Illinois Clean Energy
community foundation

Chicago Metropolitan Agency for Planning

Foundation Grants for Geothermal & Other Green Energy Projects

February 26, 2010

Illinois Clean Energy Community Foundation

- **Independent, private charitable organization**
- **Created in 1999 with an endowment of $225 Million from the Commonwealth Edison Company.**
- **Grants available to local governments and 501c3 charitable organizations within Illinois.**
- **Mission to invest in clean energy development and land preservation efforts.**
- **Mission is supported by programs/projects to:**
  - Improve energy efficiency
  - Develop renewable energy resources
  - Preserve natural areas & wildlife habitats

Distribution of Foundation Grants by Program (thru 2009)

Funding

Energy Efficiency

$99,104,388

Renewable Energy

$20,681,828

Natural Areas

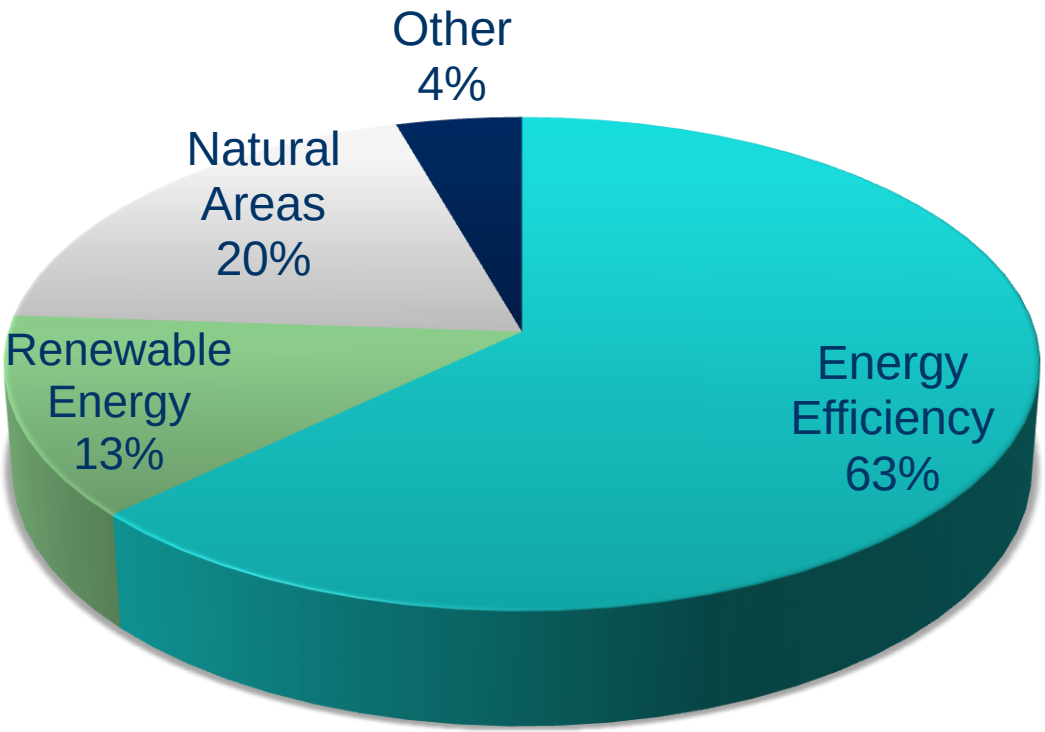
$30,661,633

Other

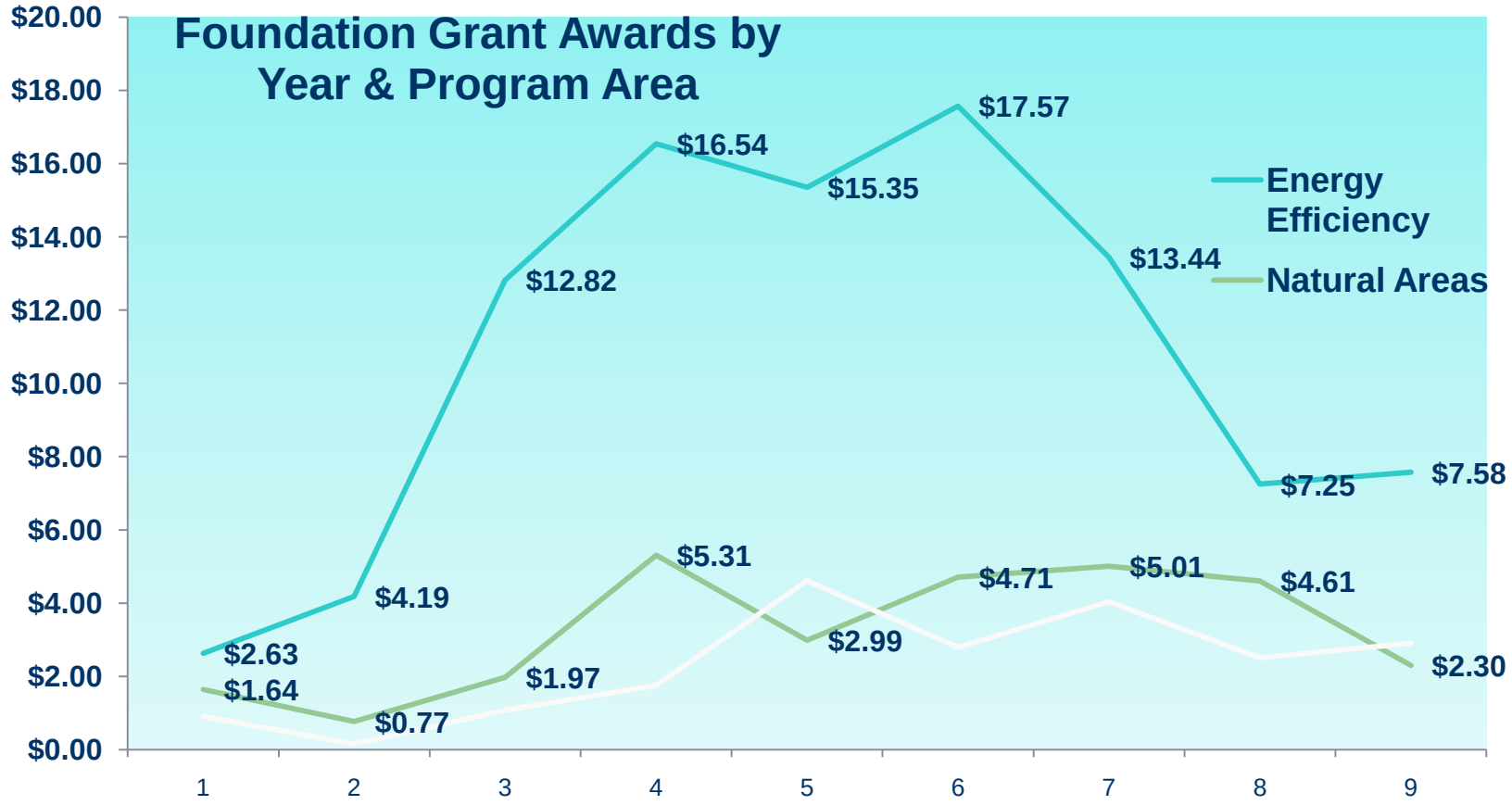
$7,000,000

Total

$ 157,447,849

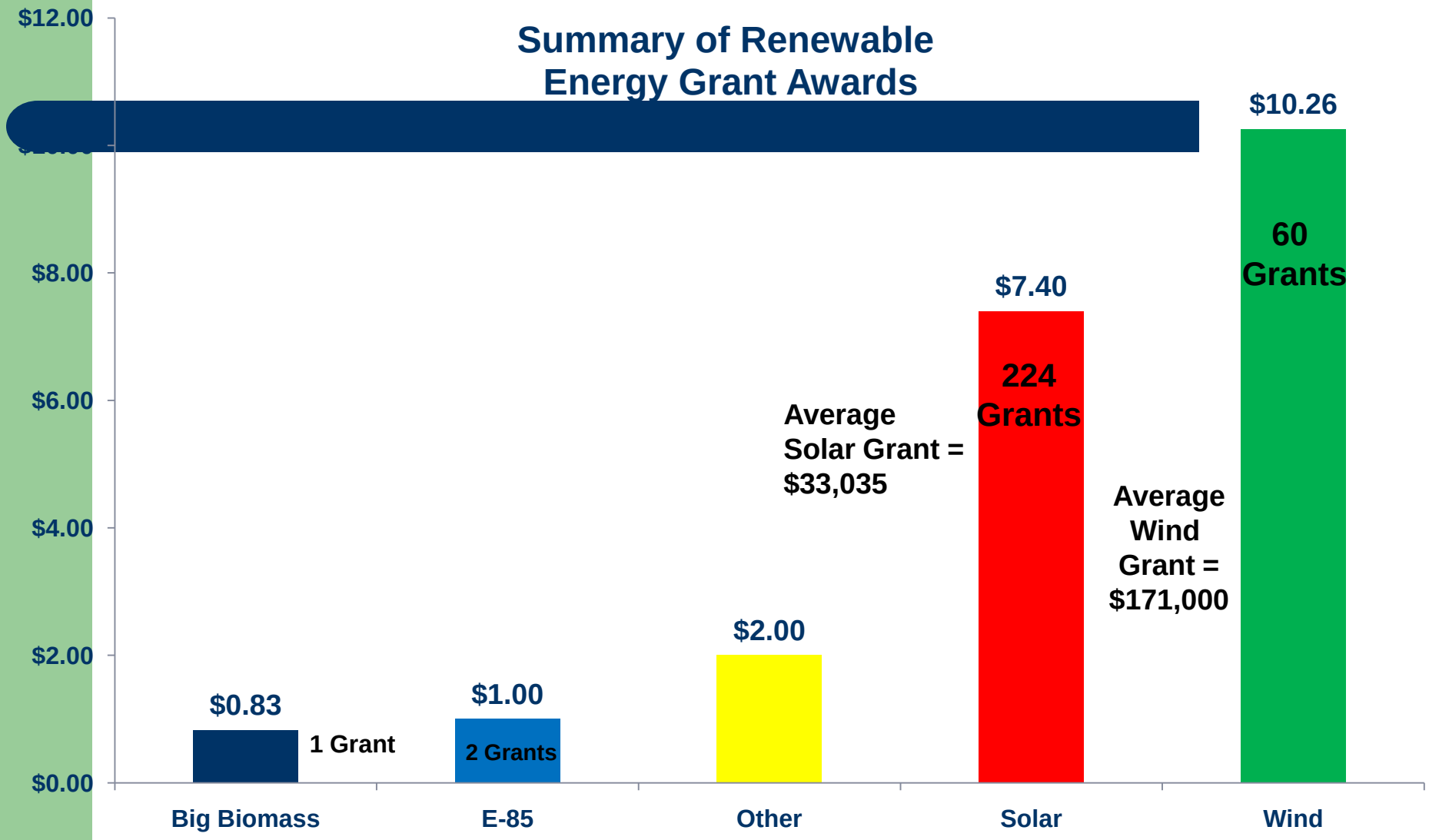


Illinois Clean Energy
community foundation



Illinois Clean Energy
community foundation

Summary of Renewable Energy Grant Awards



Illinois Clean Energy
community foundation

Energy Efficiency Funding Opportunities

- **Green Buildings - Design & Commissioning Program**
  - Up to $150,000 for incremental design and commissioning costs
- **Innovative energy saving equipment/systems**
  - Geothermal Heat Pumps
  - Other HVAC systems
- **Lighting Upgrades (Targeted Programs)**
  - Public Safety Facilities, Historic Courthouses, New Programs (?)
- **Building Energy Code Program**
