CHEMICAL SECTOR - 101

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Chemical Sector-Specific Agency





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Agenda

- What is Critical Infrastructure?
- Who is the Chemical Sector?
- What is a Sector-Specific Agency?
- What is the public-private partnership?





Critical Infrastructure and Sectors

Assets, systems, and networks, whether physical or virtual, are considered so vital to the United States that their incapacitation or destruction would have a debilitating effect on security, national economic security, national public health or safety, or any combination.

- Presidential Policy Directive 21 (PPD-21): Critical Infrastructure Security and Resilience, signed in 2013, identifies <u>16 critical infrastructure sectors</u>.
- <u>Advances</u> a national policy to strengthen and maintain secure, functioning, and resilient critical infrastructure.
- <u>Designates</u> the Department of Homeland Security as the overall lead Federal agency for critical infrastructure security and resilience.
- <u>Identifies</u> a Federal lead for each of the 16 critical infrastructure sectors <u>Sector-Specific Agencies</u> (SSA).





Critical Infrastructure Sectors

Department of Homeland Security

- 1. Chemical
- 2. Commercial Facilities
- 3. Communications
- 4. Critical Manufacturing
- 5. Dams
- 6. Emergency Services Sector
- 7. Information Technology
- 8. Nuclear Reactors, Materials, and Waste Sector

General Services Administration

- 9. Government Facilities (Co-Lead with DHS)
 - (NEW) Elections Infrastructure Subsector

Department of Transportation

10. Transportation Systems (Co-Lead with DHS)

Department of Defense

11. Defense Industrial Base

Department of Energy

12. Energy

Department of Treasury

13. Financial Services

Department of Agriculture Department of Health and Human Services

14. Food and Agriculture

Department of Health and Human Services

15. Healthcare and Public Health

Environmental Protection Agency

16. Water and Waste Water Systems





Chemical Sector



Functional Areas of the Chemical Sector



Chemical distributors deliver more than **9 tons** of chemical sector products **every 8.4 seconds**

Typically

consume the

chemical purchased





Provide

downsized repackaging

and bulk storage

Chemical Sector

the uninterrupted production and transportation of chemicals essential for national and economic security ...

Impact on U.S. Economy

The U.S. chemical industry is responsible for more than a quarter of the U.S. GDP, supports the production of almost all commercial and household goods, and is essential to economic growth.

\$768 billion enterprise that supports more than

25% of total U.S. GDP



of U.S. goods in 2016 were manufactured using Chemical Sector products



The U.S. chemical industry is one of the world's largest chemical producers



of the world's chemicals come from the U.S.

Generation of U.S. Employment

From research and development to manufacturing, the U.S. chemical industry employs nearly 800,000 people, while creating jobs in the many other industries it touches.



The U.S. Chemical Sector directly employs nearly

800,000 employees



Every job created by the business of chemistry generates

6.8 jobs elsewhere







Chemical Sector - Regulatory

Department of Homeland Security

Cybersecurity and Infrastructure Security Agency



Chemical Facility Anti-Terrorism Standards

3,355 facilities regulated (as of 2018)

Transportation Security Administration



Rail Transportation Security Final Rule

46 key urban areas covered by secure chain-of-custody inspections

U.S. Coast Guard



Maritime Transportation Security Act of 2002

3,200 facilities of all types covered (as of 2013)

Environmental Protection Agency



800,000 regulated facilities (as of 2018)







Department of Transportation

Pipeline and Hazardous Materials Safety Administration



13,829 shippers covered by the security plan and training requirements (as of 2017)

Department of Health and Human Services

Food and Drug Administration



\$1 trillion worth of products regulated per year including drugs, cosmetics, and medical and consumer products

Department of Labor

Occupational Safety and Health Administration



700 enforcement inspections of chemical manufacturing facilities in 2017

Department of Justice

Bureau of Alcohol, Tobacco, Firearms and Explosives



9,815 licensee/permittees are subject to security rules (as of 2017)

Cybersecurity and Infrastructure Security Agency (CISA)

- CISA executes DHS's PPD-21 roles and responsibilities.
- CISA coordinates security and resilience efforts using trusted partnerships across the private and public sectors, and delivers technical assistance and assessments to federal stakeholders as well as to infrastructure owners and operators nationwide.

