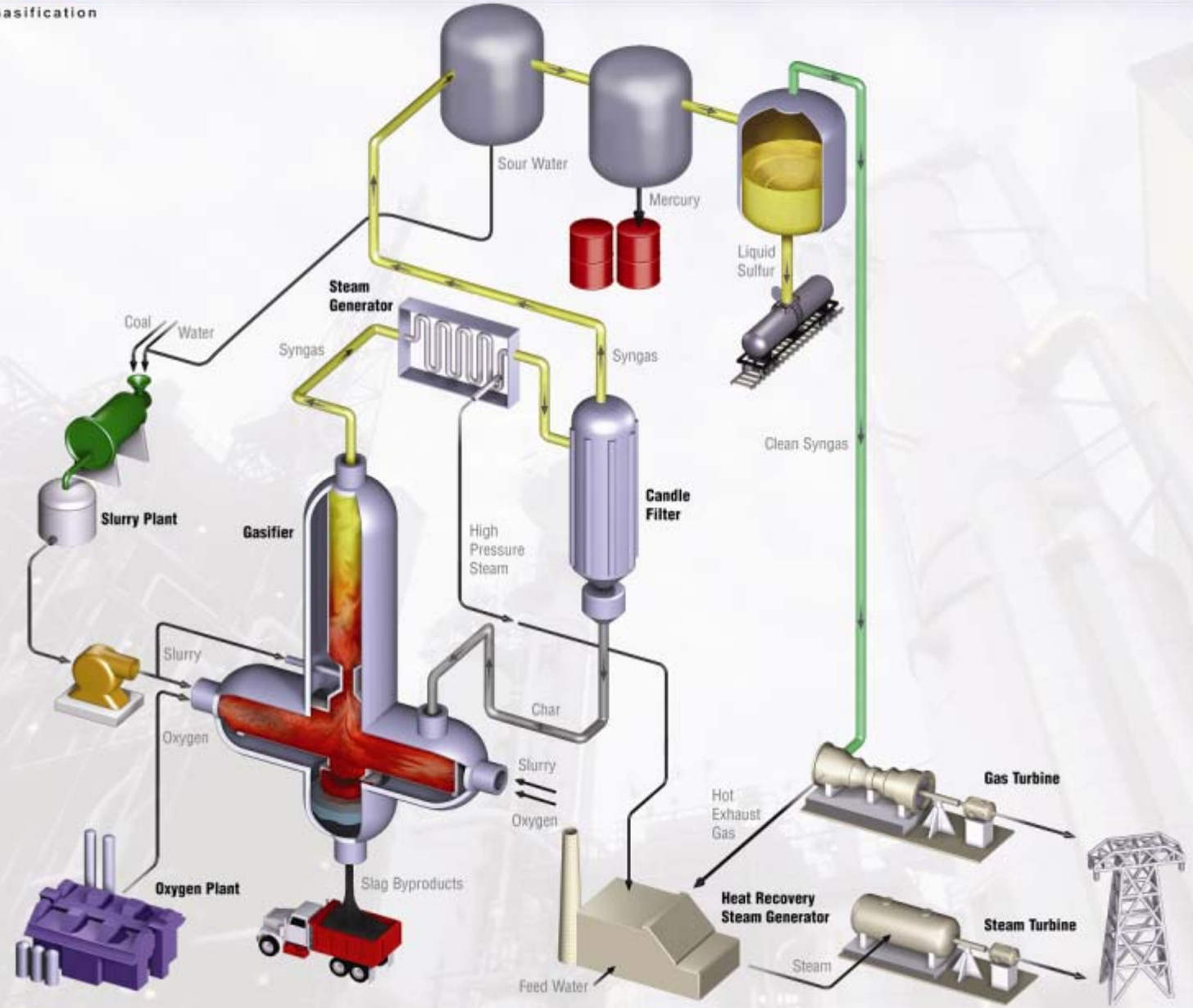
Gasification

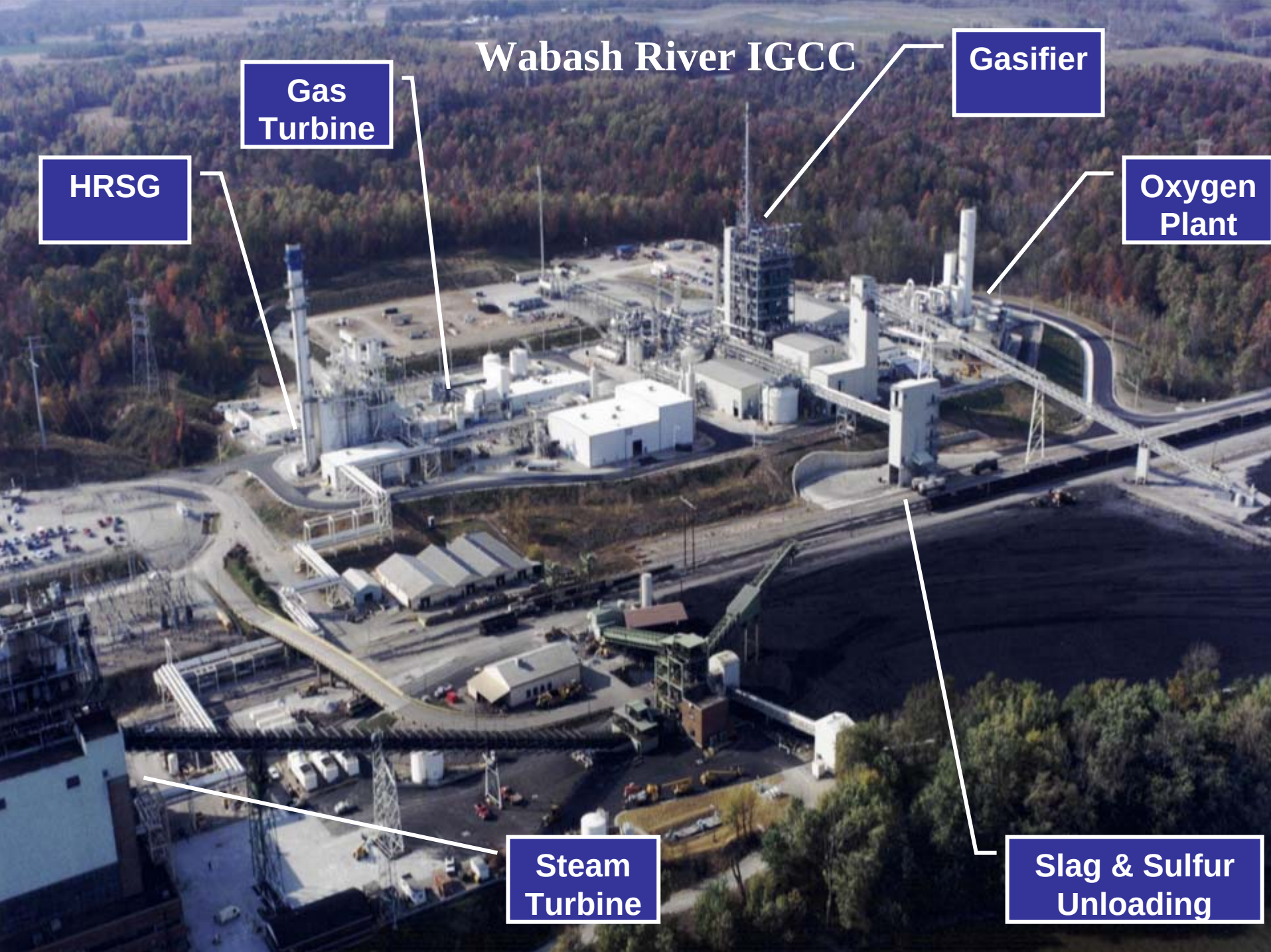
- Air Liquide 2000 TPD Oxygen Plant
- ConocoPhillips E-Gas Gasification System
- Amine type Acid Gas Removal (AGR)
- Three Stage Claus Sulfur Recovery

