

**FY 2008 EXCHANGE NETWORK GRANT PROGRAM AWARDS**  
**Office of Environmental Information**  
**U.S. Environmental Protection Agency**  
**2008**

<b>FY 2008 EXCHANGE NETWORK GRANT PROGRAM - TOTALS</b>		
Type of Recipient	Total Number of Awards	Total Amount of Awards
<b>Tribes</b>	<b>8</b>	<b>\$1,898,782</b>
<b>States</b>	<b>46</b>	<b>\$11,463,485</b>
<b>Territories</b>	<b>0</b>	<b>\$0</b>
<b>All Recipients</b>	<b>54</b>	<b>\$13,362,267</b>

**FY 2008 Exchange Network Grant Program-Recipients**

Recipient Name	Project Description	Award Amount
<b>State Grants</b>		
<p align="center"><b>Alabama</b> Department of Environmental Management</p>	Alabama Department of Environmental Management proposes to upgrade from Node 1.1 to Node 2.0 protocol and to upgrade the existing FRS and RCRA data flows for the new Node 2.0.	\$100,000
<p align="center"><b>Arkansas</b> Department of Environmental Quality</p>	Arkansas Department of Environmental Quality (ADEQ) will implement two data exchanges between ADEQ and EPA, utilizing the existing exchange network node. These exchanges include the NPDES Discharge Monitoring Report (DMR) data to ICIS-NPDES, using an ICIS-compliant data entry program, and physical and chemical water quality monitoring data from ADEQ to WQX (STORET), with an additional data conversion of some older STORET data.	\$200,000
<p align="center"><b>Arizona</b> Department of Environmental Quality</p>	Arizona Department of Environmental Quality (ADEQ) will upgrade node infrastructure including adding a new development, test and production environment. The ADEQ will implement the capabilities of the new node and upgrade all production flows as well as flows under development.	\$300,000
<p align="center"><b>California</b> Department of Toxic Substance Control</p>	California Department of Toxic Substance Control will upgrade the California Environmental Protection Agency Central Data Exchange node to Node 2.0 standards and implement a Toxic Release Inventory (TRI) dataflow.	\$300,000
<p align="center"><b>California</b> Environmental Protection Agency</p>	California Environmental Protection Agency (Cal/EPA) will use the state exchange node, the UPDS and the Pilot Facility Database to expand the capability of exchanging information from these systems. Cal/EPA will use existing XML definitions, or establish new ones, in order to use national exchange standards and to fully integrate the information gathered by state and local agencies on the over 150,000 regulated facilities in California.	\$250,000
<p align="center"><b>California</b> Department of Toxic Substance Control</p>	California Department of Toxic Substance Control (DTSC) will develop the capability to exchange data between DTSC and the exchange Network and facilitate the implementation of specific data flow to U.S. Environmental Protection Agency (EPA) and Cal/EPA of DTSC's EI&PM. It will support DTSC's development , tracking, reporting, evaluation, and revision/augmentation of its IE&PM.	\$200,000

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<b>Colorado</b> Department of Public Health and Environment	The funds from the grant will develop the infrastructure and tools needed to support Colorado's active participation in data exchanges via the EN. Funds will also be used to upgrade the node to send and receive SARA Tier II data, track and publish departmental records to the web, and report regulatory data to Environmental Protection Agency databases.	\$165,000
<b>Delaware</b> Department of Natural Resource and Environmental Control	The funding for this project is to upgrade Node 1.0 to 2.0 and reconfigure existing flows (eBeaches, NEI, PCS/ICIS for NPDES, RCRAInfo, AQS, SDWIS and SRS) to the upgraded node.	\$90,000
<b>Georgia</b> Department of Natural Resources	Funds will be used to share (implement TRI flow) TRI data through established network node and upgrade current node to the node 2.0 standard.	\$100,000
<b>Hawaii</b> Department of Health	The goal of Hawaii's Department of Health is to implement XML data flow in AQS to improve the current real-time data information page.	\$195,000
<b>Illinois</b> Department of Natural Resources	The Illinois Department of Natural Resources (IDNR) intends to implement data flows to the National UIC Database for states with current electronic ability to track necessary data. IDNR will assist states in developing TPA's, build upon existing .NET data tools used to validate and package UIC Data Flow XML payload to the UIC CDX servers.	\$350,000
<b>Iowa</b> Department of Natural Resources	Iowa's Department of Natural Resources funding will be used to implement a data flow to the Environmental Protection Agency for Water Quality Assessment related to CWA 305(b)/303(d) Integrated Report, upgrade FRS data flow, and improve related infrastructure and GIS locations.	\$300,000
<b>Indiana</b> Department of Environmental Management	Indiana Department of Environmental Management (IDEM) funding will be used for development of AFS-CAA data flow and upgrade to Node 2.0 specs. Current and proposed EN web services will be incorporated into newly available State web-service vehicles to make targeted data available to wider audiences.	\$200,000

