

We'll be starting in just a few minutes....

Visit our [Online Learning Series](#) page on the Solution Center to see our full series lineup, RSVP, and access previously recorded webinars.





Online Learning Series – Webinar #10 Energy Management During a Pandemic

Thomas Wenning

Oak Ridge National Laboratory



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Oak Ridge National Lab



Better Plants Online Learning Series

Webinar Topic	Speaker	Date	Time	Link
7. Energy Treasure Hunts with EPA	Alex Floyd (Tyson) Walt Brockway (ORNL) Walt Tunnessen (EPA)	08/20/20	1:00 - 2:00pm EST	
8. Pumps and Fans	Thomas Wenning (ORNL)	08/27/20	1:00 - 2:30pm EST	
9. Process Heating and Waste Heat Reduction	Sachin Nimbalkar (ORNL)	09/03/20	1:00 - 2:30pm EST	
10. Field Validation	Eli Levine (DOE) Paul Sheaffer (LBNL)	CANCELED	Rescheduled Date TBD	
11. Energy Management During a Pandemic	TBD	09/17/20	1:00 - 2:30pm EST	
12. MEASUR Tool Suite	Kristina Armstrong (ORNL)	09/24/20	1:00 - 2:00pm EST	Register
13. Process Cooling	Wei Guo (ORNL)	10/01/20	1:00 - 2:30pm EST	Register

Please go to www.slido.com

using your mobile device, or by opening a new window

Enter Event Code

#DOE

Agenda for Today

1 Report Findings

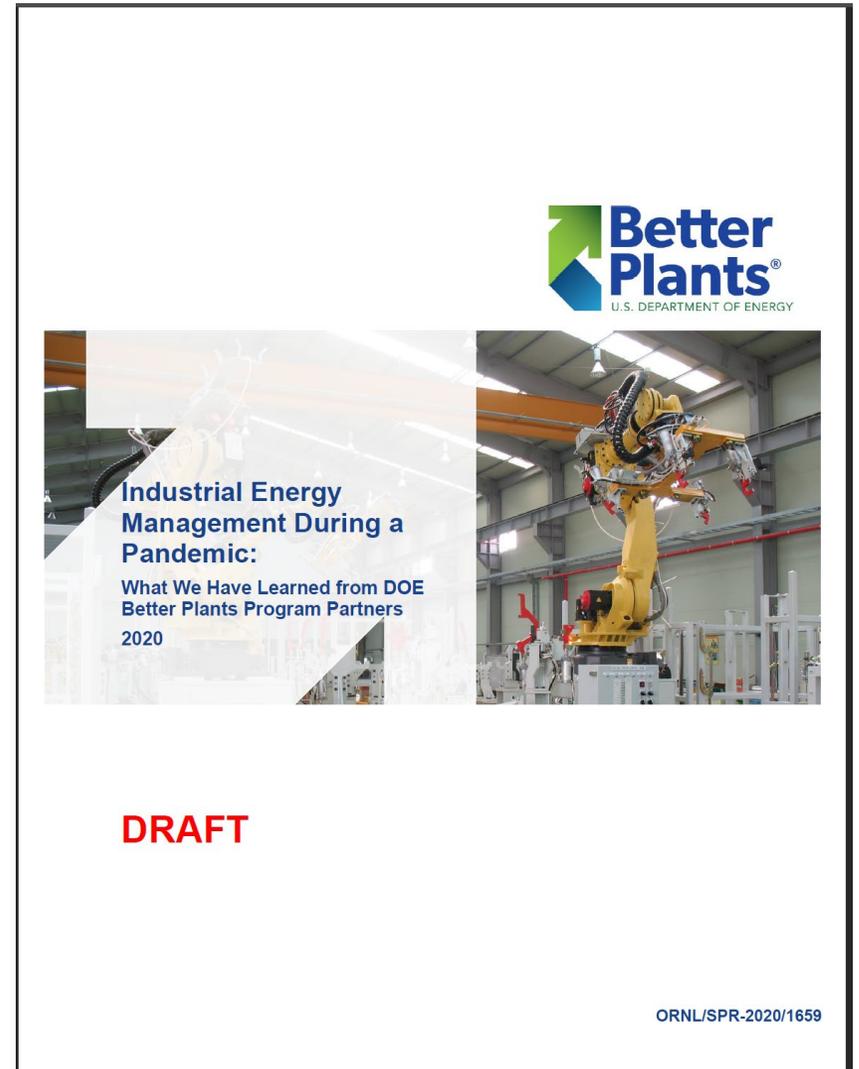
2 Fireside Chat

3 Q&A using Slido

New Report: Industrial Energy Management During a Pandemic: What We Have Learned from DOE Better Plants Program Partners