E-Gas
Technology for Gasification

A Look Inside the Process

ConocoPhillips




Wabash River IGCC
Gas Turbine
Gasifier
HRSG
Oxygen Plant
Steam Turbine
Slag & Sulfur Unloading

E-Gas™ Technology Gasifier

Tomorrow…Begins Today

Two stage for carbon conversion and heat recovery efficiency

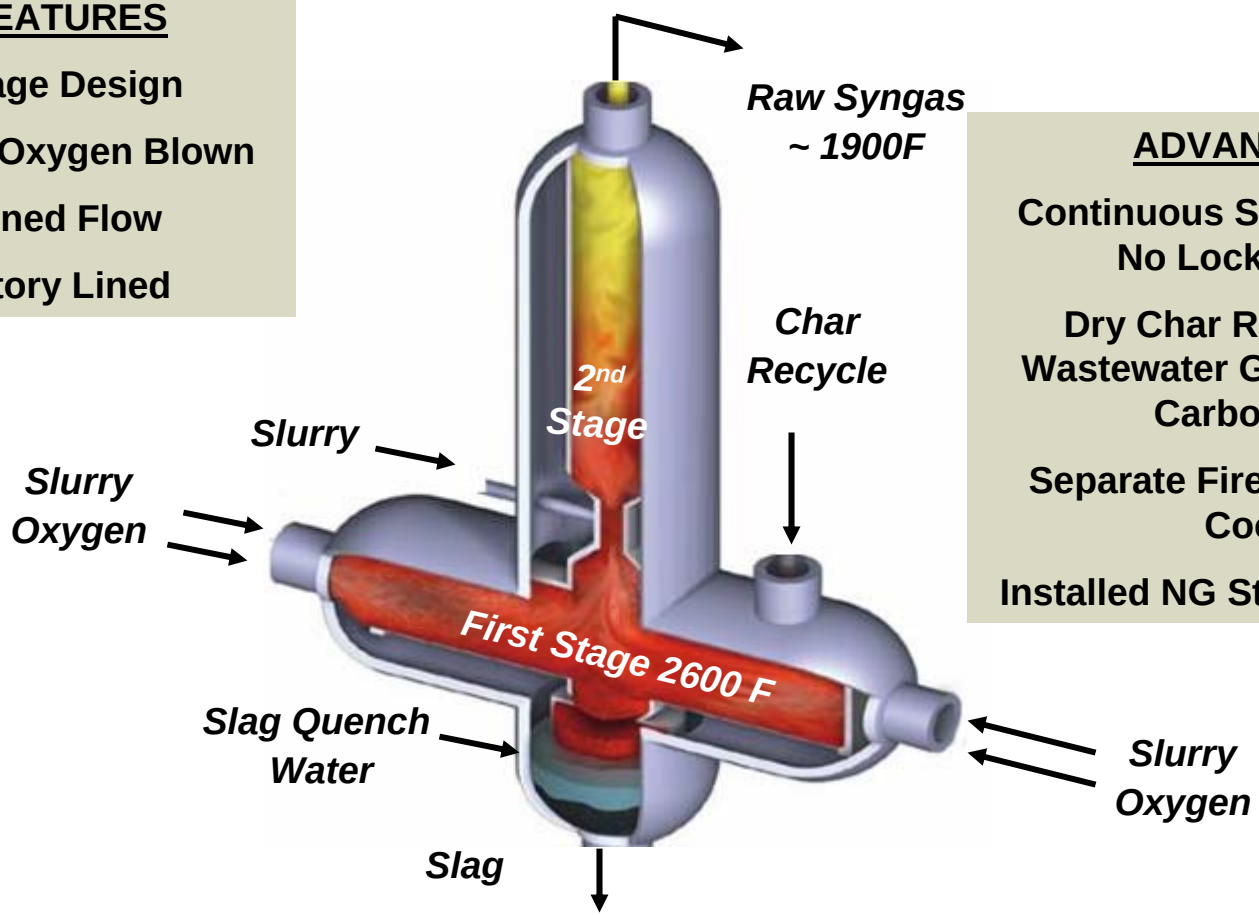
KEY FEATURES

Two Stage Design

Slurry Fed, Oxygen Blown

Entrained Flow

Refractory Lined



ADVANTAGES

Continuous Slag Removal – No Lockhoppers

Dry Char Recycle – No Wastewater Generation, No Carbon Lost

Separate Fire-tube Syngas Cooler

Installed NG Start-Up Burners

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Wabash River Energy Recognition

