

# Presentation to Capital Development Committee

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# Excellence 150 Years and Beyond

Established by the Territorial Assembly in 1874, **Mines and its specialized engineering and applied science mission are as critical and relevant to the future of State and Nation today as it was then, if not more.**

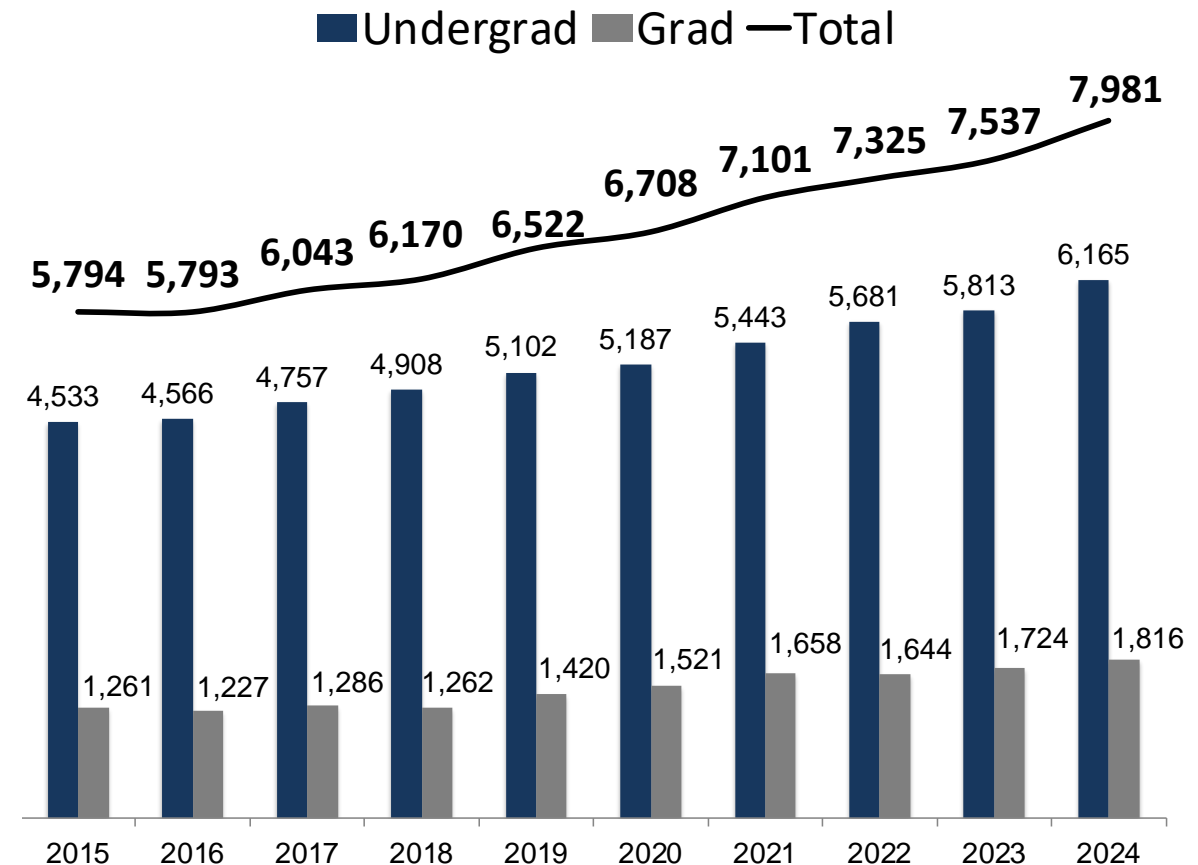
## Mines Value Proposition:

- Highly-valued, future-prepared, adaptable graduates.
- We work on things that matter and have specialized expertise.
- Strong industry partnerships and engaged alumni network.
- Best-in-class student success metrics and ROI.

## Total Enrollment increased by 22% since Fall 2019.

- Fall 24 Freshman class is largest in history (1,600).
- Undergrad Enrollment is the most diverse in our history: 29% of students identify as ethnically and racially diverse; and 32% of UG are women.