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<b>Recipient Name</b>	<b>Project Description</b>	<b>Award Amount</b>
<b>Kansas</b> Department of Health and Environment	Kansas Department of Health and Environment (DHE) intends to upgrade to Node 2.0 and FRS data flow from v2.3 to 3.0 and will develop and implement an ICIS-NPDES compatible data flow using CDX and the XML schemas. Other areas of interest include data flows of the FRS and GIS.	\$239,000
<b>Maryland</b> Department of the Environment	Maryland's Department of the Environment (MDE) will utilize the existing WQX network being developed for drinking water, ambient surface water, and other special studies to include data being generated by DNR for the Chesapeake Bay Program, water quality data being generated by DNR's Fisheries Services, surface and well data being generated by other MDE units (UST and landfills) and others. The project would expand the scope of data exchange with EPA and add capabilities with EPA Chesapeake Bay Program.	\$382,535
<b>Massachusetts</b> Department of Environmental Protection	Massachusetts Department of Environmental Protection will use funds for the development of a new data TRI exchange, upgrade existing node to the new exchange network technologies node 2.0, and migrate 8 data flows already in production to the new technology.	\$300,000
<b>Michigan</b> Department of Environmental Quality	Michigan's Department of Environmental Quality (MDEQ) proposes to augment the upgrade of Michigan's node from 1.1 to 2.0 by remapping existing MDEQ Exchange Network data flows from the present to the to-be-developed Exchange Network 2.0	\$130,000
<b>Michigan</b> Department of Environmental Quality	Michigan's Department of Environmental Quality (DEM) plans to build on Michigan's current Exchange Network node infrastructure to expand the XML-based data flow capability to include the ICIS-NPDES data flow	\$300,000
<b>Minnesota</b> Land Management Information Center	Minnesota's Land Management Information Center (LMIC) intends to develop a sustainable process for updating Minnesota's high-resolution National Hydrography Dataset (NHD) by investigating and recommending changes to existing data management process used by the state.	\$300,000
<b>Minnesota</b> Pollution Control Agency	Minnesota's Pollution Control Agency (MPCA) goals are to have improved integration and exchange of Minnesota's water quality data. MPCA will develop a water quality data management system that will allow the transition from STORET to a new local database	\$192,694
<b>Missouri</b> Department of Natural Resources	The funded goal of Missouri's DNR is to implement a dataflow from Missouri's re-engineered NPDES data base to the ICIS-NPDES via the EN.	\$300,000

