SIGN IN

CGS COMMUNITY OPEN HOUSE EXPO

WELCOME

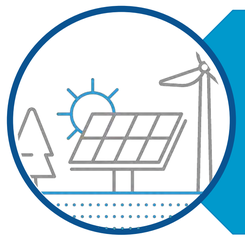
CGS COMMUNITY OPEN HOUSE EXPO

CGS OVERVIEW

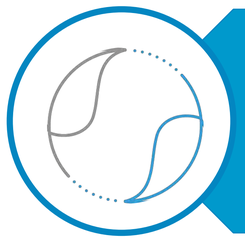
What will you learn at the Open House?

Discover more about SRP's long-standing relationship with the St. Johns Community

Learn how SRP's Coal Communities Transition (CCT) Team is supporting the Apache County communities as they develop and implement strategic plans to diversify their economy

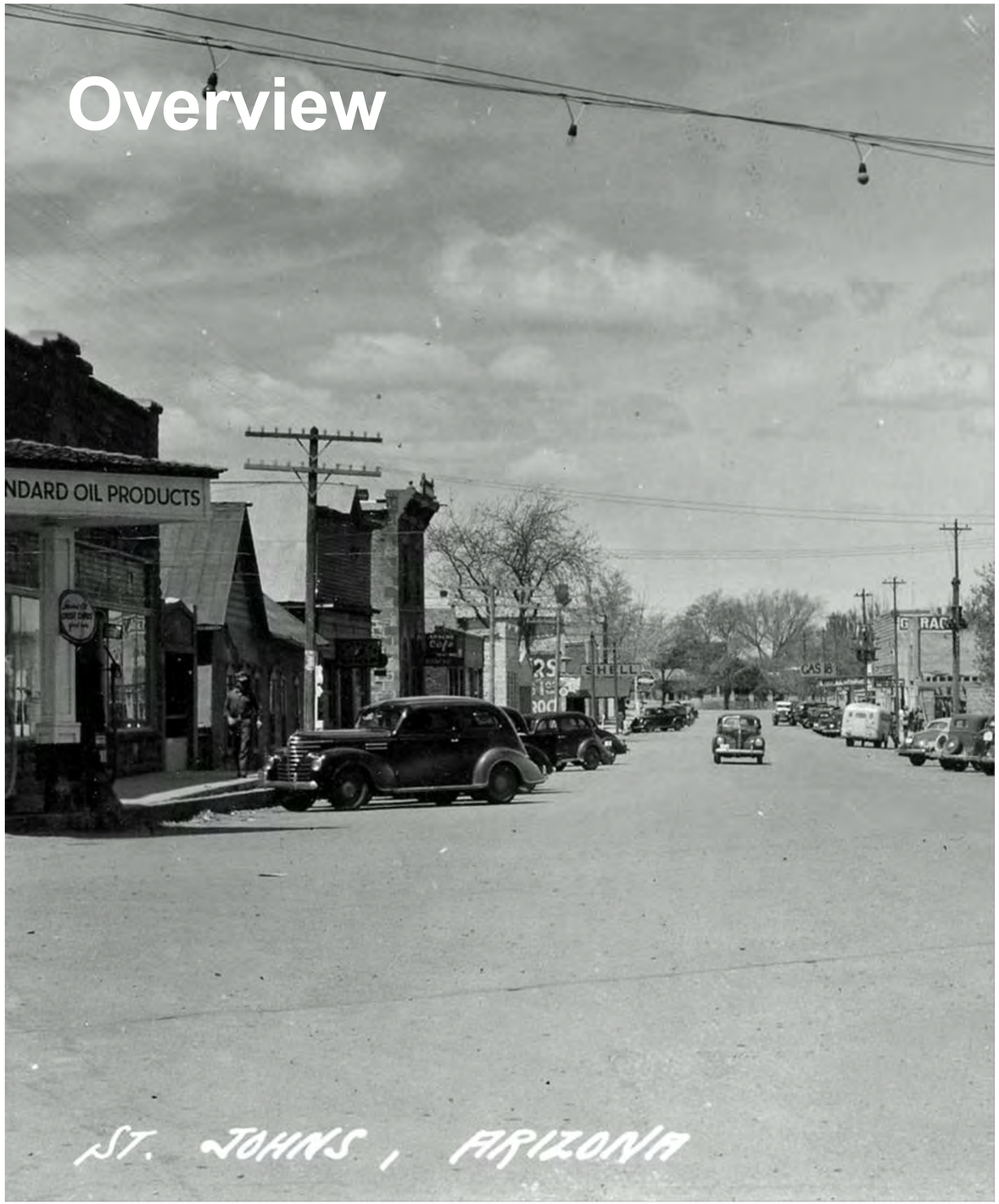


Learn more about CGS Repurposing Study, the study process, its timing and how you can stay informed