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Power Plant of the Year 1996 (Power Magazine)

Power Plant Hall of Fame 2000 (Power Magazine)

1996 Certificate of Recognition for Energy Efficiency & Renewable Energy from the US DOE

1997 Certificate of Environmental Achievement from the National Awards Council for Environmental Sustainability

1998 Governor's Award for Excellence in Recycling

Recognition in 2001 National Energy Policy

Cover of DOE's Study on Environmental Aspects of Gasification

Cleanest Coal/Coke Fired Power Plant in the World

U.S. Department of Energy • Office of Fossil Energy
National Energy Technology Laboratory

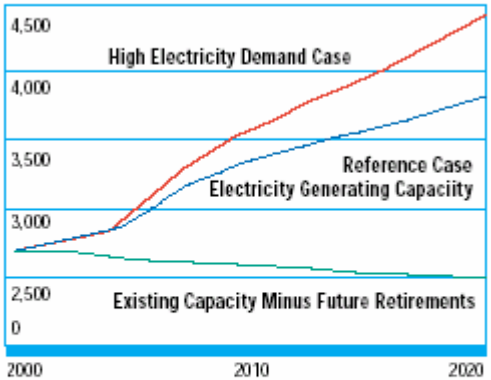
Major Environmental Aspects of Gasification-Based Power Generation Technologies

Final Report

December 2002

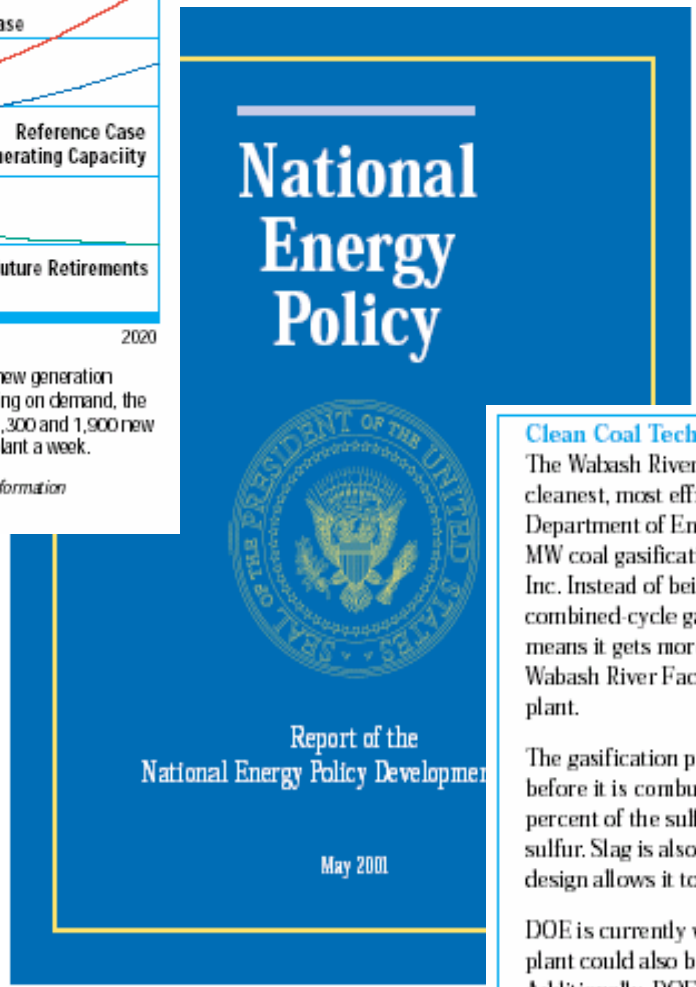
NETL

Figure 1-2
The U.S. Needs More Power Plants



The nation is going to require significant new generation capacity in the next two decades. Depending on demand, the United States will need to build between 1,300 and 1,900 new power plants—or about one new power plant a week.

Source: U.S. Department of Energy, Energy Information Administration.



Clean Coal Technologies Up Close

The Wabash River Coal Gasification Project in Terre Haute, Indiana, is one of the cleanest, most efficient coal-burning facilities in the country. Partly funded by the Department of Energy (DOE) as part of its Clean Coal Technology Program, the 262-MW coal gasification facility is owned and operated by PSI Energy and Global Energy, Inc. Instead of being directly burned, the coal is gasified and then combusted in a combined-cycle gas turbine. This allows the coal to burn more efficiently—which means it gets more energy than a traditional plant out of the same amount of coal. The Wabash River Facility is over 20 percent more efficient than a typical coal-fired power plant.

The gasification process also allows many of the impurities in the coal to be removed before it is combusted to generate electricity. At the Wabash River project, over 99 percent of the sulfur is removed from the coal and marketed to industrial users of sulfur. Slag is also removed and is marketed to the construction industry. The plant's design allows it to burn other fuels, such as petroleum coke.

DOE is currently working with Global Energy and other industry partners to see if the plant could also be used to co-produce chemical feedstocks and transportation fuels. Additionally, DOE and its partners are studying lessons learned from the project to design a less expensive, more efficient coal gasification facility that would be ready for commercial deployment by 2005.

