

# POWER PLAYS™

DRILLING INTO GEOTHERMAL ENERGY APPLICATIONS

#SMUPowerPlays

January 10-11, 2018

SMU Campus, Dallas, TX

## Coal and Geothermal: A Path Forward

### Achieving Site Sustainability for Coal-fired Power Plants

January 10, 2018 A workshop preceding the Power Plays Conference

**Why** Numerous U.S. coal power plant sites have recently or will soon be shut down, and many are near the end of their economic useful life. Rather than close these plants altogether, impacting baseload capacity and employment, this workshop provides a path forward to dramatically lowering emissions while still providing baseload power by utilizing geothermal energy at the same sites.

**What** Determine method to transition coal fired power generation plants to geothermal power plants, leveraging existing infrastructure including permits, grid connectivity, skilled workforce, physical footprint, an existing customer base, etc. Suitable sites are believed to exist at numerous coal plants around the country and even outside of the U.S.

**How** Certain coal plants are located within sedimentary basins where oil and gas industry activity has provided a greater understanding of the heat resources below them. To reach and extract the usable heat as a resource will require a series of Enhanced Geothermal System (EGS) production and injection wells at each coal plant site to generate enough power to replace the coal fired generation. This is not a trivial effort in terms of time or money, so the idea is to add the geothermal capacity in stages as wells are brought online. The power plant could retain their income stream and maintain their commitments to deliver a given capacity as they initially provide power consisting of both coal and geothermal generation, transitioning to all geothermal by the end.

**Who** Coal plant and industrial site owners and operators, experienced subsurface and surface geothermal well and heat transfer engineers, key technology and service companies, finance and investment bankers, and regulatory agency personnel are invited to apply. Accepted participants will be expected to 'roll up their sleeves' and help work out approaches for moving coal and/or industrial sites to geothermal plant conversion from the drawing board, through non-subsidized financing, to completed projects.

**When and Where** The full day workshop is Wednesday, January 10, 2018 on SMU's Campus in Dallas, Texas. The workshop registration fee of \$795 **includes complimentary access to the Power Plays conference**, which begins the evening of January 10<sup>th</sup>, and concludes late afternoon on Thursday, January 11, 2018. A limited amount of expense reimbursement is available to qualified workshop participants. Email [geothermal@smu.edu](mailto:geothermal@smu.edu) for enrollment information.



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### Conference

**Power Plays: Drilling into Geothermal Energy Applications**

**Southern Methodist University campus, Dallas, Texas**

**January 10-11, 2018**

Power Plays will advance the understanding of geothermal resources in conjunction with waste-heat and direct-use applications, providing attendees with strategies for developing this clean energy reserve. Join others with expertise in field operations, project development, technology, finance, engineering and resource assessment from the geothermal, oil & gas, and renewable energy sectors to explore economic solutions for geothermal energy at the 2018 SMU Power Plays conference.

### Pre-conference Workshop

**Coal and Geothermal: A Path Forward**, January 10, 2018, details on reverse side.

### Post-conference Workshop

**Thermal Well Design & Integrity for Geothermal Applications**

**January 12, 2018**

[C-FER Technologies](#) is hosting this workshop which provides an overview of thermal and geothermal well design and integrity. Topics include casing, tubulars, liners, wellheads, and wellbore integrity.

### Event Details

**Name:** Power Plays: Drilling into Geothermal Energy Applications  
**Date:** January 10-11, 2018  
**Location:** SMU campus, Dallas, Texas  
**Website:** <http://www.smu.edu/geothermal>  
**Social Media:** [Twitter](#) | [Facebook](#) | #SMUPowerPlays  
**Contact:** Maria Richards, [mrichard@smu.edu](mailto:mrichard@smu.edu), 214-768-1975

Please share this information with others you know who may be interested. We look forward to learning about your research, demonstration project, or innovative idea!