- Summarizes feedback from participants of the 2020 BBBP Summit
- Provides potential solutions to several of the current-day challenges partners are facing
- Includes references to relevant tools, resources, and case studies

https://energyefficiency.ornl.gov/wp-content/uploads/2020/09/Industrial-Energy-Management-During-a-Pandemic_DRAFT.pdf



Report Findings: Challenges in Industrial Energy Management

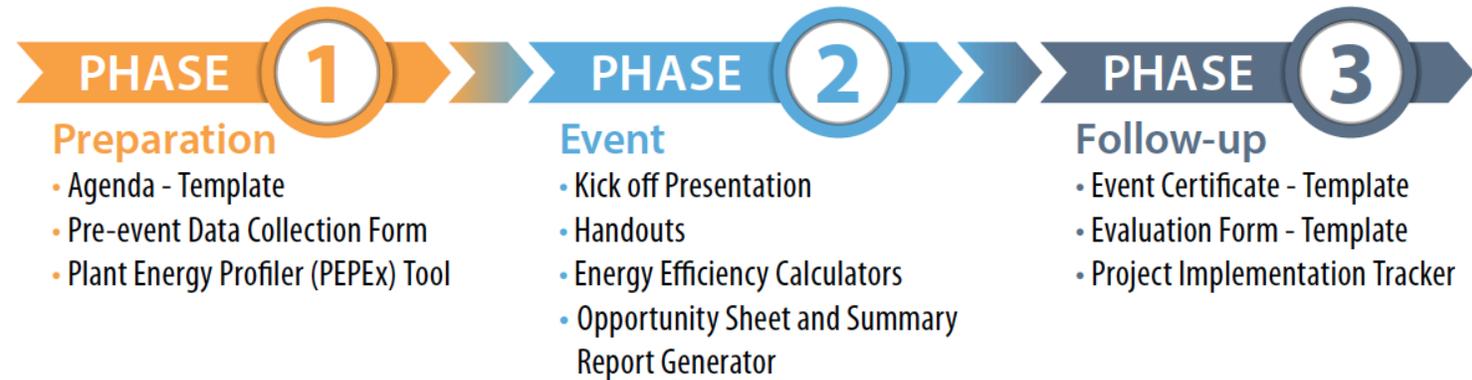
- 1. Strained Budget** for Energy Projects
- 2. Increased Energy Intensity** Caused by Low Production Rate and Some Safety Practices
- 3. Limited Access** to Energy Systems
- 4. Lost Knowledge and Experience** of Senior Staff



