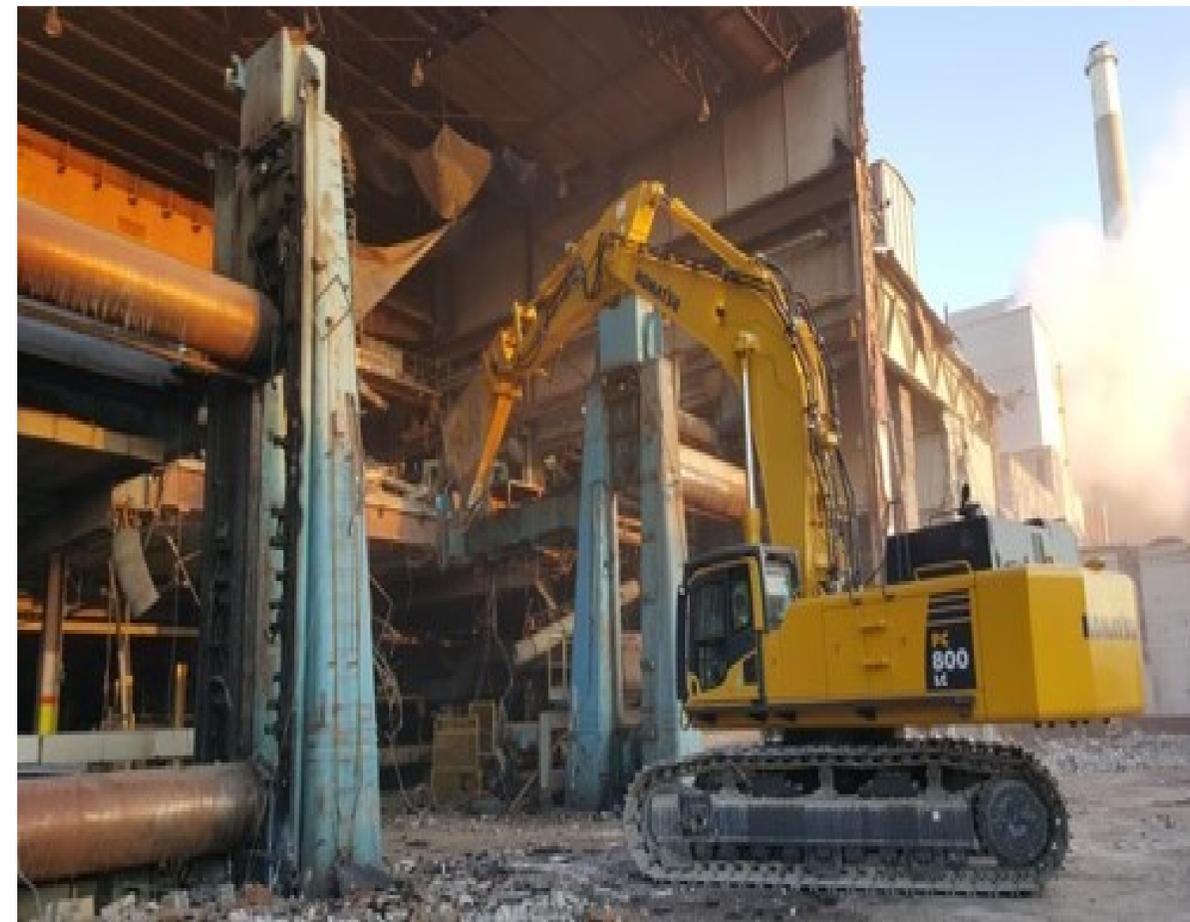


# COAL PLANT DECOMMISSION, DECONTAMINATION AND DEMOLITION



# PREPARED FOR: A&WMA

NOVEMBER 18, 2020



# INTRODUCTIONS

MEGA SYMPOSIUM: NAVIGATING THE EMERGING ENERGY  
(VIRTUAL) ENVIRONMENT



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VICE PRESIDENT



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BUSINESS DEVELOPMENT MANAGER  
BROWNFIELD REDEVELOPMENT GM



# TRUST THE PROCESS

THIS STRATEGY HAS PROVEN:

SAFE

ENVIRONMENTALLY  
FRIENDLY

EFFECTIVE

EFFICIENT

ECONOMICAL

STOP

THINK

ACT

# CORE SERVICES OVERVIEW

## FE GROUP DEMO

### DEMO & DECOMMISSIONING

- Universal Waste & Asbestos Management
- Equipment Dismantling
- Selective Structural Demolition
- Complete Structure Demolition
- Underground Piping & UST Removal
- Investment, Asset Recovery, Scrap Recycling – End Users
- Concrete Demolition & Crushing
- Complete Site Restoration
- Land Re-Purpose & Reutilization

## INDUSTRIAL SERVICES

### INDUSTRIAL SERVICES

- Site Development, Excavation & Grading
- Soil Remediation
- Soil Mixing & Stabilization
- Landfill Capping & New Construction
- CCR, Ash Management
- MGP Sites
- Industrial Cleaning

## CAMS SERVICES

### ENERGY ASSET MANAGEMENT & O&M

- Power Generation
- Thermal & Renewable
- Midstream
- E&P
- Infrastructure
- “Cradle to Grave Services”
- Due Diligence
- Pre-COD & Transition Services
- Asset Management
- O&M
- Financial Services
- Environmental Services
- Deconstruction & Remediation Oversight
- Brownfield Redevelopment