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<p align="center"><b>Montana</b> Department of Environmental Quality</p>	<p>The goal of Montana's Department of Environmental Quality grant is to upgrade EN node 1.1 to Node 2.0, upgrade existing data schemas from node 1.1 to node 2.0 and support deployment of the WQX local database and XML data loader, and develop a bi-directional WQX data flow exchange. Goals also include development of the infrastructure and implementation of standards necessary for the exchange of Geospatial Data utilizing the EN node infrastructure. The grant will also support the ongoing effort to reduce the number of data entry errors through the implementation of EDSC-approved data quality standards across the enterprise.</p>	<p align="center">\$299,897</p>
<p align="center"><b>Nebraska</b> Department of Environmental Quality</p>	<p>With no new data flow in development, Nebraska's Department of Environmental Quality funds will contribute to full implementation of node 2.0 and conversion of all existing exchanges from node 1.1 to node 2.0</p>	<p align="center">\$45,000</p>
<p align="center"><b>Nebraska</b> Department of Environmental Quality</p>	<p>Nebraska's Department of Environmental Quality (NDEQ) plans to develop two new exchanges, Registered Tanks (UST and AST) and Agricultural Chemicals. Implementation of the node 2.0 requirements, upgrade to the facility 3.0 schema requirements, and development of a more robust administrative function for all the application users are also a goals of the NDEQ with the funding.</p>	<p align="center">\$330,000</p>
<p align="center"><b>Nevada</b> Division of Environmental Protection</p>	<p>Nevada's Division of Environmental Protection plans to use the funds to upgrade the State node to meet Node 2.0 specifications and develop a batch flow of State NPDES permits data to ICIS-NPDES, building upon previous work.</p>	<p align="center">\$300,000</p>
<p align="center"><b>New Hampshire</b> Department of Environmental Services</p>	<p>New Hampshire's Department of Environmental Services plans to build two open source exchange network Node 2.0 implementations for the purpose of sharing with network partners. .</p>	<p align="center">\$500,000</p>
<p align="center"><b>New Hampshire</b> Department of Environmental Services</p>	<p>New Hampshire's Departmental of Environmental Services will utilize funds to upgrade Node and data flows to Node 2.0 and Exchange Network protocol v 2.0.</p>	<p align="center">\$260,254</p>
<p align="center"><b>New Jersey</b> Department of Environmental Protection</p>	<p>The project will improve the quality of air emission inventory data, for stationary sources, that is electronically collected from regulated facilities. New Jersey Department of Environmental Protection (NJDEP) will revise current NEI flow to CDX to allow the state to publish their data on the Exchange Network Discovery Service based on the new NEI schema and flow configuration document that will be available in 2008.</p>	<p align="center">\$140,000</p>

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<b>Recipient Name</b>	<b>Project Description</b>	<b>Award Amount</b>
<b>New Jersey</b> Department of Environmental Protection	New Jersey's Department of Environmental Protection plans to use multi-state/tribal, multi-flow data to facilitate making better environmental decisions. This will be published through the exchange network shared tools ENDS and browser.	\$240,000
<b>New York</b> Department of Environment and Natural Resources	Proposed funds will be used to upgrade the New York Department of Environmental Conservation's current node infrastructure and data flows from version 1.1 to version 2.0 of the exchange network specs. to ensure continued interoperability with the exchange network. A new node compliant with 2.0 specs., will be developed and implemented at the Department. Existing data flows to the Environmental Protection Agency's Facility Registry System, National Emissions Inventory System, and Air Quality System will be upgraded and implemented to meet the new 2.0 specifications.	\$100,000
<b>North Carolina</b> Department of Environment and Natural Resources	North Carolina's Department of Environment and Natural Resources proposes to expand the water quality wetland permit tracking system, create GIS-linkages to manage and analyze wetland and stream spatial data as well as other watershed-based data as they related to wetland permitting with funds received from the grant.	\$281,208
<b>North Dakota</b> Department of Health	North Dakota's Department of Health plans to update their database systems to enable better access to data, to share data with EPA more easily using the network node, and to allow the section to receive required reporting data in electronic format. North Dakota's Department of Health will update the node and current data flows to node 2.0; adding one new data flow (UIC); adding the ability for electronic reporting of data for Division of Air Quality semi-annual and annual reports; and updating the UST database to allow remote access to data for inspectors.	\$300,000
<b>Ohio</b> Environmental Protection Agency	Ohio's Environmental Protection Agency (EPA) application permits development and publishing of Institutional Control (IC) attributes data and IC polygons. (Web based application publicly available)	\$300,000
<b>Oklahoma</b> Department of Agriculture, Food, and Forestry	Oklahoma's Department of Agriculture, Food, and Forestry plans to upgrade their exchange network node to node 2.0, complete data viewer, develop a water quality monitoring database, and modernize the Permit Compliance System for combined amount feeding operations to ICIS-NPDES. The upgraded node 2.0 will be utilized to flow water monitoring data to WQX and CAFO discharge permit data to the exchange network utilizing XML file format.	\$300,000
<b>Oklahoma</b> Department of Environmental Quality	Oklahoma's Department of Environmental Quality (ODEQ) will use grant funds to rebuild internal mechanism for managing the data that will be subsequently flowed to RCRAInfo via the CDX. ODEQ will also configure and implement a new exchange network node 2.0, provided that something analogous to the Windsor node is made available. ODEQ will also re-tune and enhance existing flows, along with adding the previously mentioned RCRAInfo flow; and ensure that all are re-mapped to the node 2.0 implementation.	\$295,000