  - For local energy efficiency building code adoption and implementation

Illinois Clean Energy
community foundation

Energy Efficiency Impacts

- Over **3,700** public facilities upgraded to date
- Over **105 MEGAWATTS** of electricity saved
  - Power savings equivalent to
    - Electrical demand of **46,000** Illinois households
    - Taking **31,000** cars off the road
    - Planting over **7.2 million** trees

Illinois Clean Energy
community foundation

Renewable Energy Funding Opportunities

- **Solar**
  - Photovoltaic
    - Traditional rack-mounted or building-integrated ($4/watt)
    - K-12 Solar Schools Program-Educational ($10,000)
  - Solar Thermal ($/ft or $/%)
    - Water heating systems for buildings
- **Community and Small Scale Wind**
  - Wind Feasibility Studies
  - Hardware Funding
- **Biomass**
  - Must be 100% biomass
- **Other**
  - Innovative Technologies, Conferences, Market Development, Etc.

Illinois Clean Energy
community foundation

Renewable Energy Impacts

- **10 MW of new community scale wind generation**
  - 5 projects in operation
    - Bureau Valley High School – 660kW
    - Illinois Rural Electric Cooperative -- 1.65 MW
    - Erie School District – 1.2 MW
    - Sherrard School District – 600kW
    - Illinois Rural Electric Convenience Cooperative – 900kW
- **Over 1 MW of Solar Photovoltaic Electric Generating Capacity**
  - Includes over 140 solar schools
- 31 **Solar Thermal** grants (over 50 installations)
- 12 **Biomass** grants

Illinois Clean Energy
community foundation

Deadlines

- **Energy Efficiency**
  - Lighting: March 24, 2010
  - Green Buildings Design and Commissioning: Rolling Review