# US COAL RETIREMENTS

2-10 YEAR: SINCE 2005 THE US HAS REDUCED ITS CARBON EMISSIONS BY 2.4B METRIC TONS OF CO<sub>2</sub>

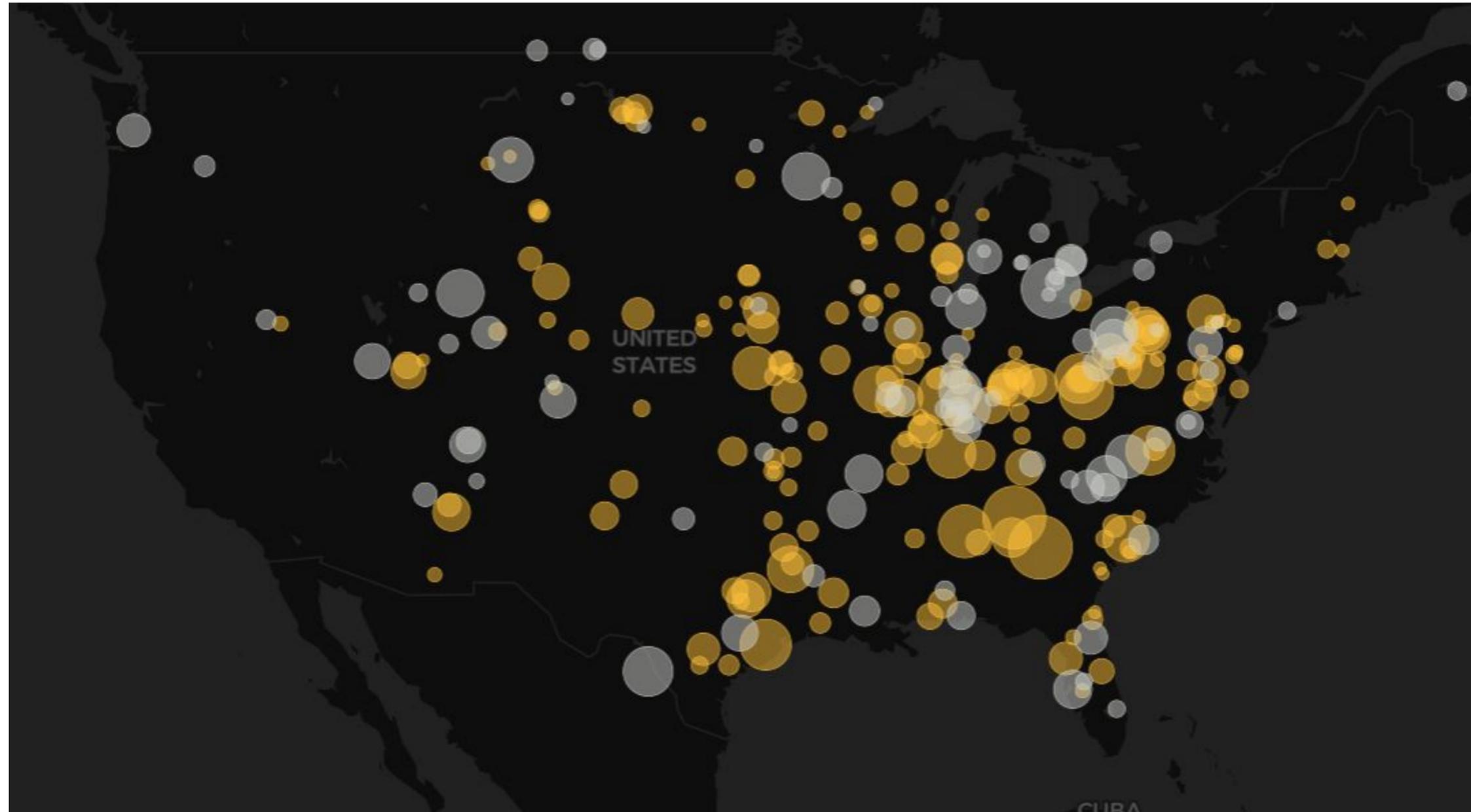


Image produced by Carbon Brief



Closed/closing in 2-5 years

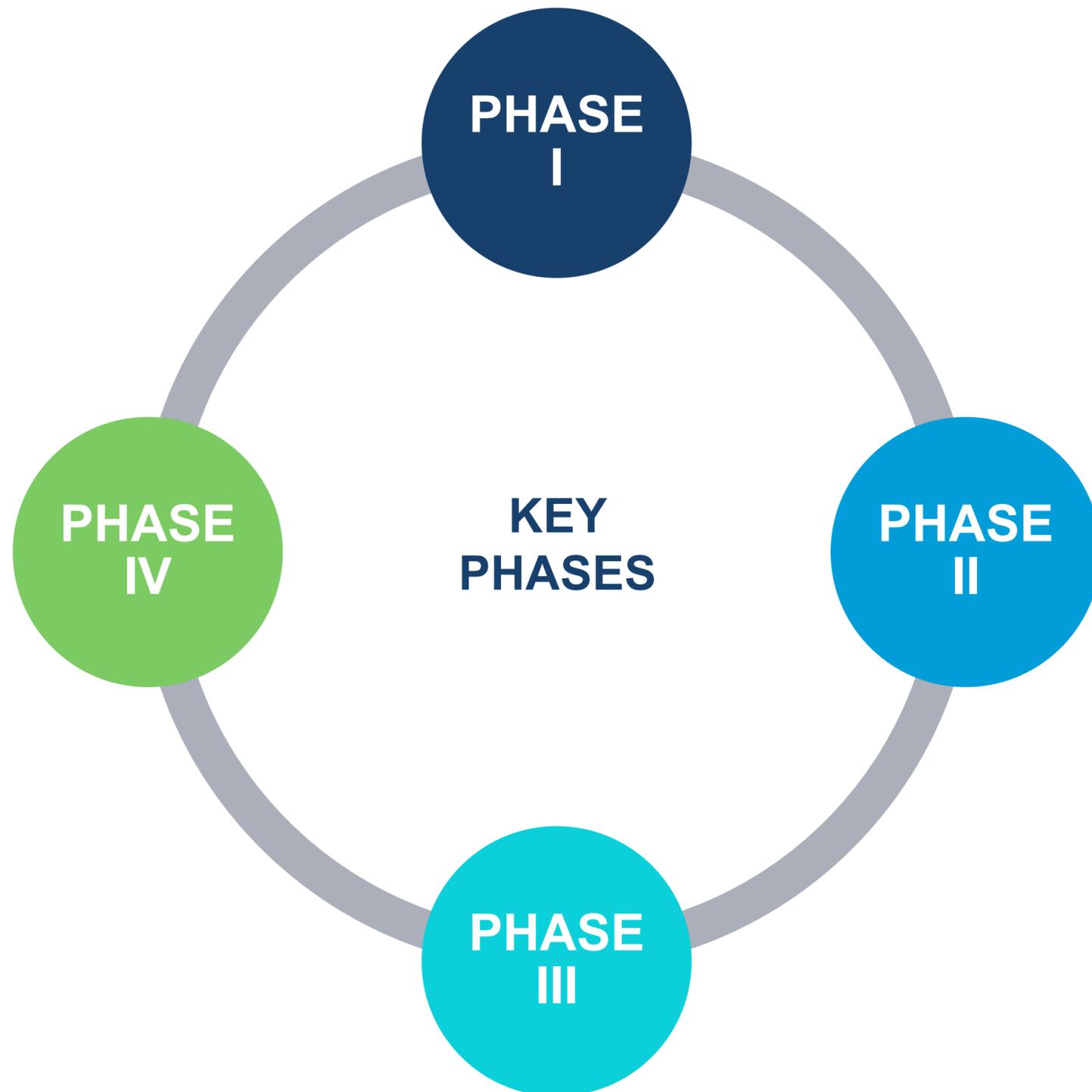


Operating w/ plan to close in 10 years

- Coal ash remediation, decommissioning & demo \$21B industry
- 8GW retired in 2019; 13.7GW in 2018
- Coal = 68% of power retirements in 2019
- 229GW remaining in the US
- 22% retired coal facilities have added 11,050 MW of solar
- Coal 23.3% power; Nat Gas 38.1
- Despite closures; capacity rose ~9GW from 2017-2018
- Stats provided by the Edison Electric Institute:  
<https://www.eei.org/resourcesandmedia/Pages/IndustryData.aspx>