Wabash Emissions Comparison

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Emissions, lb/MWh	SO_2	NO_X	CO	PM-10	VOC
Unit 1 before Repowering	38.2	9.3	0.64	0.85	0.03
IGCC (1999 Annual Avg.)	1.075	0.75	0.56	0.09	0.09
EMISSIONS REDUCTION, TPY	5505	1179	(83)	101	(25)

Comparing 100 MW PC unit running 35% availability and

262 MW IGCC running 75% availability

(5.6 X more megawatt hours produced)

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Pollutant Removal Advantages

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Mercury Removal

- Approximately 50% removal at Wabash
- New Plants will have 90-95% removal utilizing carbon beds

Estimated Emissions of Coal Based Power Plants

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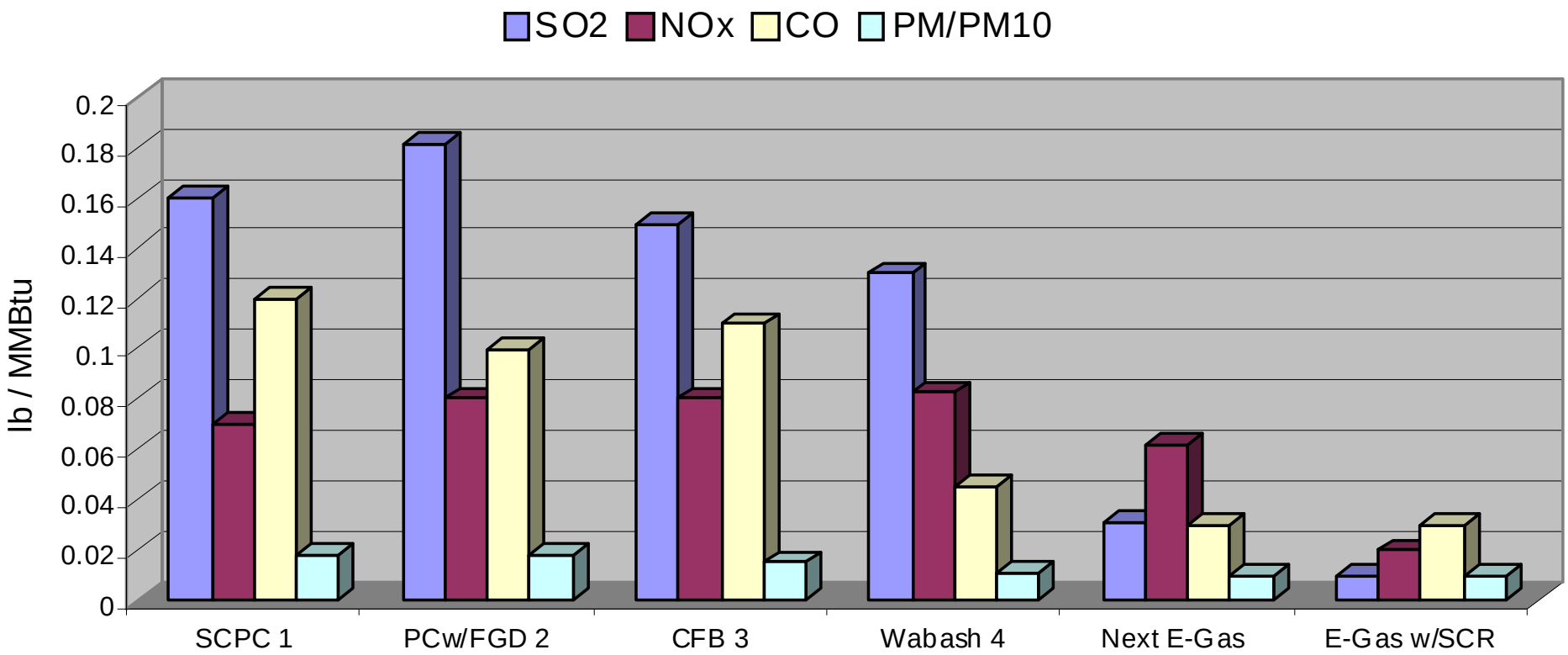

1) Wisconsin Electric Power SCPC information from April 2003 Draft Environmental Impact Statement, Elm Road Generating Station, Volume 1, Public Service Commission of Wisconsin & Department of Natural Resources, Table 7-11, p. 155 (Pittsburgh No. 8 coal)

2) Evaluation of IGCC to Supplement BACT Analysis of Planned Prairie State Generating Station, May 11, 2003. Prepared by Donald J. Wilhelm SFA Pacific, Inc. for Prairie State Generating Company, LLC.

3) Supplemental Information for PSD Permit Application, March 25, 2003, Prepared by Earth Tech, Inc. for Indeck - Elwood, LLC.

4) Wabash River Repowering Project, 1999 average reported to IDNR

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Estimated Total Annual Air Emissions - Coal Power Plants

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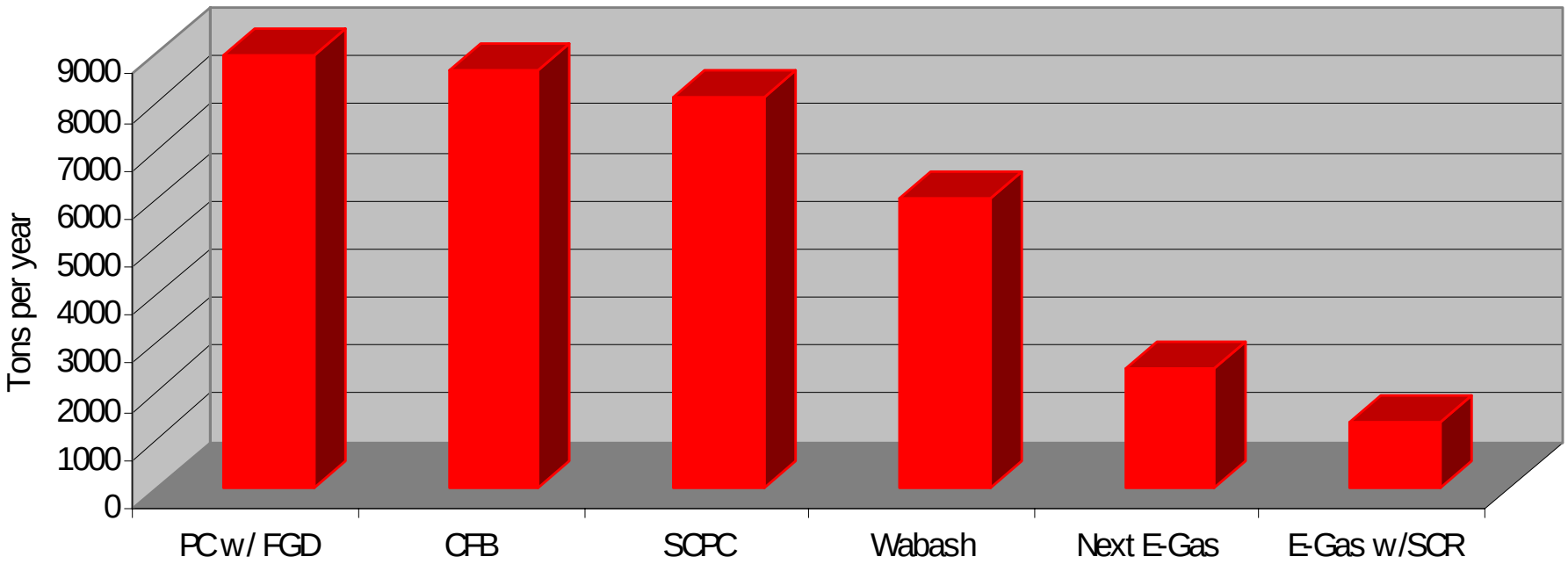

