



Illinois Accelerator Research Center (IARC)

Community Advisory Board 03/23/23

Illinois Accelerator Research Center

Agenda

- Background
- Architectural elements/Sustainability/LEED Gold

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To speed technology transfer, Fermilab created the Illinois Accelerator Research Center, a cutting-edge facility that unites scientists and engineers from Fermilab, Argonne, and Illinois universities with industrial partners.



Illinois Accelerator Research Center

- Commissioned to be designed by Ross Barney Architects in 2010.
- Construction completed in 2013.

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- **Certified as LEED Gold in 2015**
- Reflective “white” roof on the upper roof to mitigate the heat island effect.
- 7800 square feet of vegetative “green” roof on the lower roof to reduce storm water impacts and provide outdoor space for the building occupants.

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- 79% of the regularly occupied spaces are daylit.
- 100% of the regularly occupied spaces have access to view.
- Increased ventilation effectiveness to provide healthier breathing environment
- Underfloor air distribution with overhead air return providing a healthy flow of clean air for occupants
- Constructed using low VOC materials.

A photograph of a modern, brightly lit hallway. The ceiling is made of horizontal wood panels with recessed circular lights. The walls are a mix of wood paneling and light-colored panels. Large windows on the right side offer a view of the outdoors. The floor is a polished, light-colored material that reflects the overhead lights.

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- Over 96% of construction waste materials were recycled and diverted from landfills.
- Over 37% of materials on the project had recycled content.
- Over 50% of materials on the project are from local and regional sources
- 100% of wood on the project are from certified sources.



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- Constructed on a previously developed site taking advantage of existing infrastructure with minimal impact to nearby natural environment.
- Integrated with the existing bicycle and pedestrian path serving the Fermilab campus.
- 199,610 square feet, or 73%, of the project site is landscaped as protected or restored open space.
- Constructed with showers for occupant use and 20 bicycle racks to reduce automobile use.
- Landscaped with native and adapted plants .



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Thank you for letting me share IARC
with you.