# PROPER DECOMMISSIONING & DEMO PHASES

FOUR KEY PHASES REQUIRED



I. PRE-PLANNING (RISK ASSESSMENT)

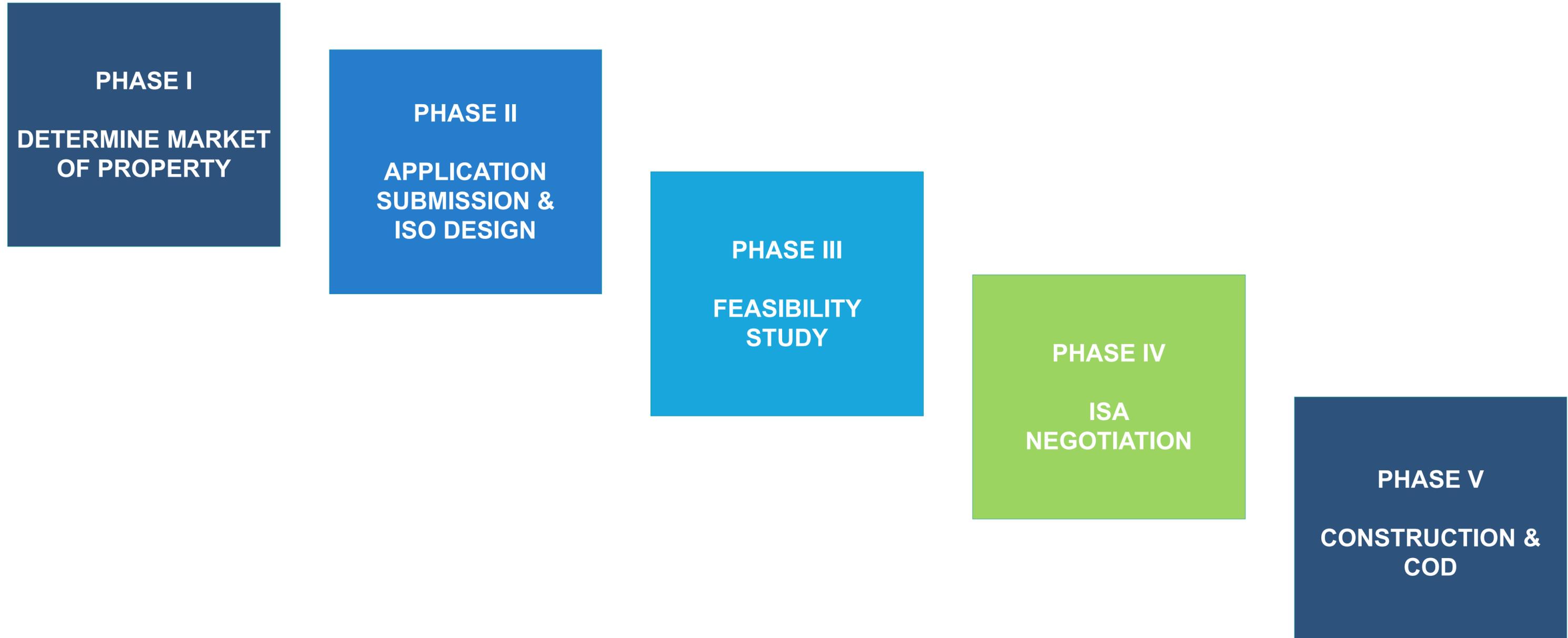
II. PROJECT DEVELOPMENT

III. PROJECT EXECUTION

IV. PROJECT CLOSEOUT

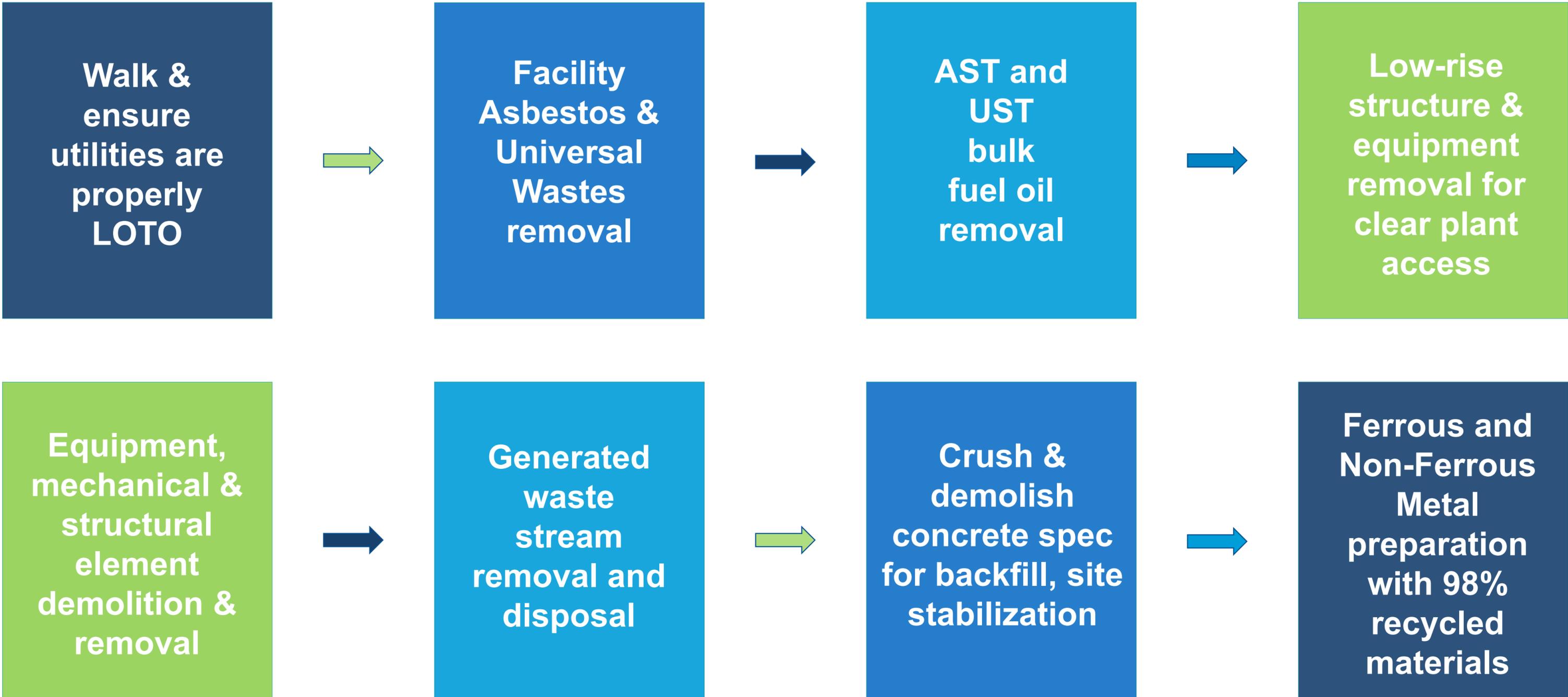
# REDEVELOPMENT PHASES

KEY PHASES REQUIRED BY BROWNFIELD REDEVELOPMENT



# KANSAS COAL PLANT

## POWER FACILITY DECOMMISSION & DEMOLITION



# NEVADA PEAKING STATION

9

252 MW Natural Gas Fired Turbine Units

Determine best property outcome

Demolish & remediate facility allowing for repower

Recycled Ferrous and Non-Ferrous and precious metals

Demolition planning critical to meeting schedule

Strategies evolved as changes in conditions arose in field

Closed land sale for renewable power development

Community happy with offset of carbon emissions



# PENNSYLVANIA COAL PLANT

POWER FACILITY DECOMMISSION & DEMOLITION

EXISTING TRANSFORMERS

LEASED LAND SECTION & PROPOSED REG D SITE



EXISTING 115 KV LINE UP TO 90 MW

PHASE 2 SOLAR EXPANSION ~ 10 MW

# QUESTIONS?

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