Discover some of the technologies being studied and how they work

Overview



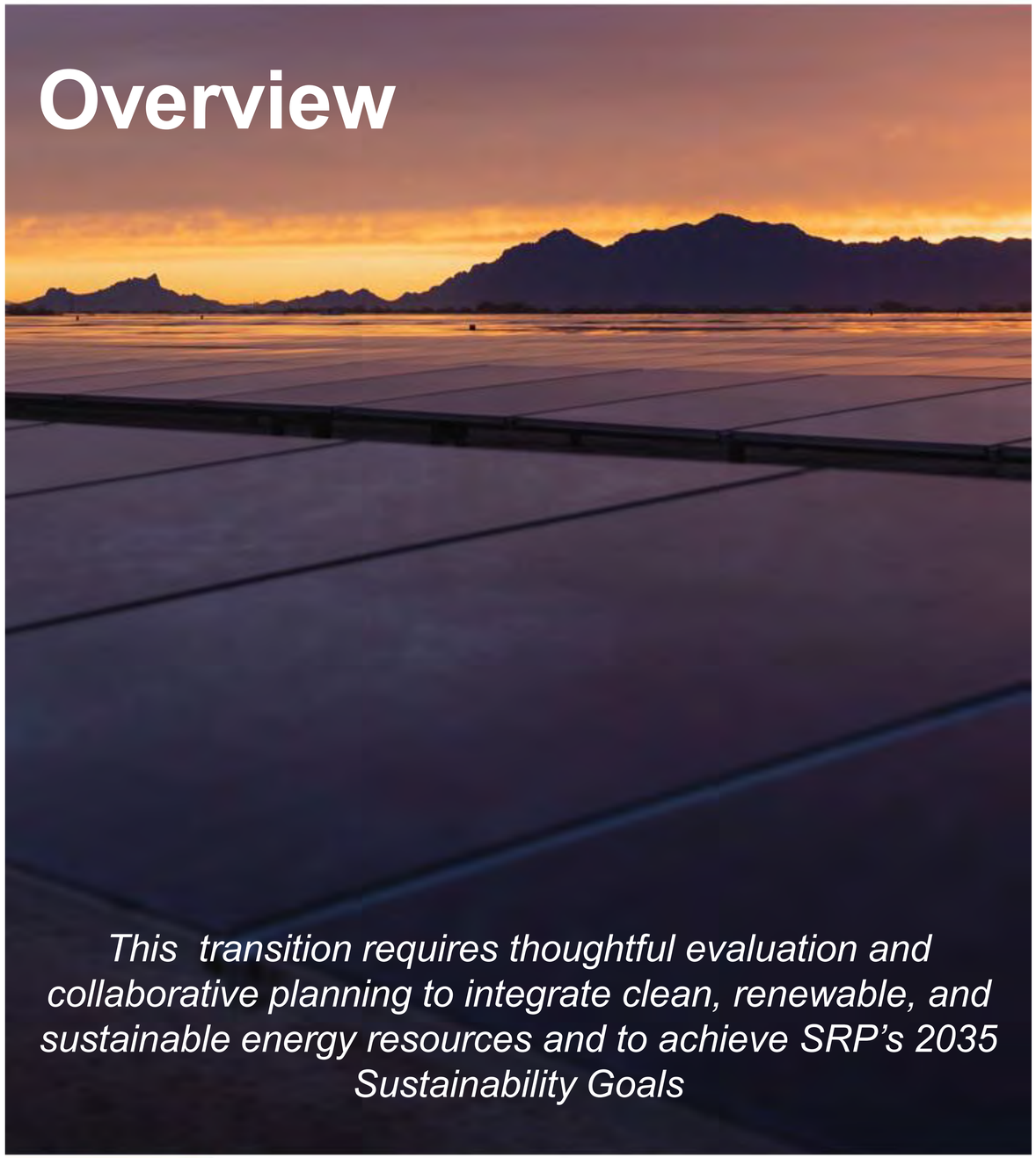
- Since construction of the Coronado Generating Station (CGS) began in 1975, SRP and the City of St. Johns have enjoyed a long-standing relationship

- In January 2020, SRP announced that CGS would be retired no later than 2032

- SRP created the Coal Communities Transition team to support impacted communities reliant on CGS as they shift their focus to develop sustainable and strategic economies

- Support includes job skills training and contributions to nonprofits that support these communities

Overview

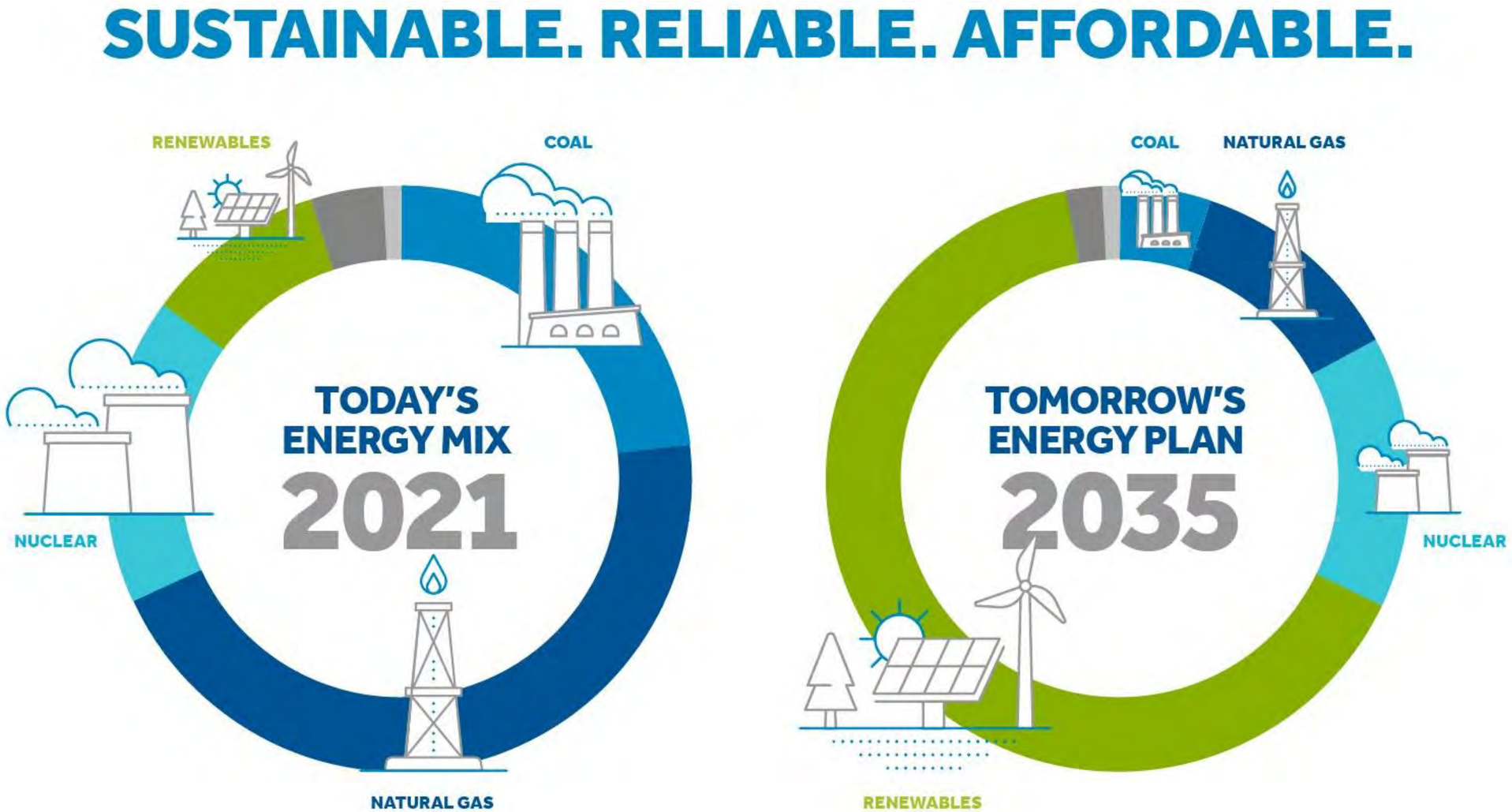


This transition requires thoughtful evaluation and collaborative planning to integrate clean, renewable, and sustainable energy resources and to achieve SRP's 2035 Sustainability Goals

