

Oregon Department of Energy

CHP Program

- Supporting CHP since 1980
- Business Energy Tax Credits (BETC)
 - 17 projects supported, both biomass and gas-fired
 - \$24,458,788 in tax credits

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- CHP Program
 - Current Activity
 - Energy Incentive Program (EIP)
 - Small-scale Energy Loan Program (SELP)
 - Statewide Resource Analysis
 - CHP barrier analysis
 - Utility program development
 - Sector action plans (food processors, forest products)

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- Energy Incentive Program (EIP) (tax credits)
 - EIP tax credit allocation is divided by project type
 - CHP projects
 - One solicitation in 2013
 - Four projects supported - two wastewater, one industrial plant, and one biofuel plant
 - A 2014 solicitation is planned, schedule and detail pending

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- State Energy Loan Program (SELP)
 - Capital source for energy and recycling projects located in Oregon
 - Program operates like an enterprise fund
 - Funding from State of Oregon bond sales
 - Long term fixed rate loans

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- SELP works within ODOE to help deliver project development assistance to stakeholders
 - Pro forma financials development
 - Business case development
 - Scoping and technical review

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- SELP and CHP Projects
 - Over \$81 million in funded projects
 - Landfill gas
 - Municipal wastewater
 - Industrial: wood products, metals, food processing

Regional CHP Programs

- U.S. DOE Northwest CHP TAP
www.northwestCHPTAP.org

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NFPA 99

6.4.1.1.7 Uses for Essential Electrical System

- **6.4.1.1.7.1** The generating equipment used shall be either reserved exclusively for such service or normally used for other purposes of peak demand control, internal voltage control, load relief for the external utility, or **cogeneration.**



NFPA 110. 5.1 Energy Sources.

- **5.1.1*** The following sources shall be permitted to be used for the emergency power supply (EPS):
- * Liquid petroleum products at atmospheric pressure as specified in the appropriate ASTM standards and as recommended by the engine manufacturer
- * Liquefied petroleum gas (liquid or vapor withdrawal) as specified in the appropriate ASTM standards and as recommended by the engine manufacturer
- * **Natural or synthetic gas**



U.S. DEPARTMENT OF ENERGY

CHP Technical Assistance Partnerships

NORTHWEST



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NEC Article 700 & 701 Emergency and Standby Fuel

(3) Dual Supplies. Prime movers shall not be solely dependent on a public utility gas system for their fuel supply or municipal water supply for their cooling systems. Means shall be provided for automatically transferring from one fuel supply to another where dual fuel supplies are used.

Exception: Where acceptable to the authority having jurisdiction, the use of other than on-site fuels shall be permitted where there is a low probability of a simultaneous failure of both the off-site fuel delivery system and power from the outside electrical utility company.



U.S. DEPARTMENT OF ENERGY

CHP Technical Assistance Partnerships

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- CHP Program contacts
 - Matt Krumenauer – 503-378-6043
 - Marty Stipe – 503-378-4926
- Energy Loan Program (SELP)
 - John Hobbs – 503-378-5048
- Energy Incentive Program (EIP)
 - Maureen Bock – 503-934-4004

web site - <http://www.oregon.gov/energy/BUSINESS/Incentives/Pages/EIP-Conservation.aspx>