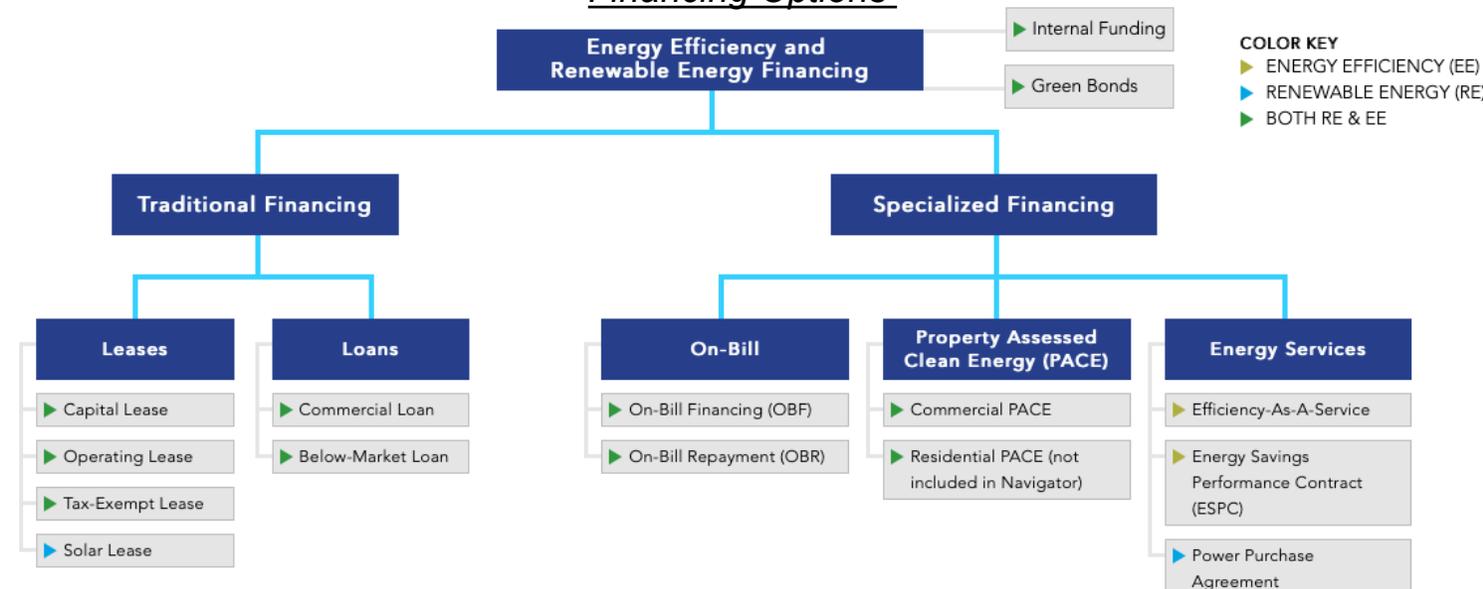
Solutions: Strained Budget for Energy Projects

- Implement **No- and Low-Cost Energy Conservation Measures**
- Adopt **Alternative Financing Options**