- Ensuring sustainable, cost-effective, reliable power delivery is a cornerstone of SRP's customer-focused mission

- The electric power industry is undergoing a significant transition driven by changes in technology, economics, regulations and customer demands

SRP's Future Energy Mix



COAL COMMUNITIES TRANSITION

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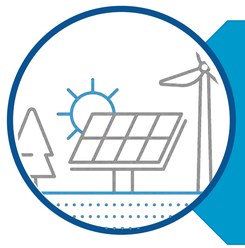

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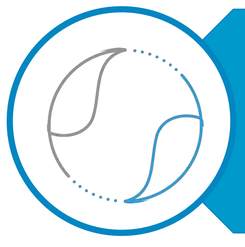


Discover some of the technologies being studied and how they work

Coal Communities Transition (CCT)

Mission of the CCT team- support the communities impacted by Apache County coal plant closures as they develop sustainable and strategic economies

Achieving this goal includes:

Conducting economic development studies

Studying the potential for the reuse of coal plant sites

Assist communities in developing and implementing strategies to diversify their economies

Coal Communities Transition Phases

Community Engagement

Communities impacted by coal plant closures identified four critical needs as the pillars for diverse, strategic economies:

- Broadband
- Transportation Infrastructure
- Workforce Development
- Housing

Studies and Assessments

- Plant Closures Economic Impact
- Benefits of Expanding Broadband in Apache County
- Workforce Development and Transportation Infrastructure in Apache County
- CGS Repurposing Study

Economic Development Strategies

- Broadband Grant
- Communities Collaboration
- Transportation Planning Grant
- Arizona Commerce Authority Training
- Workforce Development Programs
- Utilities Grant Program

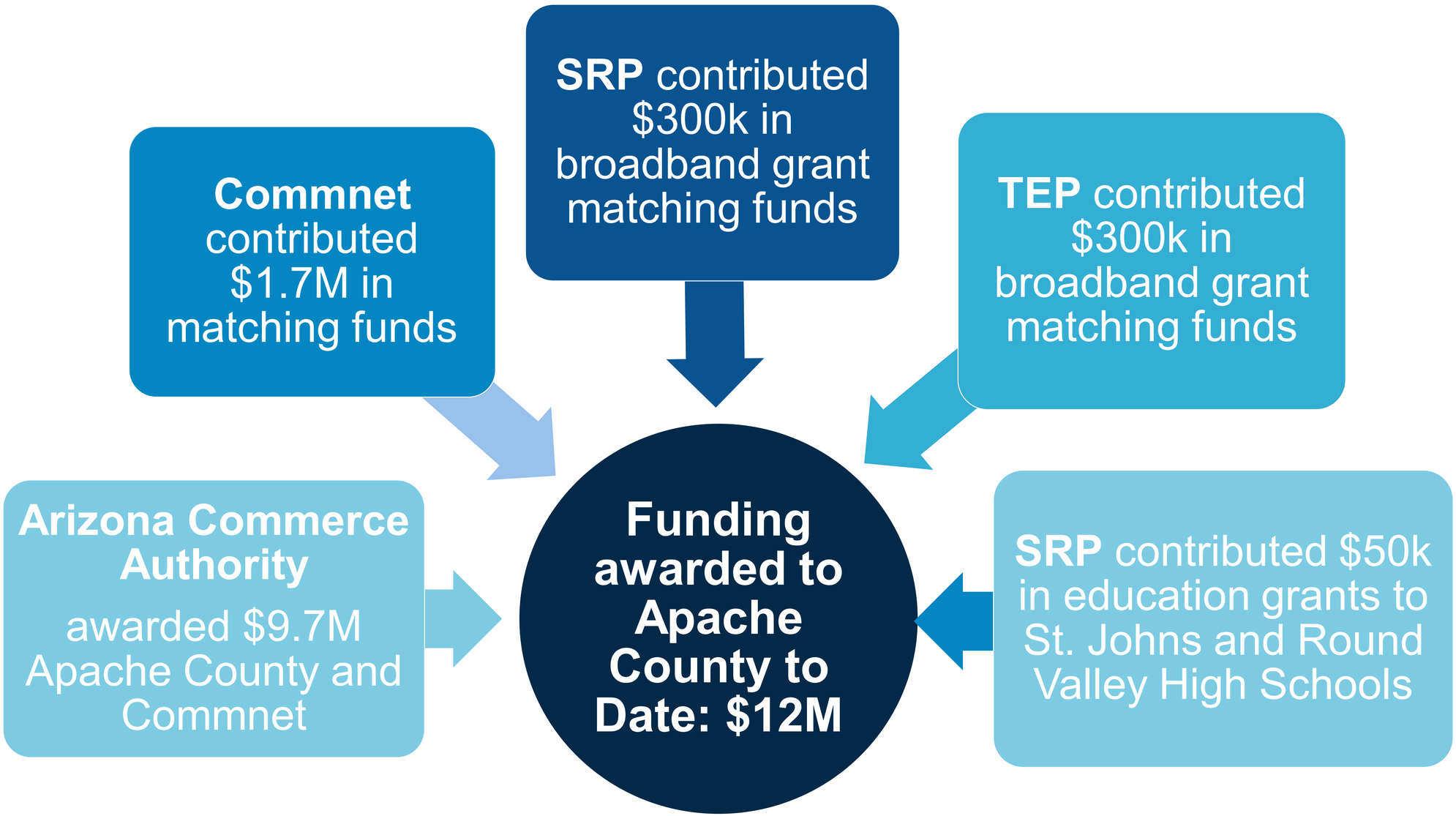
Broadband Grant

In collaboration with Apache County, SRP and TEP:

Identified the Grant Opportunity | Commissioned a Broadband Study | Contributed $300k each in Grant Matching Dollars

- Apache County and Carrier Commnet Applied for the Grant
- Arizona Commerce Authority awarded $9.7M to Apache County and Commnet
- Benefits Eight Apache County Communities

Apache County Funding



Community Workforce Development

City of St. Johns

Northern Pioneer College

High Schools

Round Valley Schools

CGS REPURPOSING STUDY

Delivering water and power

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CGS Repurposing Study

“…the studies will look at options and planning for the future and is a first step in what will be a long, thoughtful and collaborative process.”