  - Building Codes: Rolling Review
  - All Others: Competitive Cycle (January 20 or July 20)
- **Renewables**
  - Solar Schools: March 2010
  - All Others: Competitive Cycle (January 20 or July 20)
- **Natural Areas**
  - Competitive Cycle (January 20 or July 20)

Illinois Clean Energy
community foundation

Geothermal HVAC

- Total funding = $8.3 Million
- 87 grants for 145 installations across Illinois
- Grants in 57 Illinois Counties
- Size range from 10 tons to 2400 tons
- Foundation grants = 1/3 of incremental system cost capped at $90,000
- Special Partnership with Association of Illinois Electric Cooperatives (grants capped at $50,000)

Geothermal (continued)

- **System Costs**
  - 88% system cost increase above conventional
  - $4,403/ton average
  - $33/square foot average
  - Payback range from 4.5 to 25 years
  - Wide variation in costs across Illinois
  - Majority of savings related to natural gas
- **Increasing popularity in LEED Projects**
- **Hugely popular in K-12 School retrofit & new construction**

Geothermal (continued)

- Funding
  - Competitive Grant Cycles (January & July)
  - 2 page application form
  - Program Selection Criteria
    - 10 ton/5,000 square foot minimum
    - Facility must operate 40 hours/week minimum
    - Cost-effectiveness
    - Grants limited to 1 per eligible grantee (exceptions made to organizations with regional or statewide reach)
    - Limits on grants per “common purpose” building

Contact Information

Bob Romo

Senior Program Officer

Illinois Clean Energy Community Foundation

2 North LaSalle

Suite 1140

Chicago, Illinois 60602

bromo@illinoiscleanenergy.org