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<b>Recipient Name</b>	<b>Project Description</b>	<b>Award Amount</b>
<b>Oregon</b> Department of Environmental Quality	Oregon's Department of Environmental Quality will utilize funds to enhance the Pacific NW WQX including creation of an on-the-fly online atlas of Oregon lakes, implement node 2.0 and redevelop 8 data flows, improve infrastructure and continue mentoring and advisory services to exchange network partners.	\$214,419
<b>Pennsylvania</b> Department of Environmental Protection	Pennsylvania's Department of Environmental Protection will upgrade the hardware and software from the current 1.1 infrastructure to the newly released Node 2.0 specifications, upgrade its FRS and WQX flows to the Node 2.0 specifications and collaborate with Dept of Revenue utilizing NEIM schema (person to company) in order to pilot an effort to develop a Commonwealth of Pennsylvania Exchange Protocol, which will homogenize the NEIEN and NIEM development lifecycles and deliverables for immediate use in the Commonwealth by additional agencies such as Justice, PA State Police and the Court System.	\$274,418
<b>South Carolina</b> Department of Health and Environmental Control	South Carolina's Department of Health and Environmental Control will use funds to upgrade their network node to version 2.0, to continue to improve the overall data quality efforts in support of node flows, and to either continue, or finalize, development of five additional node flows. Flows include WQX, Area 2-ICIS-NPDES, SDWIS, drinking water inspection and hazardous waste reporting data flows.	\$300,000
<b>South Dakota</b> Department of Environment and Natural Resources	South Dakota's Department of Environment and Natural Resources plan to use funds to enhance water quality/STORET database, upgrade exchange network node to a reliable configuration and implement WQX dataflow, and develop one data exchange - WQX.	\$236,282
<b>Texas</b> Commission on Environmental Quality	Texas' Commission on Environmental Quality will upgrade to node 2.0 specs., and establish data flows for NEI.	\$225,000
<b>Utah</b> Department of Environmental Quality	Utah's Department of Environmental Quality (UDEQ) will use an approved data standard to link previously disconnected data assets. UDEQ will also commence development of node 2.0 and convert current flows to node 2.0 specs. UDEQ will then commence flowing additional environmental data from local Utah environmental databases, through the Utah node to internal programs and the Environmental Protection Agency.	\$296,675
<b>Virginia</b> Department of Environmental Quality	Virginia's Department of Environmental Quality will implement exchange of water quality data. The data to be shared are ambient water quality and related environmental monitoring data.	\$132,571
<b>Washington</b> Recreation and Conservation Office	Washington's Recreations and Conservation Office will create a collaborative environmental data exchange network for Puget Sound. Two data exchanges with multiple nodes will also be developed (Juvenile Salmon Migrant and Restoration-Protection Project).	\$499,456

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<b>Recipient Name</b>	<b>Project Description</b>	<b>Award Amount</b>
<b>West Virginia</b> Department of Environmental Protection	West Virginia's Department of Environmental Protection (WVDEP) will upgrade to node 2.0.	\$114,346
<b>Wisconsin</b> Department of Natural Resources	Funding will allow Wisconsin's Department of Natural Resources to upgrade node from 1.1 to v2.0 using one of the Reference Implementations. A web based asbestos NESHAP notification system to leverage re-engineered support system for Air permitting will be developed. Existing legacy system for direct exchange of RCRA handler, permitting, financial assurance, and compliance monitoring and enforcement data will be updated. A new innovative system for industrial by-product beneficial use tracking will be developed.	\$293,280
<b>Wyoming</b> Department of Environmental Quality	Funding for Wyoming's Department of Environmental Quality will be used to: upgrade the network node to version 2.0; develop a data exchange with Wyoming Oil and Gas Conservation Commission to provide current emission inventory data; and develop a national emissions inventory data flow for submittal of the updated emissions inventory data to Environmental Protection Agency.	\$291,450
	46 Total States	\$11,463,485
<b>Tribes</b>		
<b>Alaska</b> <b>Alaska Inter-Tribal Council</b>	The Alaskan Inter-Tribal Council plans to continue the development of four data exchanges, and a subsistence data standard. It will continue to modularize subsistence resource data via peer-to-peer information collaboration.	\$300,000
<b>Arizona</b> <b>Hualapai Tribe</b>	The Hualapai Tribe of Arizona (Tribe) will use funds to improve the GIS capabilities and the integration of geospatial datasets, including wetlands and biodiversity data, with the existing HDNR environmental database. It will also incorporate other legacy datasets, as well as ongoing monitoring data, into the database to allow for a more holistic approach to environmental data analysis and the streaming of additional data to the network. Funds will be used for the standardizing water quality data that the Tribe collects at more than 40 springs to ensure compliance with existing EPA data standards and establishment of a new data flow from the Tribe to WQX.	\$286,079



