## **Draft Budget Proposal for Energy Problem-Solving Project in Duluth**

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## Overview:

We have been collaborating on a pilot project for engaging Duluth students in Energy Problem-Solving. This collaboration offers a challenge, tools and targets for students in 5 secondary schools of ISD 709.

Students will be challenged to help their community improve the energy efficiency of the community by performing energy experiments to reduce wasted energy at home, school, work, faith or with friends (leisure). The challenge and tools will help develop their STEM skills while focusing on character priorities which support their community. This project may help Duluth compete in the Georgetown University Energy Prize as the only MN city qualified to compete with 50 US cities.

## **Collaboration of local Partners:**

There are a number of core partners in this energy saving project. The city of Duluth and ISD 709 are the team leaders, but the team has also benefited from the energy expertise at Ecolibrium, UMD's Engineering Department, CERTS and YES. Together these community partners will help students reduce wasted energy, save money, reduce emissions, build new STEM skills and focus on character priorities for the city. **Phase I** funding builds a project in Energy Problem-Solving that helps students and community partners reduce wasted energy and share their success with other schools and partners in MN. Interested community partners include the Minnesota Youth Energy Summit (YES) team which supports Minnesota students with tools and teamwork so they can save funds, fuels and emissions for their school and community. Projects in Phase I will use applied problem-solving to reduce wasted fuels, dollars and emissions. Success will be measured by data generated for those three items. **Phase II** will use best results to challenge and engage additional students in other cities, states and countries. The Science Museum of Minnesota may assist with outreach for phase II.

## **Draft Budget Variables:**

5 teacher-coaches for Energy Problem-Solving teams in 5 709 Schools (\$1000/school) 5,000.	\$
5 school teams registered as MN YES teams (\$400/team)	2,000.
Project tools, materials and resources for the team projects (5x \$100) 500.	
Project costs for PACTv productions and broadcasts (studio & staff)	300.
Project Rewards for Civic Recognition Certificates (printing)	200.
Phase II Outreach to other Schools, Cities, States, Nations (5x \$100)	500.
Project total	\$8,500.

**Preferred Funding Partners: Northland Foundation & NMSDP** 

Northern Minnesota Sustainable Development Partnership \$4,250.