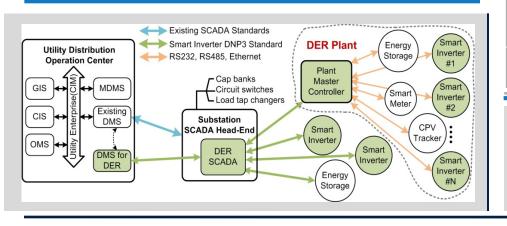
### **TECHNOLOGY SUMMARY**

The proposed project will develop, implement, and demonstrate smart-grid ready inverters with grid support functionality and required utility communication links to capture the full value of distributed photovoltaic (PV). Key objectives are to implement advanced grid-supportive functions into inverters and to establish remote management and configurability of these functions from distribution operation center—together they will enable utility companies to better utilize these grid assets.



#### **KEY PERSONNEL**

- Michael Zuercher-Martinson, Solectria Renewables
- Haukur Asgeirsson, Detroit Edison
- Fouad Dagher, National Grid
- Michael Lamb, Xcel Energy

## PROGRAM SUMMARY

Period of performance: 36 months

DOE funds: \$ 4.4M Cost-share: \$ 2.7M Total budget: \$ 7.1M

# **Key Milestones & Deliverables**

Year	<ul> <li>Smart-grid ready inverters, DER plant master</li> </ul>
1	controller and distribution management system

Year • Laboratory demonstration of DER DMS connected smart inverters; field installation and commissioning

Year • Utility scale system demonstration and Impact analysis

## **Technology Impact**

Advancement of PV system capabilities, communication systems and open standards, operations center visibility and management, and optimized coordination of smart PV inverters with existing distribution control devices.