Three Phases of Energy Treasure Hunts



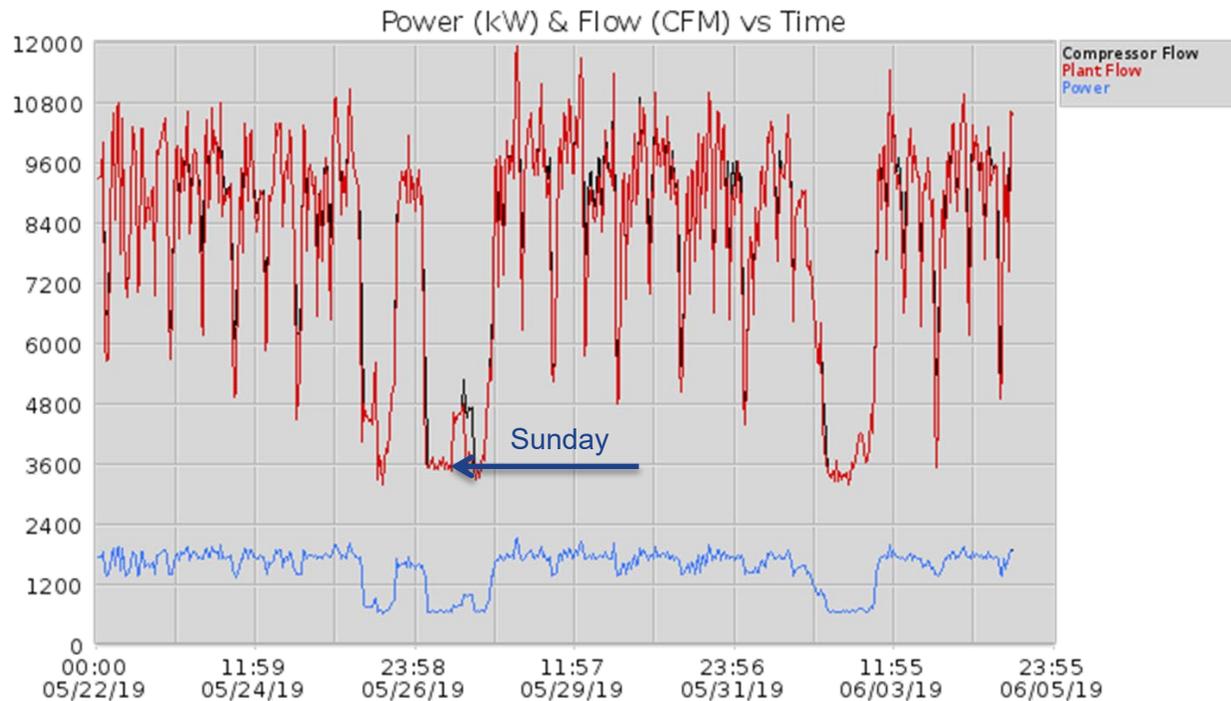
Financing Options



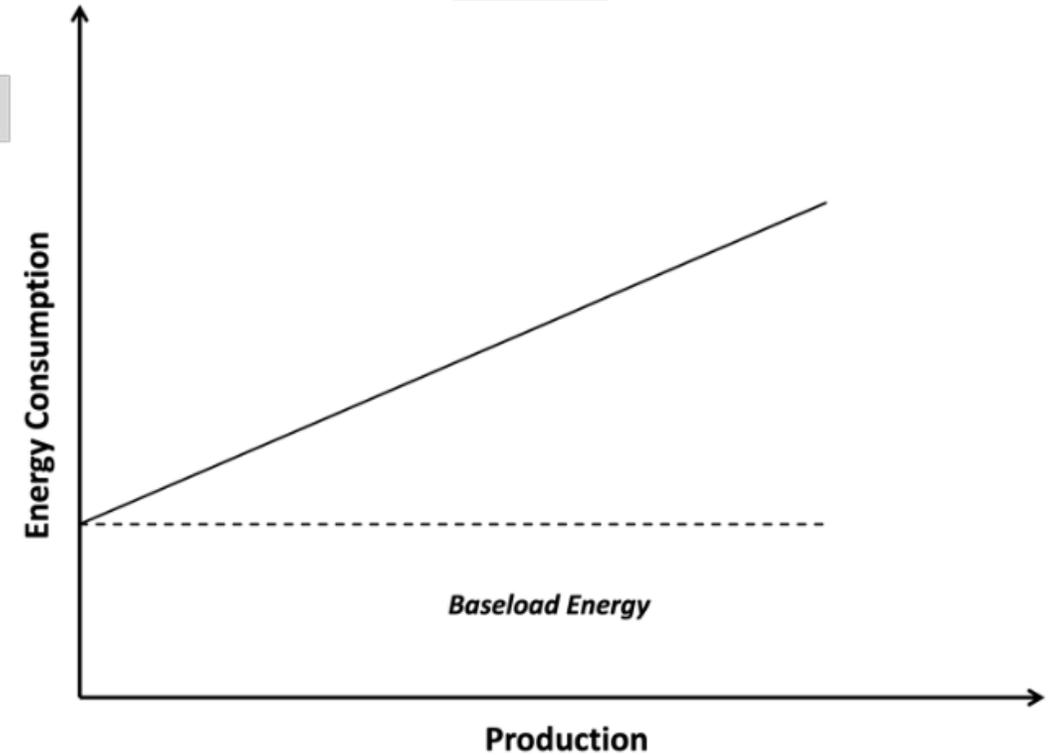
Solutions: Increased Energy Intensity Caused by Low Production Rate and Some Safety Practices

