The Advanced Manufacturing Office (AMO) brings together manufacturers, research institutions, suppliers, and universities to investigate manufacturing processes, information, and materials technologies critical to advance domestic manufacturing of clean energy products, and to support energy productivity across the entire manufacturing sector.

What We Do

The Advanced Manufacturing Office uses an integrated approach that relies on three pillars to deliver energy and consumer cost savings:

- **Advanced Manufacturing Research and Development (R&D)** projects support manufacturing projects at American companies and research organizations that focus on specific high-impact manufacturing technology and process challenges.

- **Advanced Manufacturing R&D facilities** help the U.S. become a world leader in manufacturing by bringing together manufacturers, suppliers, and researchers in public-private R&D consortia. These consortia facilitate the transition of innovative advanced materials, information and process technologies to industry and enable manufacturing scale-up. Such technology development efforts help develop national capabilities that enable future global leadership in manufacturing.

- **Industrial Technical Assistance** supports the deployment of energy efficient technologies and practices to support 40 gigawatts of new, cost-effective combined heat and power (CHP) by 2020, and helps individual manufacturers reduce their energy intensity by 25%, over 10 years. In addition, Industrial Assessment Centers provide assistance in energy efficient, productivity, and waste/water use reduction to small and medium-sized manufacturers.

Program Goals/Metrics

- By 2020, demonstrate market-based industrial programs and practices yielding energy savings of 25% or more.

- By 2025, introduce manufacturing technologies and advanced materials that lower facility-level energy costs 50% or more, and/or provide 50% savings over targeted product lifecycles, compared to a 2010 baseline.

- Apply research, development and technical assistance to support the adoption of cost-competitive CHP technologies, which complies with Executive Order 13624. The national goal is to realize 40 GW of new CHP by 2020.

- Demonstrate energy management information tools and technologies building off of International Organization for Standardization (ISO) 50001.

- Establish up to six Clean Energy Manufacturing Institutes as the DOE-led component of the national network of manufacturing innovation institutes.

FY 2017 Priorities

- **Energy-Water Desalination Hub** will serve as a center of research for developing solutions and enabling technologies to de-energize, decarbonize, and reduce the cost of desalination to provide clean and safe water. FY 2017 is the first year of funding.

- **Critical Materials Hub** will receive the first annual increment of renewed funding to continue focusing on technologies that help American manufacturers make better use of existing critical materials, as well as to reduce or eliminate the need for materials that are subject to supply disruptions. FY 2017 is the first year of support for the second, final five-year phase.

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(Dollars in Thousands)

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<th>FY 2015 Enacted</th>
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For more information, visit: manufacturing.energy.gov