Kelly Barr, Chief Strategy, Corporate Services and Sustainability Executive at SRP

CGS Repurposing Study

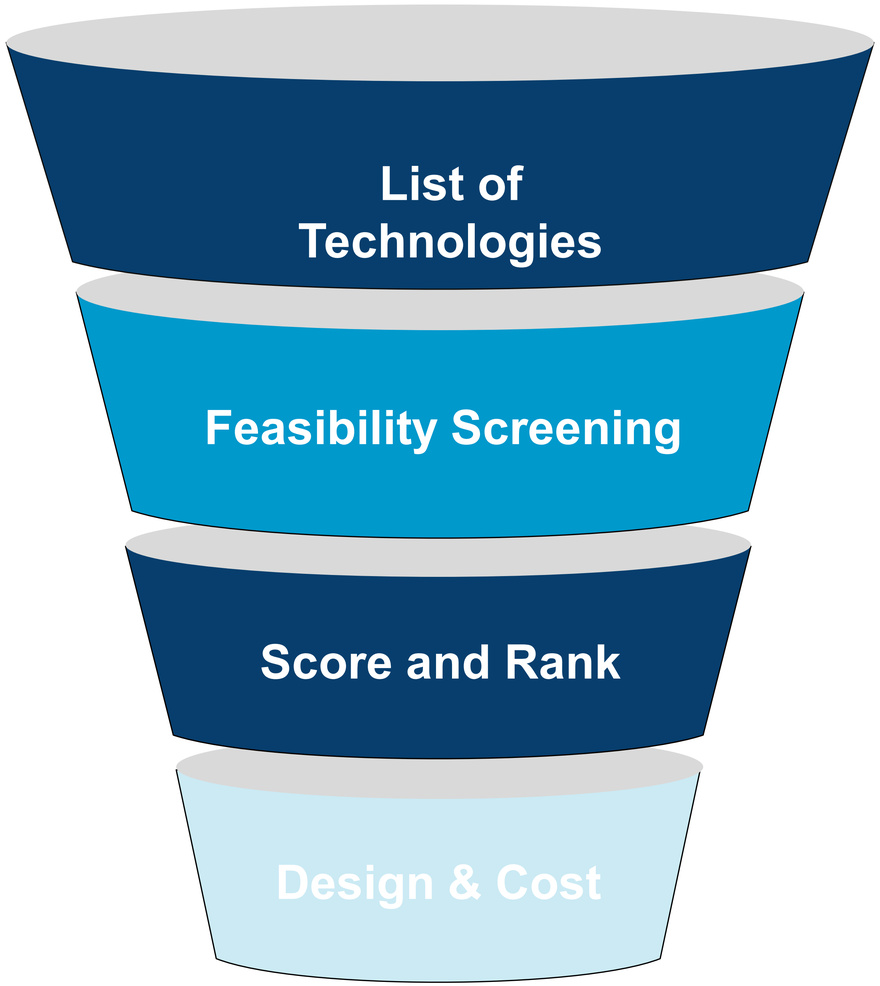
As part of the energy transition SRP is investigating potential reuses of the CGS site. Kiewit Engineers and Gateway for Accelerated Innovation in Nuclear (GAIN) are supporting two of the studies:

Kiewit is studying low carbon emitting generating resources (other than nuclear)

GAIN, a U.S. Department of Energy initiative, is studying the feasibility of advanced nuclear generation at the CGS site as a possible long-term option

This initial phase of the CGS Repurposing Study will be completed in spring 2023

CGS Repurposing Study



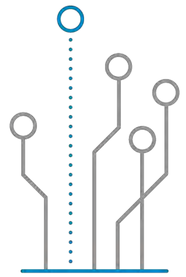
GOAL of the repurposing study is to identify technologies most promising for the site

PROCESS may occur in phases as new technologies mature

DECISION depends on SRP's future resource needs, which may not be evident until 2027 or 2028

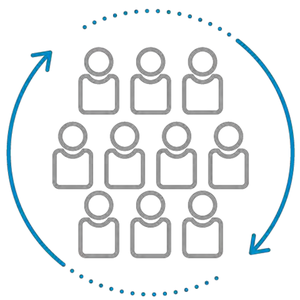
It is possible that SRP may decommission CGS without an actionable post-closure plan

Next Steps Following the Study



- Identify Technologies

- Monitor Technologies & SRP's Resource Needs
  - Technology Readiness
  - Supply Chain
  - Resource Plan



- Keep Community Informed


GAIN
Gateway for Accelerated
Innovation in Nuclear

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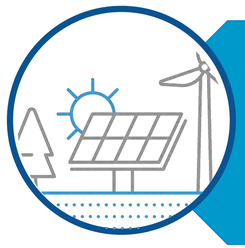

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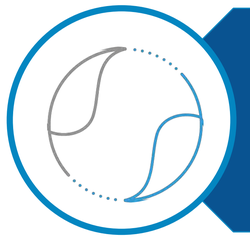