Mission:

CISA partners with industry and government to understand and manage risk to our Nation's critical infrastructure

Vision:

Secure and resilient infrastructure for the American people





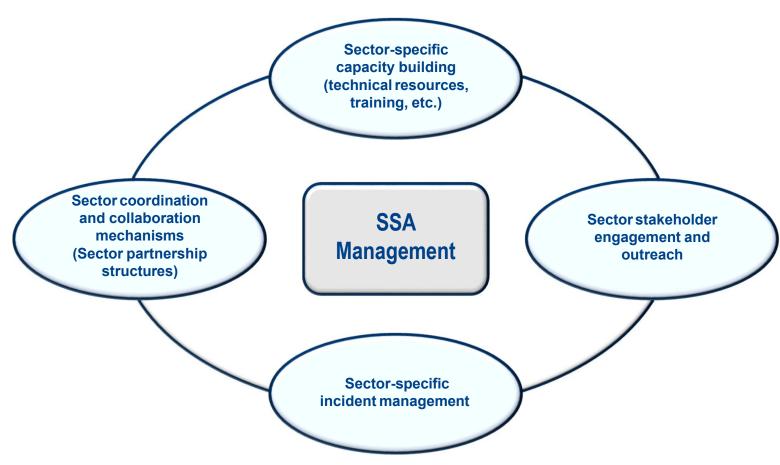
SSA Responsibilities

- Sector-Specific Agencies are the primary Federal entities responsible for coordinating critical infrastructure security and resilience efforts at the national level.
- Voluntary through Public-Private Partnerships
- Primary responsibilities:
 - Sustain effective and representative public-private partnerships.
 - Develop strategic goals to mitigate physical and cyber risks and improve resilience.
 - Support education, training, information sharing and outreach.
 - Provide support to identify vulnerabilities and mitigate incidents.
 - Develop and implement sector-specific plans in support of the National Infrastructure Protection Plan.





SSA Management



Sector Coordinating Council Government Coordinating Council





- The mission of the Council is to advance the physical and cyber security and emergency preparedness of the nation's chemical sector infrastructure.
- This mission will be accomplished through voluntary actions of the infrastructure owners and operators represented in the Council, as set forth in Presidential Policy Directive (PPD) 21 and related authorities.





- Serve as the primary liaison between the chemical sector and federal agencies, including the Department of Homeland Security (DHS), concerning chemical facility security and emergency preparedness issues;
- Facilitate sharing of information about physical and cyber threats, vulnerabilities, incidents, and potential protective measures;
- Coordinate with DHS and the Government Coordinating Council (GCC) to establish a system, outside of regulatory frameworks, to address potential threats and emergency response; and
- Represent the chemical sector in discussions with other infrastructure sectors as well as with the GCC on matters of threat, security, risk analysis, emergency preparedness and response, and other related matters.





Executive Committee

- Chair (Industry)
- Vice Chair (Industry)
- Assistant Vice Chair (UpstreamAssociation)
- Assistant Vice Chair (Downstream Association)
- Immediate Past Chair (Industry)

Members (Trade Associations or Industry)

- Agricultural Retailers Association
- American Chemistry Council
- American Coatings Association
- American Fuel & Petrochemical Manufacturers
- Council of Producers & Distributors of Agrotechnology
- Compressed Gas Association
- CropLife America
- Institute of Makers of Explosives
- International Institute of Ammonia Refrigeration
- International Liquid Terminals Association

- Louisiana Chemical Association
- National Association of Chemical Distributors
- Society of Chemical Manufacturers and Affiliates
- The Chlorine Institute
- The Fertilizer Institute





- Contact your industry association representative to inquire about various committees that you can participate in.
- Based on committee participation, inquire about attending a council meeting.