From references cited in previous slide.

All plants scaled to 630 MW at 90% annual capacity factor.

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Solid By-products – not Wastes

Tomorrow…Begins Today

Sulfur - 99.99% pure

- 100,000+ tons sold at Wabash
- 400,000,000+ equivalent lbs of SO_2

Slag - Black, glassy sand like material

- Inert, passes TCLP & UTS
- Asphalt
- Construction backfill
- Landfill cover

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Water and Wastewater

Water

Steam Turbine Condenser cooled with River Water

IGCC Consumption is about 1100 gpm

- 200 GPM Steam Injection
- 400 GPM ASU Cooling Tower Make-Up

Wastewater

Gasification Island process wastewater ~ 100 gpm

Retrofit with Zero Liquid Discharge system

Cooling Tower and HRSG Blowdown go to WW Pond

WABASH RIVER IGCC PLOT ~ 20 ACRES

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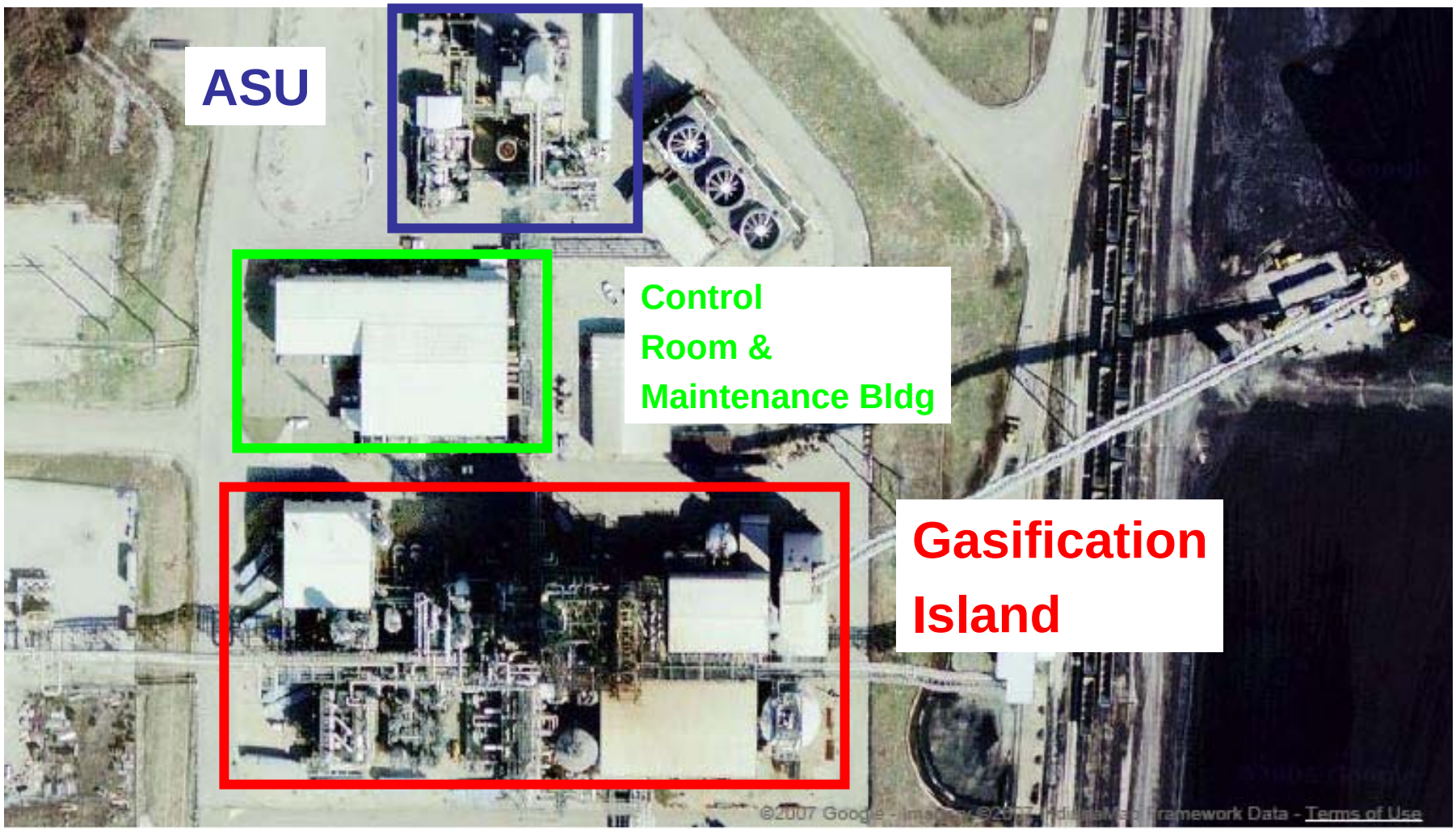
SG Solutions Syngas Facility