Discover some of the technologies being studied and how they work

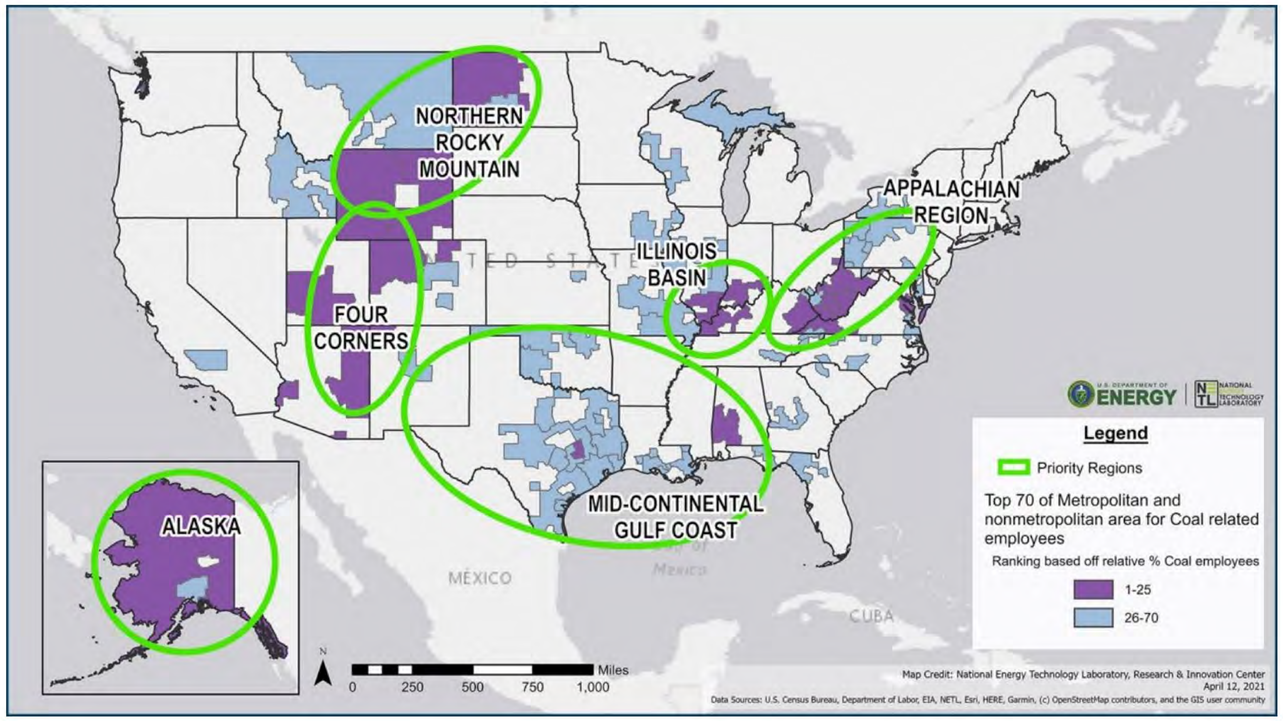
Technologies on Display

- Are a sample of the full list under consideration
- Are in various stages of development
- Must demonstrate successful utility scale deployment by the mid-late 2020s to be a viable options

SRP will continue to monitor the progress and deployment of various technologies as part of the ongoing CGS Repurposing Study.

Case Study Pilot (in partnership with DOE-FECM)

GAIN is in the process of scoping several case studies of specific coal sites/plants to understand the parameters that will have the most influence on moving forward with transitioning a coal site to nuclear. Scope several this year – complete 1 or 2 in the calendar year and initiate others in the future.



TerraPower — A Nuclear Innovation Company
GAIN — Gateway for Accelerated Innovation in Nuclear
EPRI — Electric Power Research Institute
Microsoft
Bryden Wood
Fastest Path to Zero — University of Michigan
TERRA PRAXIS
Simpson Gumpertz & Heger — Engineering of Structures and Building Enclosures
NEI — Nuclear Energy Institute
Oak Ridge National Laboratory
Massachusetts Institute of Technology
University at Buffalo
Idaho National Laboratory
Argonne National Laboratory
NRIC
Southern Company
SODI — Southern Ohio Diversification Initiative
TVA — Tennessee Valley Authority
orano
CATF — Clean Air Task Force

Coal to Nuclear Research Group

Each group is leading important projects associated with potential repurposing coal sites with nuclear technology. Use group discussions to align our individual efforts to make the most of this opportunity for the broader industry. In addition, get constructive feedback on GAIN case study pilot project.

Coronado Generating Station

Primary Objective: Assess the feasibility of transitioning from coal to nuclear; Learnings will help 6 other coal units within commuting distance

- Siting Evaluation (leveraging EPRI's Siting Guide)
  - Assess suitability of the CGS site for a nuclear power plant.
  - Identify strengths and weaknesses associated with the site.
  - Support selection of preferred nuclear technologies (based on evaluation results).

- Economic Impact Assessment
  - Evaluate economic outcomes we may expect from (a) coal plant retirement and (b) introduction of a nuclear power plant, focusing on impacts to the community.

- Nuclear Technology Assessment (leveraging EPRI's Nuclear Technology Assessment Guide)
  - Identify and document candidate nuclear technologies that could be leveraged at CGS, building off siting evaluation results.

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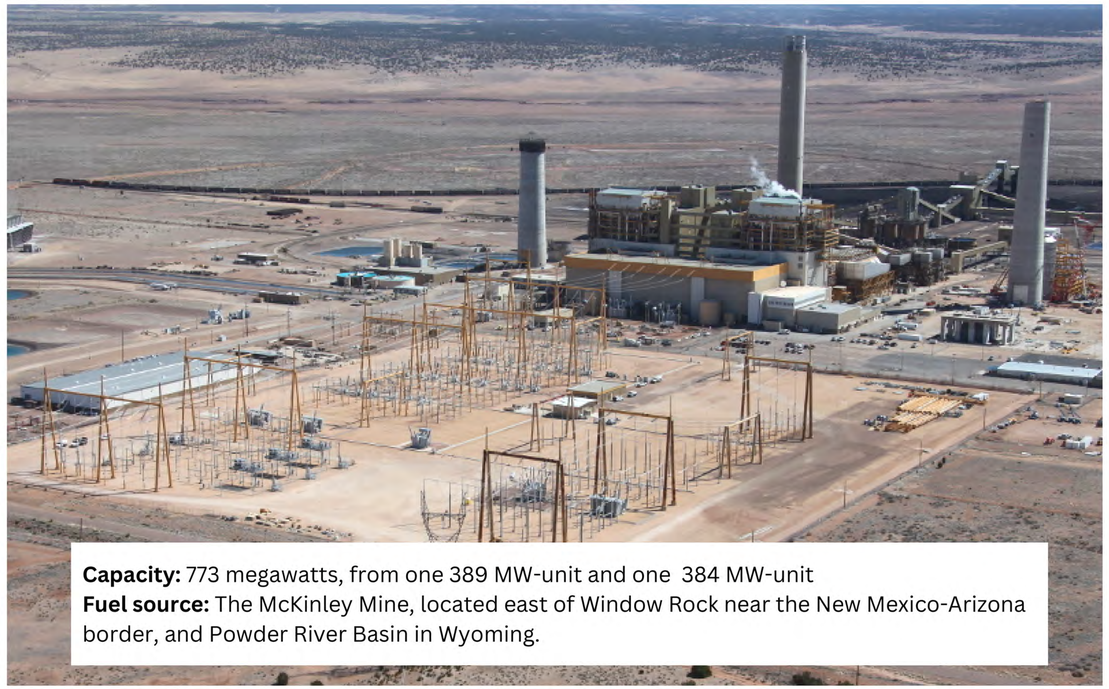
MPR



Capacity: 773 megawatts, from one 389 MW-unit and one 384 MW-unit
Fuel source: The McKinley Mine, located east of Window Rock near the New Mexico-Arizona border, and Powder River Basin in Wyoming.

