

SEATTLE PEER REVIEW WORKSHOP SUMMARY

ADVANCED ENERGY EFFICIENT BUILDING TECHNOLOGIES FOR HIGH PERFORMANCE HOSPITALS

University of Washington | College of Built Environments | Integrated Design Lab

PROJECT TEAM

Integrated Design Lab, University of Washington
SOLARC Architecture & Engineering
NBBJ Architects
TBD Consultants

PEER REVIEW WORKSHOP ONE

Peer review working sessions, through the dedicated participation and expertise of local and regional industry experts, play a key role in producing research that is grounded in practice and experience. Leaders in healthcare design, construction, and operation were asked to review study materials and come prepared to communicate their perspective on the strengths, weaknesses, and areas for further research. This is a brief summary of the first peer review workshop held in winter/spring 2011.

PARTICIPANTS IN SEATTLE

AEI, Candela, CDi Engineers, Coffman Engineering, Collins Woerman, Corporate Realty Design & Management Institute, Fred Hutchinson Cancer Research Center, HOK, KMD Architects, Legacy Health, Mahlum, Mazzetti Nash Lipsey Burch, NAC Architecture, Northwest Energy Efficiency Alliance, Notkin Engineering, Perkins+Will, Providence Health & Services, Putnam Price Group, Seattle Children's Hospital, Seattle City Light, Skanska, Swedish Hospital & Medical Center, Stantec, University of Washington Department of Architecture, Washington State Department of Health

FOR MORE INFORMATION

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KEY ISSUES FROM SEATTLE DISCUSSION

ARCHITECTURAL

- Project Delivery: Create an integrated team from the on-set. Look at life-cycle cost as it relates to the construction and operational cost over time.
- Create opportunities for ongoing commissioning and training.
- How is daylighting, shading and electric lighting impacted between the block or perforated concepts?
- Is there a difference in loss and capture of thermal mass, and how is the patient impacted at the thermal comfort level?
- Separate the MOB from the acute care hospital in the models.

MECHANICAL

- Integrated Design: More team commitment required to pursue aggressive goals related to energy. Market goals may not be achievable without the assistance of advocates with the ability to push these goals.
- Performance based goals and projects: Establish who is accountable for various components. What are different motivations across disciplines?
- A focus on operations including the importance of training for facilities managers or outside experts to maximize energy efficient performance as well as retro-commissioning new and operational buildings.
- More data is needed to enable changes that impact energy use. For example, more research and funding is needed to back the reduction of airflow rates.