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Recipient Name	Project Description	Award Amount
<p align="center"><b>Arizona Navajo Nation</b></p>	<p>The Navajo Nation of Arizona will upgrade Node from 1.1 to Node 2.0 specification. They will develop and implement the node-to-node data exchange systems for WQX and Source Water Protection along with a web-based training module to train NNEPA staff with respect to data collection, data submission, and periodic data submission methodology for these data flows. The Navajo Nation will perform the only "preliminary data preparation plan" for AQS, TRIS and a non-regulatory data flows for document review and tracking.</p>	<p align="center">\$115,000</p>
<p align="center"><b>Arizona Salt River Pima-Maricopa Indian Community</b></p>	<p>The Salt River Pima-Maricopa Indian Community (SRPMIC) of Arizona will use funds for the development and implementation of WQX node-to-node data exchange system. There are plans to upgrade existing node client from the 1.1 specification to node 2.0. Plans include the Salt River Pima-Maricopa Indian Community to upgrade the network security infrastructure in order to send network exchanges through SRPMIC node. Plans also include development of a web-based training module to train the SRPMIC IT and the environmental personnel on the exchange network, data collection methodology for the WQX data flow, and the periodic submission of the WQX data through the SRPMIC node.</p>	<p align="center">\$241,648</p>
<p align="center"><b>California Yurok Tribe</b></p>	<p>The Yurok Tribe of California will develop an internal data management system designed to communicate with existing EPA data warehouses utilizing improved node standards, a comprehensive Quality Management Program that will serve as a guide to other tribes; an interface to enter, grade, and exchange archival data, development of a web interface to query available validated data, and a directory and web interface to exchange geospatial data. The Yurok Tribe will also assist other Tribes in utilizing the developed database to manage their own internal data and transmit that data to EPA using the established and tested interfaces; sharing exchange successes in improved business processes with other Indian Nations, sharing the development Quality Management Plan with Tribes nationally, and participation in the Network Operations Board.</p>	<p align="center">\$175,000</p>
<p align="center"><b>New Mexico Northern Indian Pueblo Council</b></p>	<p>The Eight Northern Indian Pueblo Council of New Mexico will provide the capacity to research, identify, and analyze data gathering, storing, and sharing gaps and needs and develop infrastructure and administrative capacity for data management and analysis. Goals also include identifying the process involved in developing a data sharing node and for developing a tool for educating indigenous communities and tribal organizations about the many applications and capabilities of Geospatial data technology and promoting successful use of GIS for effective management of native lands, environmental health, and cultural resource values. This will also be used for reporting geo-spatial and temporal data in relationship to environmental management requirements, and developing better networking capabilities for participating members. The key training and mentoring needs of participating partners and ensuring project personnel are up to date on all areas of developing, implementing, and maintaining an EN node will be addressed.</p>	<p align="center">\$267,585</p>

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Recipient Name	Project Description	Award Amount
Oklahoma Nation	Caddo The Caddo Nation of Oklahoma plans to implement a data node capable of XML-formatted data flows reconciled and compatible with EPA's FRS and geospatial information of Open Dump sites integrated with the RCRAInfo database. The Caddo Nation also plans to develop the FRS, RCRAInfo, and Open Dump data exchanges.	\$289,811
Oklahoma Kaw Nation	The Kaw Nation of Oklahoma intends to establish a network and exchange data to federal, state and tribal entities. The project will establish and set-up the Network node according to specifications and requirements and define the database elements to integrate water quality into the node for information exchange.	\$223,659
	8 Total Tribes	\$1,898,782