- Improve **Shutdown Procedures**
- Reduce **Baseload Energy**

Compressed air Flow vs. Power vs. Time



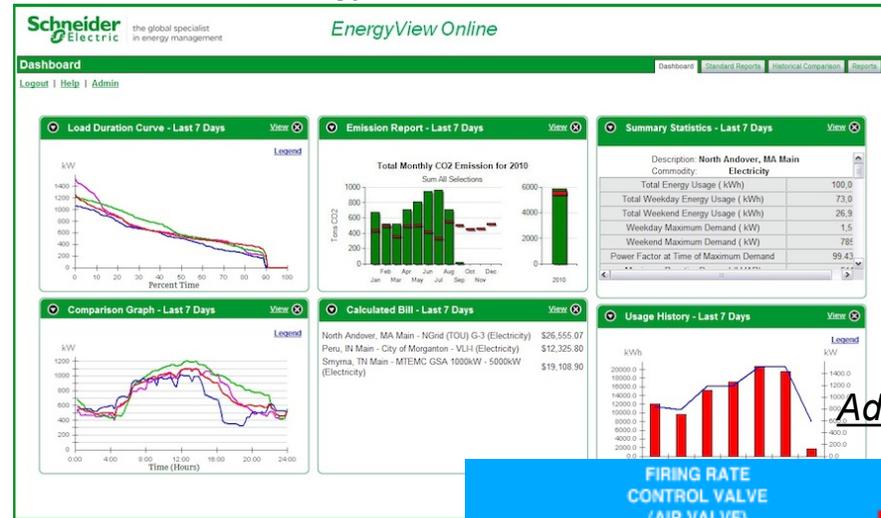
Baseload



Solutions: Limited Access to Energy Systems

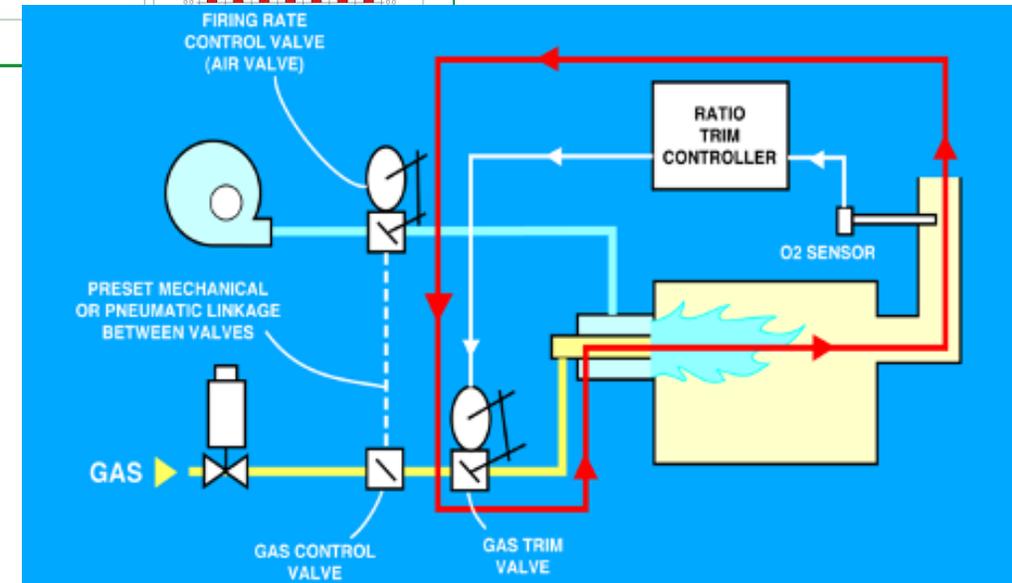
- Create an **Effective Online Energy Monitoring System**
- Deploy **Automatic Predictive Maintenance Technologies**
- Perform **Virtual Energy Assessments**

