Committee on Grounds & Buildings
May 13, 2008
• **144,000 gsf/83,500 asf (0.58)**

• **Lab and office space for EBI and Nanostructures Programs**

• **Sustainable design – minimum LEED® Silver**

• **Proposed project budget: $198,246,000**

• **Construction: July 2008 – Oct 2011**

• **Construction manager/General contractor delivery**
Lawrence Hall of Science
Memorial Stadium
Helios Energy Research Facility: Project Site
Plan - Level 1

Helios Energy Research Facility
Berkeley and LBNL
Helios Energy Research Facility
Berkeley and LBNL
Day lighting

Helios Energy Research Facility
Berkeley and LBNL
Helios Energy Research Facility
Berkeley and LBNL

- Metal panel
- Accent Metal
- Concrete, architectural finish

Materials
Sustainability

• LEED® Silver minimum

• Energy efficiency is key
  - At least 35% less energy than ASHREA 90.1
  - Leverage the Berkeley climate
  - System right-sizing
  - Day lighting and sun shading
  - Efficient lab equipment
  - Green roofs

• Sustainable operations
  - Recycling, transportation, water conservation
sub-1 building construction

- commodity costs
- construction duration
- partially mitigated by cost-reduction steps

$121.3 M

$129.4 M

+8.1 M
Helios Energy Research Facility
Berkeley and LBNL

sub-0, 2, 4: site & utilities

$128.9 M

$153.8 M

+16.7 M

+8.1 M

- soil remediation
- access road construction
- utilities: sewer capacity
The image shows a bar graph comparing two budget figures:

- **$154.2 M**: Soft costs at Helios Energy Research Facility, Berkeley and LBNL, with additional costs of:
  - +$8.1 M
  - +$16.7 M
  - +$6.4 M

- **$186.2 M**: Same facility, with the above additional costs.

Additional costs mentioned in the graph include:
- Construction duration
- Testing requirements
- Environmental analysis
- Contingency adjustment

The text at the bottom reads: "Helios Energy Research Facility, Berkeley and LBNL."
interest during construction

$159.4 M

$198.2 M

+7.6 M

+6.4 M

+16.7 M

+8.1 M
• Within Berkeley Lab’s 1987 and 2006 LRDP
• Focused, stand alone EIR prepared
• Completed 74 day public review
• Consultation with City of Berkeley
• Received and responded to 32 comment letters
• Alternative road alignment to minimize tree removal
• Significant and unavoidable impacts in:
  • aesthetics
  • air quality
  • transportation