Tomorrow…Begins Today



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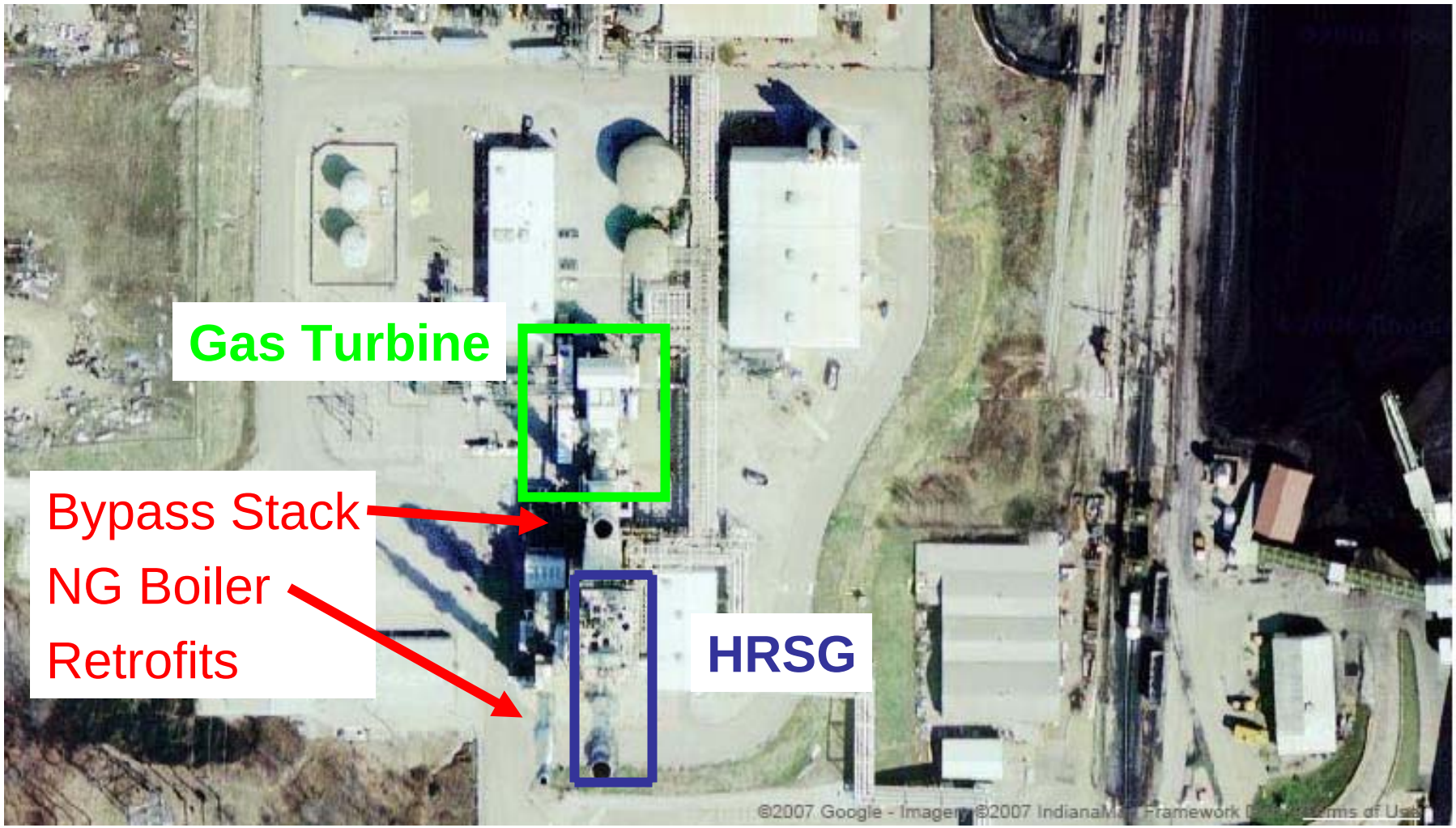
Power Block

Tomorrow…Begins Today



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Wabash 2007 Highlights

Tomorrow…Begins Today

Safety Milestone – The facility completed 21 consecutive months without a TRC incident.

85% Plant Availability in 2007 through June 8

- **Delayed start of Spring Scheduled Outage**

Fuel Milestone – Wabash has gasified >2 million tons petcoke (1.7 million tons of Illinois 6 previously)