## Degree-Seeking Students, Fall Semester



# Serving Colorado's Economy

## Preparing Colorado's Future Workforce

- Highest graduation rate in State: 82% (6-yr), 69% (4-yr).
- Attracting talent to Colorado: 48% of freshman class from outside the State.
- Top job sectors for BS grads align with State's priorities: (1) Aerospace, (2) Civil & Construction, (3) Energy, (4) Tech / IT, (5) Manufacturing.
- Active partnerships with Community Colleges - Mines Academies @Red Rocks, Front Range, Aurora...

**Research with Impact: Awards increased by 60% since 2018 to over \$106 million.**

- Key Partner in major Statewide Initiatives totaling over \$200 million: CO-WY Climate Resilience NSF Engine, EDA Quantum TechHub, DOE Carbon Capture and Storage Ecosystem (Pueblo)

**Turning Ideas to Reality and Beyond: Launched comprehensive E&I Ecosystem via \$40+ million private investment in capital infrastructure and programming.**



**DOE Battery Challenge Year 1 Winner:  
Mines - Arapahoe CC Team**



# Signature Event: Mines Student Career Days

## Two Career Days Events per year

- **Fall: September 10-11, 2024 – 430 companies and organizations, 4,000+ students attended.**
- **Spring: January 28-29, 2025 – 350+ companies and organizations and 2,000+ students expected.**
- **Leading up to Career Days, Mines Career Center offers two weeks of workshops and industry panels to help students prepare.**



# Fiscal Year 2026 Capital Request

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# Steam and Utilities Infrastructure

Colorado School of Mines has urgent steam infrastructure needs regarding our boiler plant operations impacting our ability to provide heat to campus.

We also have a need to address utilities to connect to new buildings and other systems. Over \$800M of projects are being resourced by non-state funding and external sources.

## New Construction:

### Underway

- Energy and Minerals Research Facility – *under construction*
  - This portion of Utilities Infrastructure previously state requested but funded by Mines
- Sophomore Housing – *under construction*
- Classroom Building – *under construction*
- Parking Garage – *under construction*
- Beck Venture Center – *complete*

### Future

- Research and Academic Buildings
- South Campus
- Athletic Administration
- Dining Expansion

**These 2 projects will also have a large effect on eliminating deferred maintenance:**

- Replace 1 Boiler | Replace 4 Chillers | Eliminate 2 chillers



# Fiscal Year 2026 Requests

## *Enabling Strategic Capital Development Priorities*

- Steam Infrastructure - \$9.4M (\$7.0M CCF and \$2.4M CF)
  - Provides for the installation of a replacement boiler that Mines will be purchasing
  - Renews aging and failing existing infrastructure systems
  - Addresses capacity constraints for existing facilities
  - Enables expansion of strategic capital development that are resourced by additional revenue and external source
- Utilities Infrastructure - \$26.5M (\$16.4M FY26 + \$10.1M FY27)
  - FY26 Phase for \$16.4M: \$12.3M CCF/\$4.1M CF