Coronado Generating Station
Owned/Operated by
Salt River Project
Located in Saint Johns, AZ

Advanced Fission

- Categorized in terms of capacity
  - Microreactors: <20 MWe (megawatt electric)
  - Small reactors: 20 MWe – <300MWe
    - Small Modular Reactors: use modular construction
  - Medium reactors: 300MWe - 700 MWe
  - Large reactors: > 700 MWe
- Variety of coolants (gas, sodium, salt, lead, water)
- Clean, high availability
- Diverse markets
- Improved safety, waste, security, and target economics
- 60+ private sector projects

Small Town: 1 Megawatt (MW)
Mid-size City: 1 Gigawatt (GW)
The US: 1,000 Gigawatts

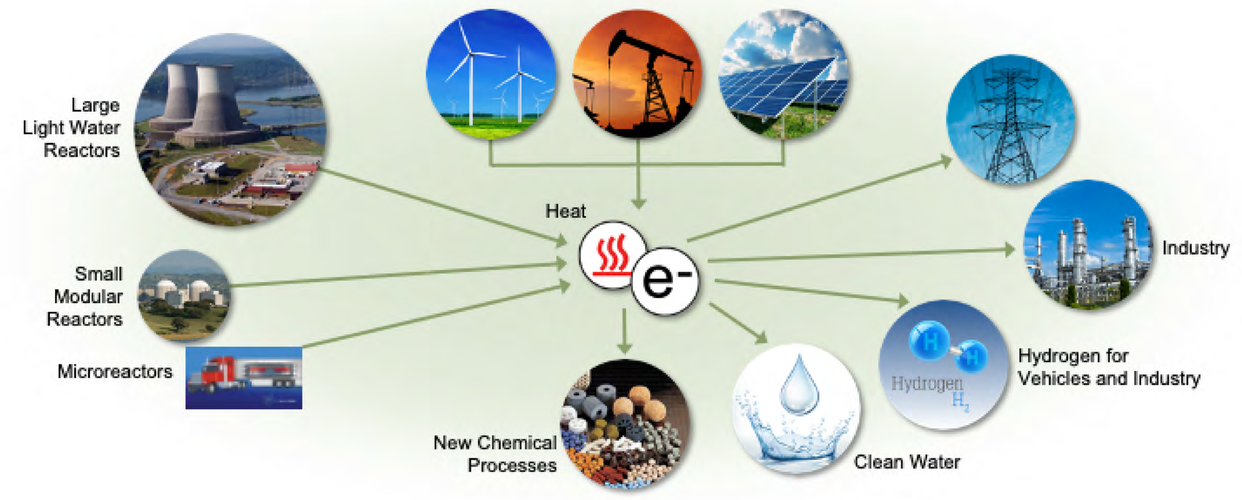
Flexible Generators * Advanced Processes * Revolutionary Design

Today

Electricity-only focus

Potential Future Energy System

Integrated grid system that leverages contributions from nuclear beyond electricity sector



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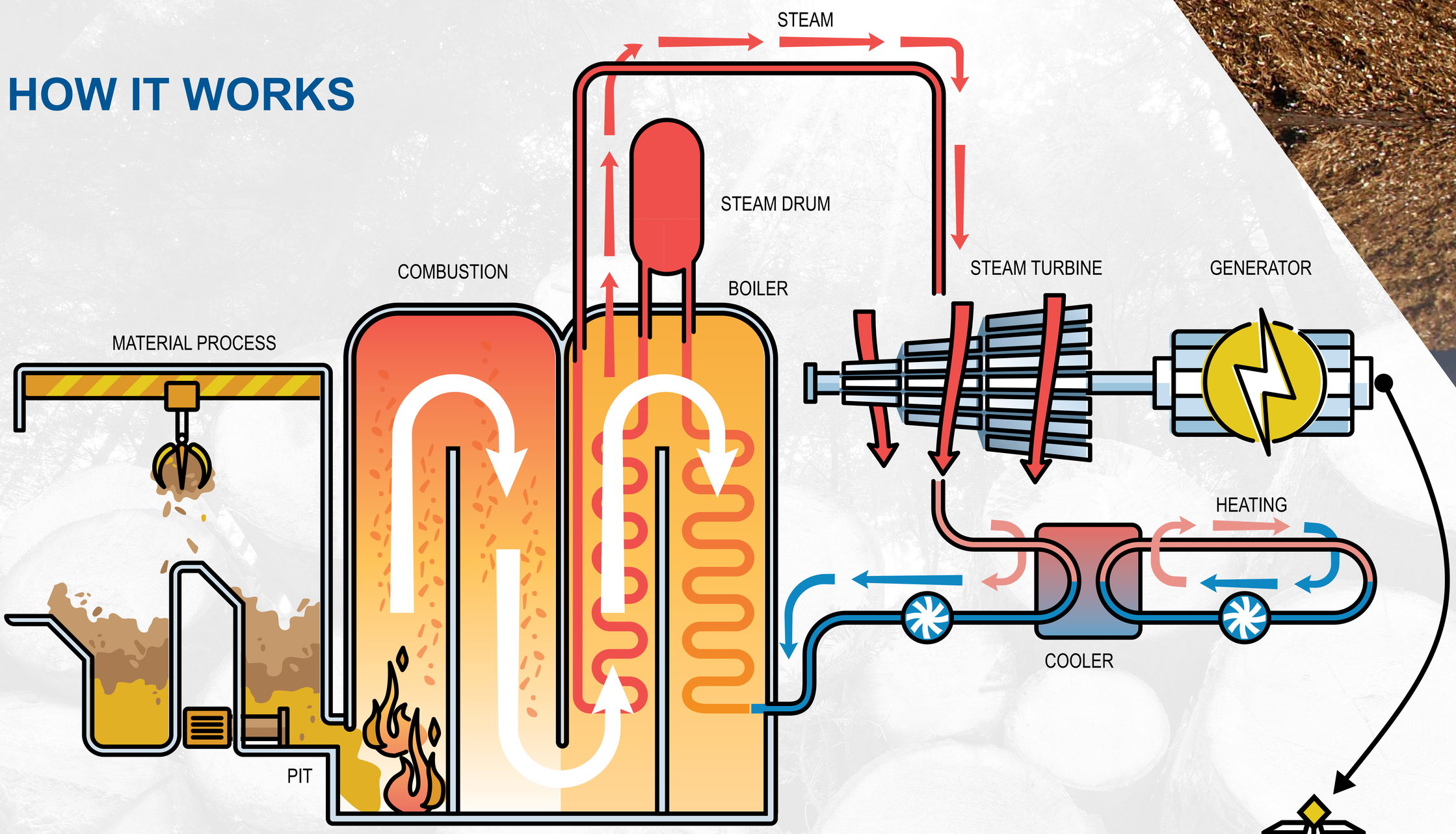
Gateway for Accelerated Innovation in Nuclear

BIOMASS ENERGY

HOW IT WORKS



ATTRIBUTES	BIOMASS*
Cost	HIGH
Water Consumption	HIGH
Land Required	MEDIUM
Facility Complexity	MEDIUM
Power Industry Experience	MEDIUM
Generation Capability	CONTINUOUS

*Ratings depicted are a limited comparison of the technologies on display.