Operations Record - 64 days of continuous operation

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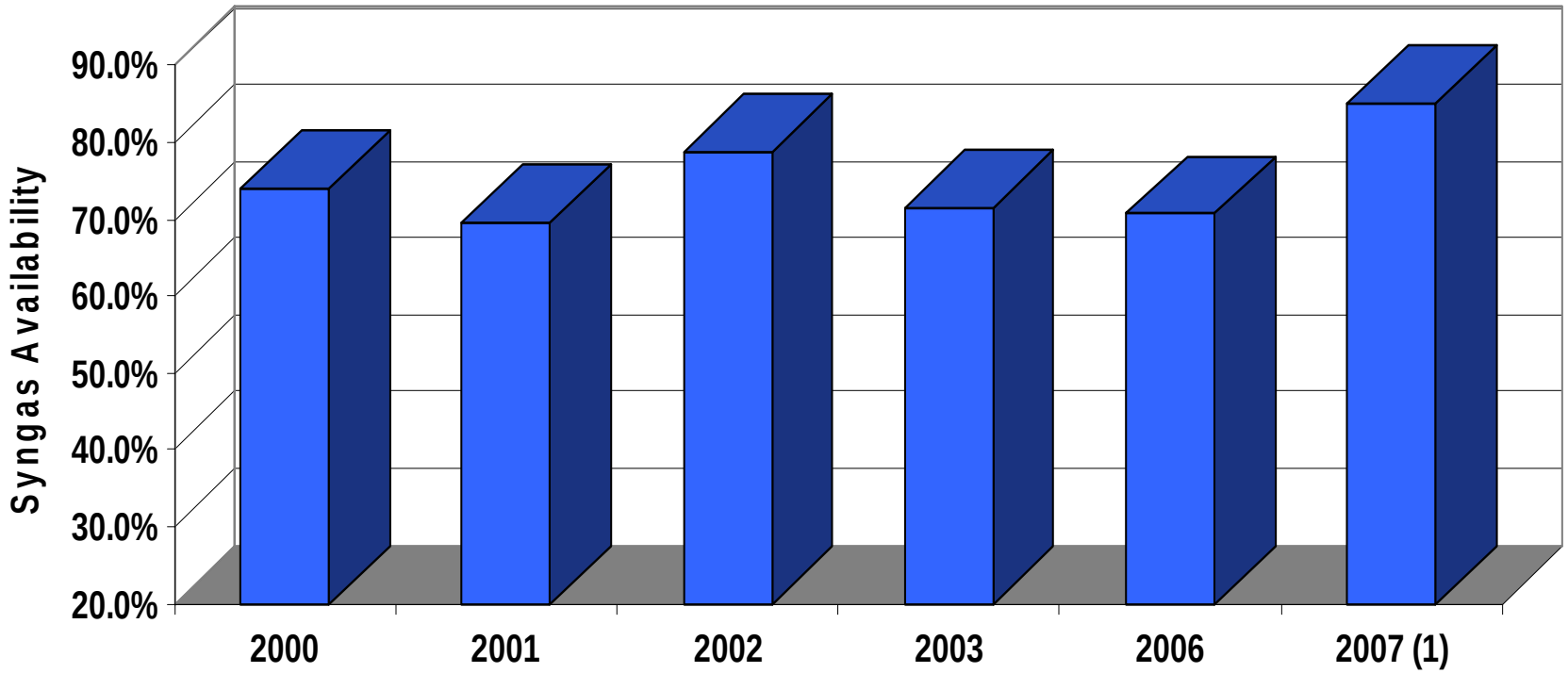
Maturity of E-Gas Technology at Wabash

Tomorrow…Begins Today



Availability = On Stream % + [Product not Required % * (1-(Forced Outage Rate/100%))]

(1) Through June 8, 2007

Source: SG Solutions, LLC

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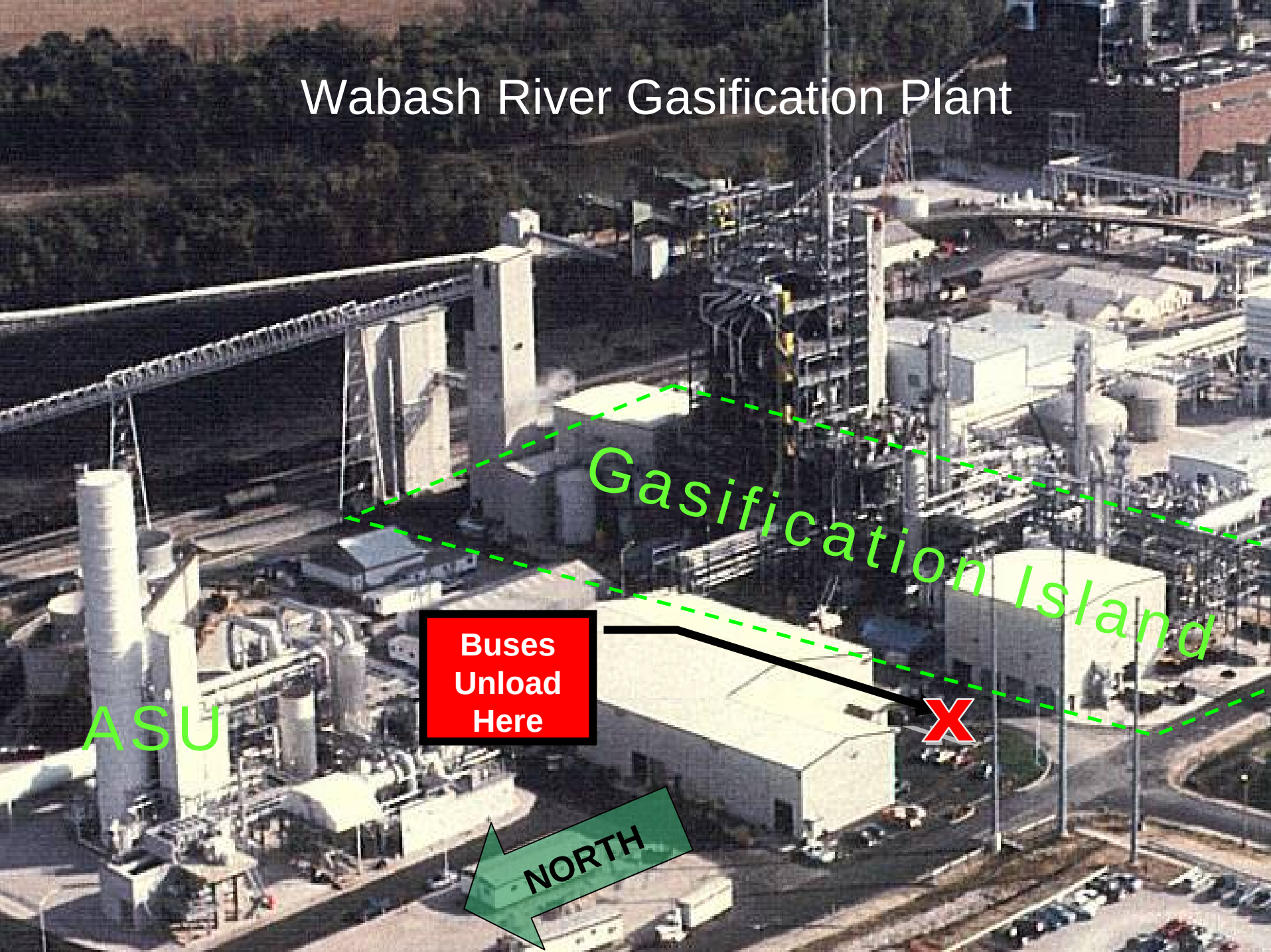
Tour Safety