Energy Dashboard



Credit: Schneider

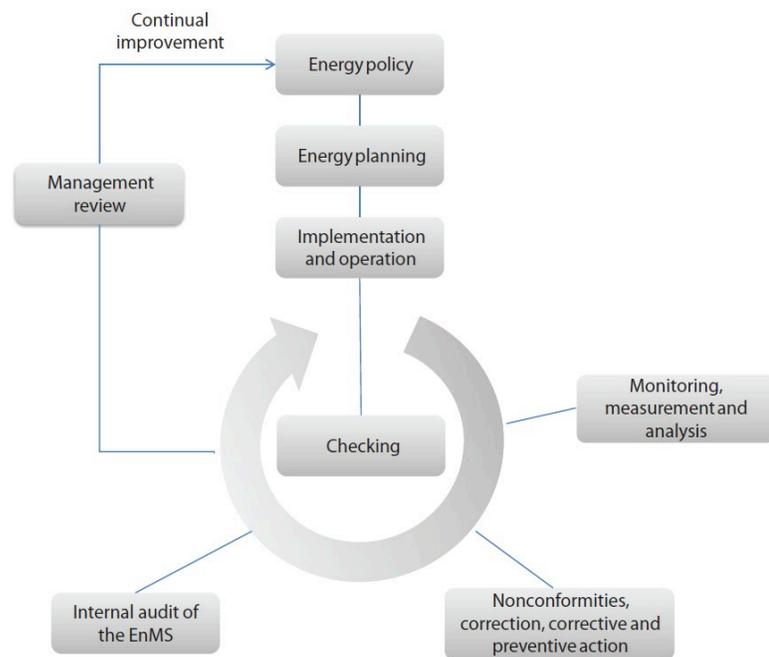
Advanced Air-to-Fuel Ratio Controls



Solutions: Lost Knowledge and Experience of Senior Staff

- Build a Robust **Energy Management System**

Energy Management System Model for ISO50001



Credit: ISO 50001

- Attend **Training Events**

Better Plants In-Plants Trainings and Online Learning Series

Host Plant Name / City, State	Energy System Type
Armstrong Flooring / Lancaster, PA	Treasure Hunt Exchange
General Motors / Roanoke, IN	Treasure Hunt Exchange
Whirlpool Corporation / Clyde, OH	Compressed Air
Ingevity Corporate / Wickliffe, KY	Multi-System (Fans & Pumps)
Flowers Foods / San Antonio, TX	Multisystem - Pumps, Steam & Water
Mitsubishi Electric Automotive America / Mason, OH	Compressed Air
Philadelphia Water Department / Philadelphia, PA	Wastewater

Webinar Topic	Speaker	Date	Time	Link
1. Better Plants Town Hall	Eli Levine (DOE), feat. Al Hildreth (General Motors)	04/16/20	RECORDED	Watch Recording
2. Basics of Energy	Thomas Wenning (ORNL)	04/23/20	RECORDED	Watch Recording
3. Lighting, HVAC, and Building Envelope	Thomas Wenning (ORNL)	04/29/20	RECORDED	Watch Recording
4. Resources You Should Know: USDA Rural Development Programs and the Department of Commerce Manufacturing Extension Partnership	Venus Welch-White (USDA) and David Stieren (NIST-MEP)	05/07/20	RECORDED	Watch Recording
5. Compressed Air Systems	Thomas Wenning (ORNL)	05/14/20	RECORDED	Watch Recording

Today's Panelists:



David Turkes
Bentley Mills



Wade Willatt
Nissan



Helder Silva
ArcelorMittal



Andrew Maude
Bristol-Myers Squibb Company



BETTER BUILDINGS

Better Buildings is an initiative of the U.S. Department of Energy (DOE) designed to improve the lives of the American people by driving leadership in energy innovation. Through Better Buildings, DOE partners with leaders in the public and private sectors to make the nation's homes, commercial buildings and industrial plants more energy efficient by accelerating investment and sharing of successful best practices.



Better Plants Online Learning Series

ENERGY TREASURE HUNTS WITH EPA

Thr, Aug 20, 2020 | 1:00 - 2:00 PM ET

PUMPS AND FANS

Thr, Aug 27, 2020 | 1:00 - 2:30 PM ET

PROCESS HEATING & WASTE HEAT REDUCTION

Thr, Sep 3, 2020 | 1:00 - 2:30 PM ET

FIELD VALIDATION

Thr, Sep 10, 2020 | 1:00 - 2:00 PM ET

ENERGY MANAGEMENT DURING A PANDEMIC

Thr, Sep 17, 2020 | 1:00 - 2:00 PM ET

MEASUR TOOL SUITE

Thr, Sep 24, 2020 | 1:00 - 2:00 PM ET

[REGISTER TODAY >](#)

PROCESS COOLING

Thr, Oct 1, 2020 | 1:00 - 2:00 PM ET

[REGISTER TODAY >](#)



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Additional Questions?

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