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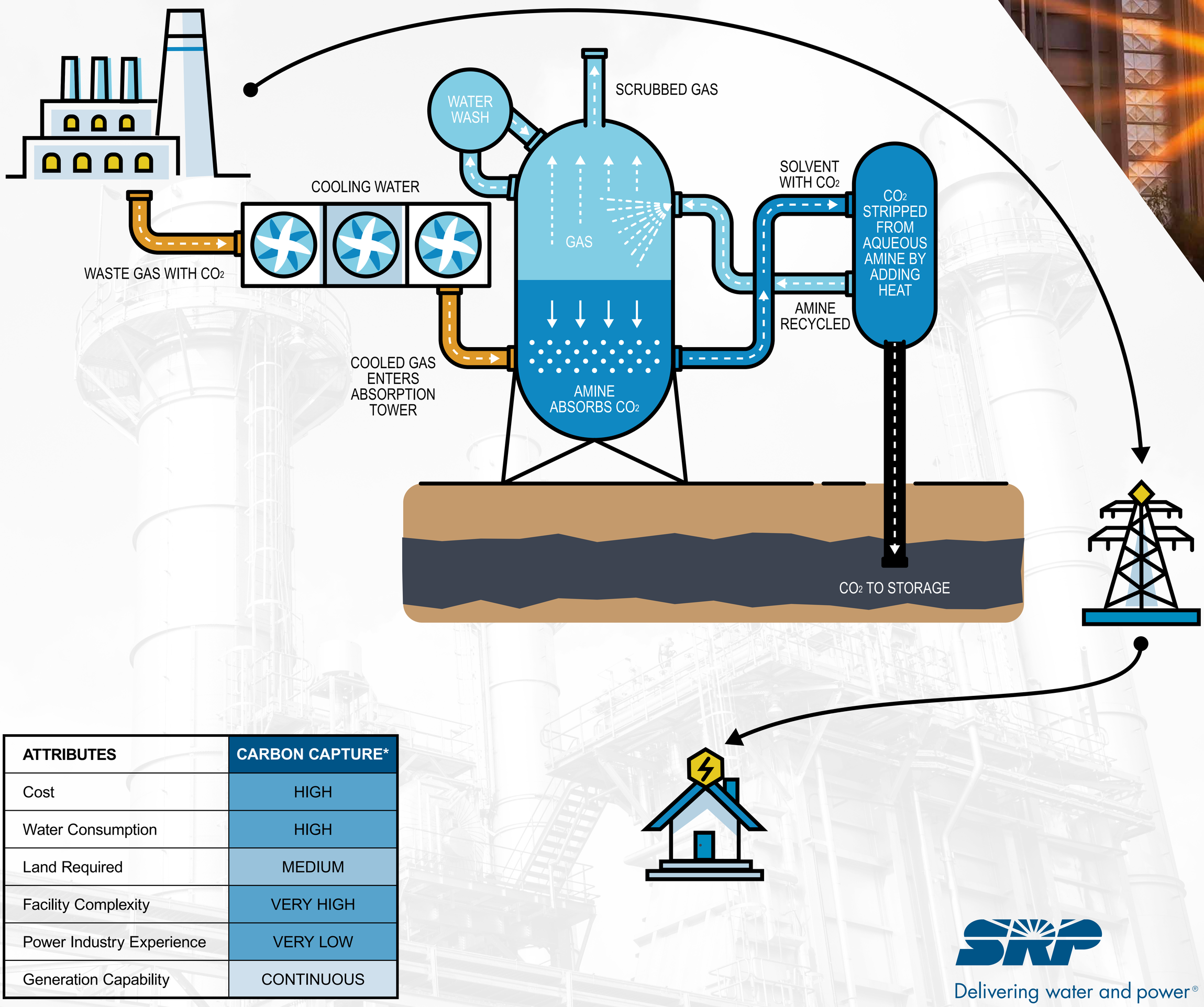
CARBON CAPTURE

HOW IT WORKS



ATTRIBUTES	CARBON CAPTURE*
Cost	HIGH
Water Consumption	HIGH
Land Required	MEDIUM
Facility Complexity	VERY HIGH
Power Industry Experience	VERY LOW
Generation Capability	CONTINUOUS

*Ratings depicted are a limited comparison of the technologies on display.