The Plant is in a Major Scheduled Turnaround

- High Maintenance Activity Level
- Three to Five Times the Normal Personnel on Site

Potential Dangers

- Struck By (Overhead Lifts, Overhead Work, Many “Head Knockers”)
- Struck By (Additional Vehicles & Maintenance Equipment)
- Tripping / Falling Hazards (Hoses, Extension Cords, Pipe, etc.)
- Noise, Chemical and High-Pressure Water Hazards
- Pressurized Gas Cylinders
- Airborne Debris from Maintenance Activities


Wabash River Gasification Plant
Gasification Island
ASU
Buses Unload Here
X
NORTH

Plant Tour Safety Requirements

Hard Hats

Safety Glasses with Attached Side Shields

Hearing Protection in Noisy Areas

Stay Out of Restricted Areas (stay on the paving)

Accompanied by a Designated "Tour Guide"

- Phil Amick
- Cliff Keeler
- Tom Lynch
- Richard Payonk
- Newell Carter
- Jeff Stockton
- Gary Devore

In the Event of an Emergency

Tomorrow…Begins Today

Alarm Air Horn Will Sound

- "Alert" Air Horn – Continuous series of short blast – All emergencies – Listen for verbal instructions.
- "All Clear" Air Horn – Three long blasts – Emergency concluded – Listen for verbal instructions.
- Emergency Horns are tested every Tuesday (Today) at Noon

Announcement Will Be Made by Operations

Stay in or Proceed to Lobby or Large Conference Room

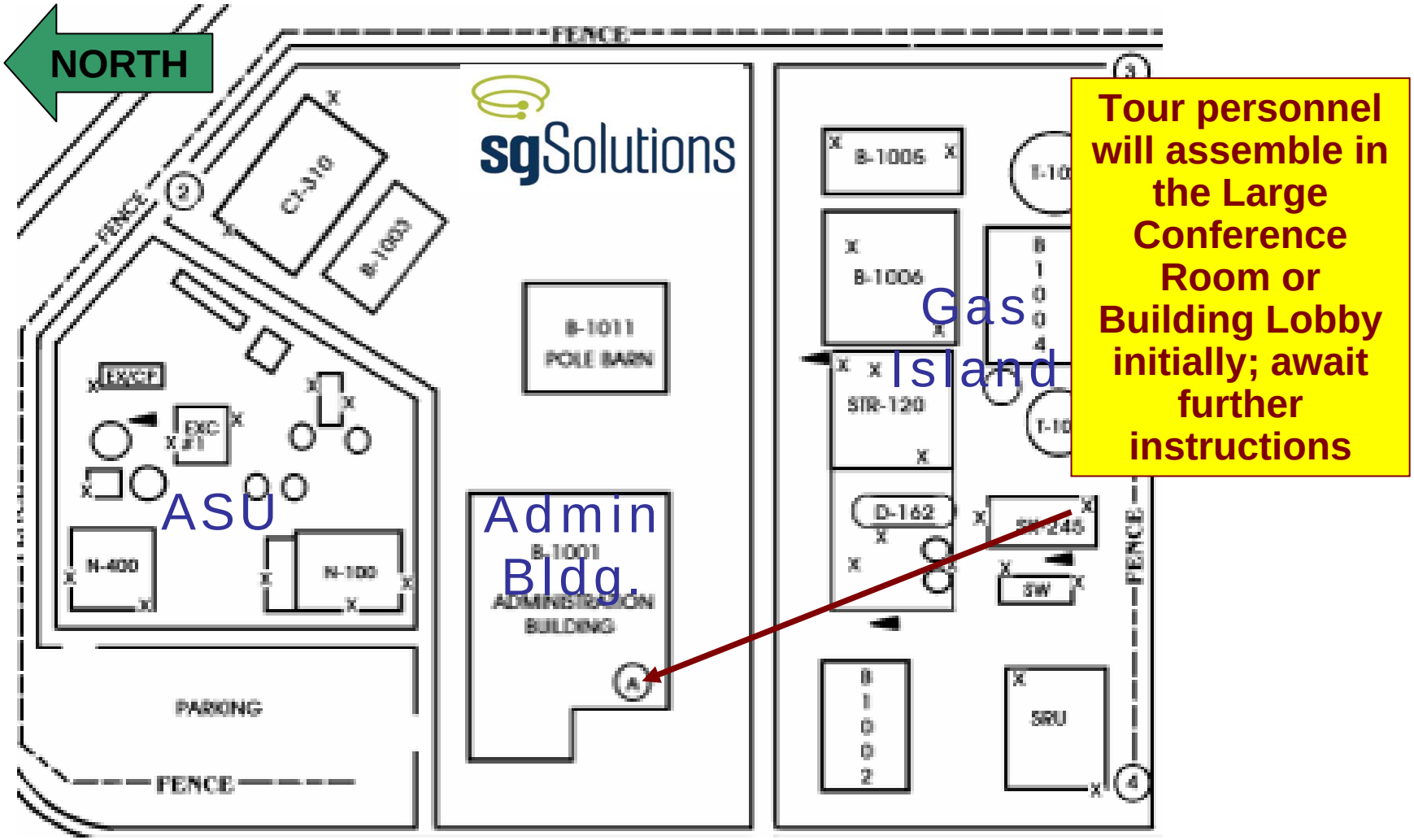
CoP Designate to Check in with Event Recorder

Await Further Instructions

Grab Basic Safety Gear if Evacuation is Announced

Our Emergency Assembly Area

Tomorrow…Begins Today



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SIMPLE RULES
No cameras
Stay with your tour guide
When we get to the plant site:
- Disembark from buses
- Divide into groups of 8-10 people
Enjoy your visit to Wabash River IGCC