# Steam Infrastructure Capital Request





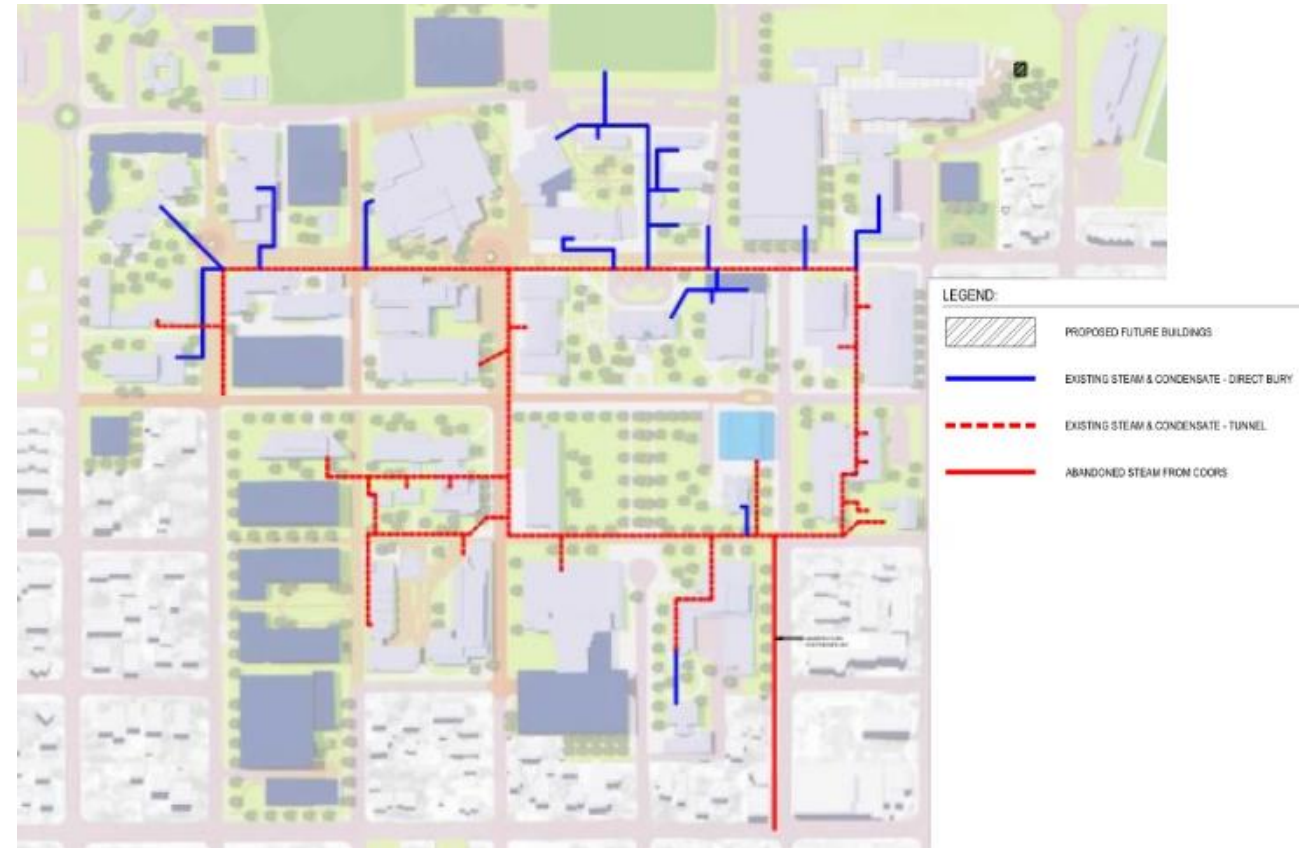
# Steam Infrastructure

Mines runs a boiler plant to supply heat to campus with three boilers. Several years ago, one of the boilers failed which has put capacity and redundancy risk to our operation.

For the past two years, we have submitted the boiler replacement as part of a State Capital Construction Request for infrastructure improvements that also included electrical and chilled water scopes.

Due to the critical nature of this conditions and the long lead time for boilers, Mines will be purchasing the boiler and are requesting (again) for the boiler replacement infrastructure (installation) to be funded through CCF.

State funds for this project will provide installation and plant modifications to install the new high efficiency boiler.

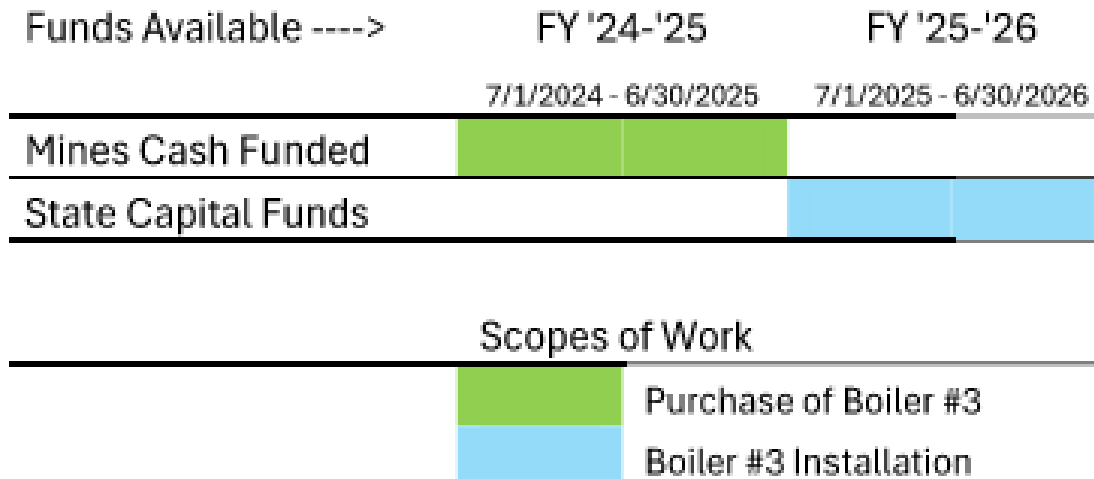


# Steam Infrastructure

The chart below describes the multi-year funding strategy required to address the deteriorating campus steam infrastructure.