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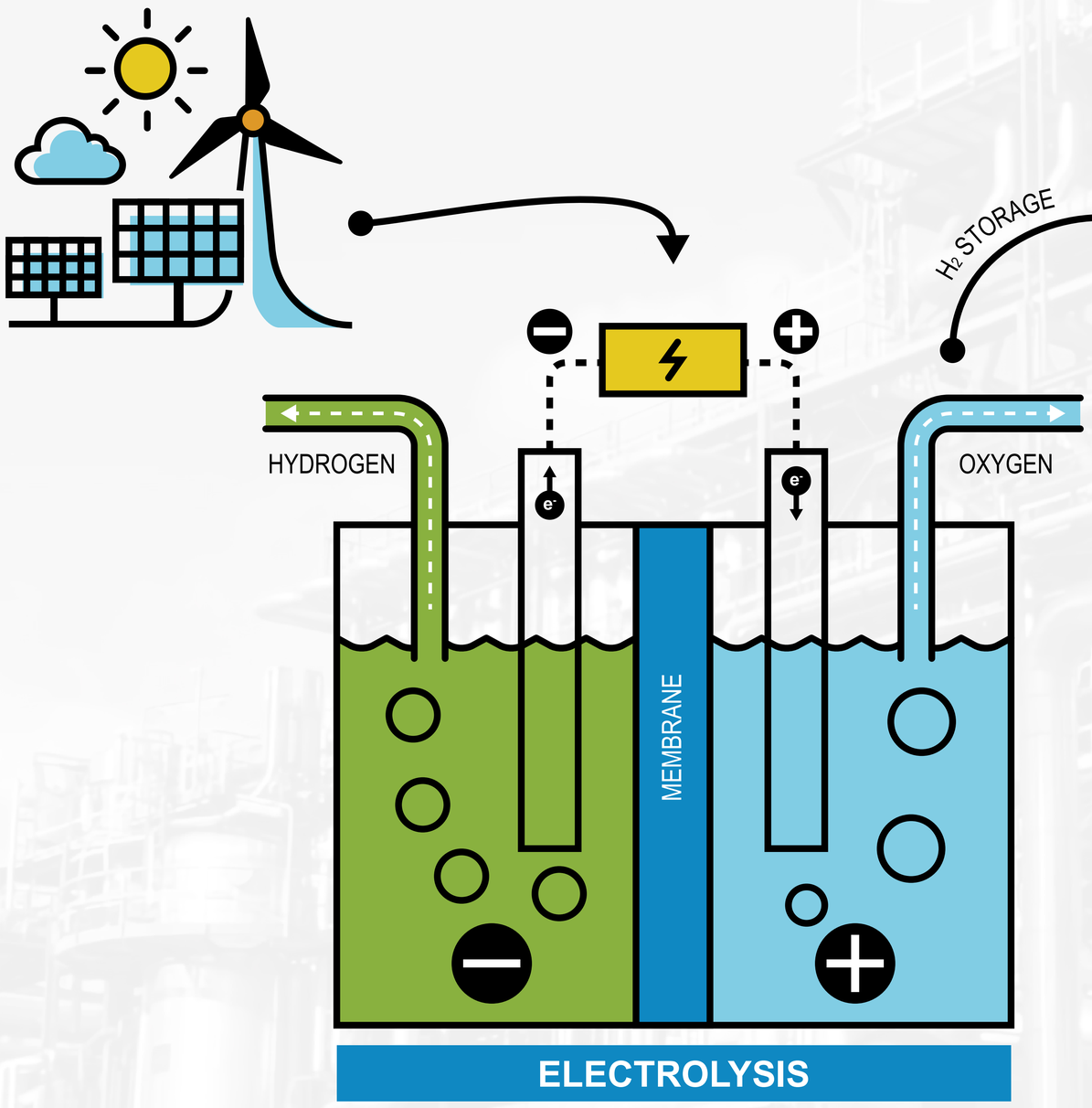
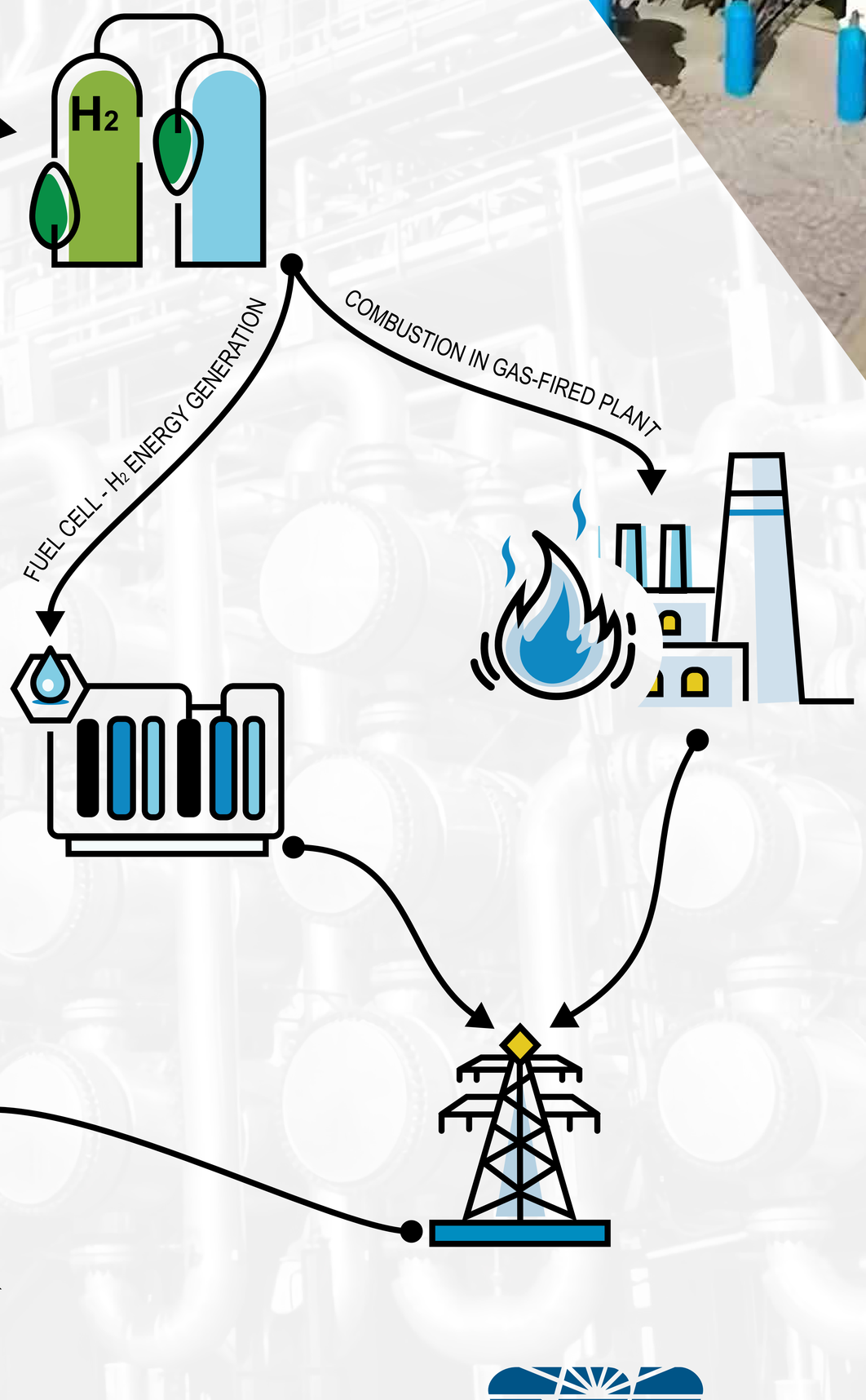
GREEN HYDROGEN

HOW IT WORKS





ATTRIBUTES	GREEN HYDROGEN*
Cost	VERY HIGH
Water Consumption	MEDIUM
Land Required	MEDIUM
Facility Complexity	HIGH
Power Industry Experience	LOW
Generation Capability	AS-NEEDED

*Green hydrogen is just one of the hydrogen conversion processes included in SRP's research and study. Ratings depicted are a limited comparison of the technologies on display.

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