



Pollution Prevention (P₂): The Pathway to Sustainability



- Sustainability Definition: "...meets the needs of the present without compromising the ability of future generations to meet their own needs." - Brundtland Commission, 1987
- Sustainable practices should be designed to decrease and eventually eliminate dependence on finite natural resources
- Goal: implement sustainable development plans and sustainable production methods.
 - P₂ Act of 1990-- waste management hierarchy--source reduction is the first step.

United States Environmental Protection Agency
Region 4

National P₂ Focus Areas

- Focus Areas:
 - Chemical and Manufacturing Industries
 - Building and Construction
 - Electronics
 - Hospitality
 - Municipalities and Institutions
 - Agriculture

United States Environmental Protection Agency
Region 4

Region 4 P₂ and Innovation

Buildings & Construction:

- Lifecycle Construction: examine the environmental and economic impacts and the overall sustainability of the construction process from planning to final use of the building.
- Green Permitting: Using Lean Techniques (Kaizen, Six Sigma) to help develop a green permitting program and identify incentives for developers to choose sustainable features of new developments.

Hospitality:

- Collaboration between EPA and the Convention Industry Council to develop "green" standards for venues, meeting planners, and events.
- Develop national resource guide and business case studies on green lodging for use by the hospitality industry.




United States Environmental Protection Agency
Region 4

P₂ and Innovation Tools

Carbon Assessments:

- State P₂ offices have technical expertise to help understand carbon footprints and the instruments to calculate carbon outputs.

Energy Efficiency Audits:

- State P₂ staff have been helping businesses, industries and institutions conduct energy audits and implement energy efficiency improvements.

Lean and Green:

- States work with facilities to conduct environmental assessments as part of the Lean/Kaizen event.
- <http://www.epa.gov/lean>


Compliance Assistance:

- Conduct sector based outreach and targeted technical assistance.






United States Environmental Protection Agency
Region 4

Pollution Prevention Centers



- The Pollution Prevention Resource Exchange (P₂Rx™) is a consortium of eight regional pollution prevention information centers, funded in part through grants from EPA.
 - Region 4 Center offers topic hubs, P₂ helpline, P₂ infoHouse
 - Other topics for regional centers: Hospitality, Lean Manufacturing, EMSs, Green Cleaning, Clean Marinas






United States Environmental Protection Agency
Region 4

Region 4 P₂ and Innovation

Lean Initiatives:

- Trying to build regional case studies on using lean as an effective tool to help accomplish regulatory compliance, beyond compliance objectives, and to create good government.
- Lean and Green initiatives
- Administrative Lean initiatives
- <http://www.epa.gov/lean>

United States Environmental Protection Agency
Region 4

Partnership Opportunities

- Source Reduction Assistance Grants
 - <http://www.epa.gov/p2/pubs/grants/index.htm>
- P2 Grants
 - <http://www.epa.gov/p2/pubs/grants/index.htm>
- State Innovation Grants
 - <http://www.epa.gov/innovation/stategrants/index.htm>



United States Environmental Protection Agency
Region 4

Resources

- **Northeast States Pollution Prevention Roundtable/ P2 Information Center**
Web Site: www.newmoa.org/
- **Waste Reduction Resource Center**
Web Site: www.wrrc.p2pavs.org
- **Great Lakes Regional Pollution Prevention Roundtable/P2 Information Center**
Web Site: www.glrppr.org
- **Zero Waste Network**
Web Site: www.zerowastenetwork.org/
- **Region 7 Pollution Prevention Regional Information Center (P2RIC)/ P2 Information Center**
Web Site: www.p2ric.org
- **Peaks to Prairies Center/P2 Information Center**
Web Site: www.peakstoprairies.org
- **Western Sustainability and Pollution Prevention Network (WSPPN)/ P2 Information Center**
Web Site: www.wsppn.org
- **Pacific Northwest Pollution Prevention Resource Center/ P2 Information Center**
Web Site: www.pprc.org



United States Environmental Protection Agency
Region 4