The total project cost is \$9.4M of which \$7.0M is being requested as CCF. The remaining \$2.4M will be CF by Mines.

**\$9.4M Total Project Cost – Request: \$7.0M CCF/\$2.4M CF**



# Utilities Infrastructure Capital Request



# Utilities Infrastructure

This two-phase project addresses needs for new buildings and intends to address higher priority projects first. The request has been on the capital renewal request list for two years

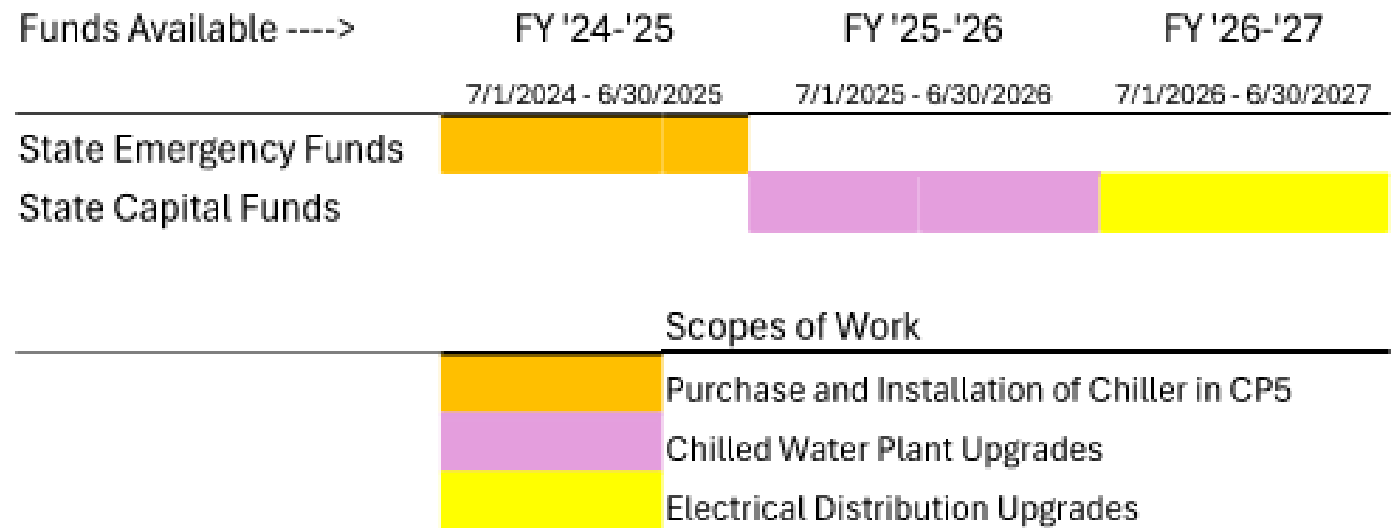
The chart below describes the multi-year funding required to address the needs

## \$26.5M Total Project Cost

The current year project cost is \$16.4 of which \$12.3 is being requested as CCF. The remaining \$4.1 will be CF by Mines.

## \$16.4M Total FY26 Project Cost (Phase 1)

## \$10.1M Total FY27 Project Cost (Phase 2)



# Utilities Infrastructure

Scope includes:

- **Chilled Water:** New Equipment and piping in Chiller plant 4 for future campus expansion and reliability to campus research buildings. Piping to Connect Chiller plant 4 with Chiller plant 7.
  - Equipment and piping for Chiller plant 5. Development and added reliability to the chilled water system on campus. Extension of Chilled water piping to future research building sites.
- **Communications cable** at 18th St, south campus, and campus loop 2
- **Medium voltage infrastructure** along the south side of 19th St., 18th and reshuffling ISOC
- Includes the addition of **photovoltaic panels** to two buildings and additional EV charging stations across campus in support of the Governor's Initiative of Greening state government.
- 50 +/- Level 2 **electric vehicle chargers** to existing campus parking areas



Thank you

