

Building Green at a Large Scale



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Culture drives decisions



Focus on the future



“If we drove the way we typically plan, we would spend most of our time looking into our rear view mirrors and we would all crash our cars.”

Attributed to Marshall McLuen

Kaiser Permanente one of the nation's largest nonprofit health plans

8.3 Million Members

9 States and Washington DC

60 Million Occupied Square Feet

planned facility growth






2004-2013

- 23 new hospitals, replacements or significant additions
- New medical office buildings to support hospitals projects
- Additional central utility plants, parking garages, call centers, administrative buildings, and regional labs
- Total capital program exceeds \$20 billion over 10 years



Integrated model

Of care

-  Kaiser Foundation Health Plan
-  Kaiser Foundation Hospitals
-  Permanente Medical Groups



environmental stewardship council



- Green Buildings
- Environmentally responsible purchasing
- Sustainable operations




Vision Statement:

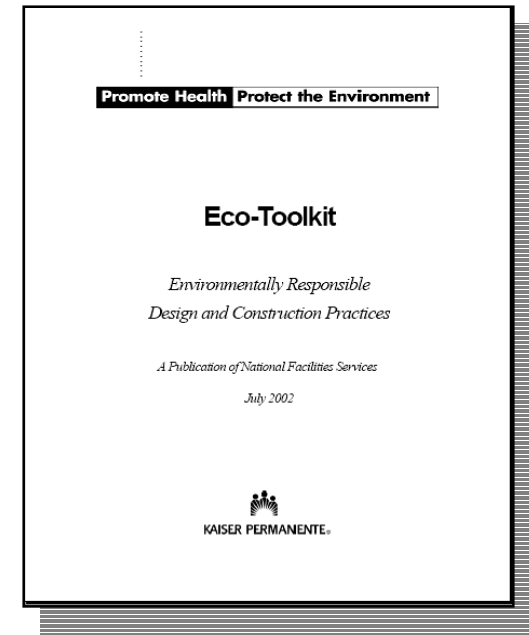
“We aspire to provide health care service in a manner that protects and enhances the environment and health of the community now and for future generations.”

Defining green



Looking outside the organization








-  ASHE Green Guidance Statement 2001
-  KP Eco-toolkit 2002
-  Green Guide for Healthcare



Using the GGHC



Green Guide for Health Care

-  Integrated design
-  Sustainable sites
-  Water efficiency
-  Energy & atmosphere
-  Materials & resources
-  Environmental quality
-  Innovation in design

Overcoming

Institutional barriers

Do we need to spend more green to build green?

Integrated teams



KP Alliance program

- Architects and engineers
- Contractor
- Owners representative, as well as:
physicians, staff, facility operations staff

Numerous initiatives

-  Pervious Paving
-  Brownfield sites
-  Native species in landscaping
-  Daylight and views of the natural environment
-  Photovoltaics
-  Community Areas - Farmers Markets
-  Solar site lighting
-  Areas for recycling
-  Recycled content in materials
-  Encourage alternative transportation
-  Tobacco-free sites
-  Non PVC backed carpet



Standards for KP design and construction

- Leverage buying power
- Increase best practice application to operations
- Decrease design time
 - § Design templates at room level.
 - § CSI organized design expectations

Standards for KP design and construction

National Purchasing Agreements

Carpet – PVC free
resilient flooring

Signage

Security Systems

Fire Alarms

Air Conditioning Systems

Lighting

Elevators

Acoustical Ceiling Tiles

Patient Headwalls

Wall/Corner Protection

Door Hardware

Occupancy Sensors

Stainless Steel Sinks

Nurse Call Systems

Air Handlers

Air Distribution Equipment

Chillers

Rooftop Air Conditioning Units

NPA for carpet

1993

- NPA for carpet established in 1993
- Focus on recycling and landfill diversion
- Product: broadloom; 6' vinyl-backed

NPA for carpet

2001-2002

- 2-year study of all facilities
- Partnered with manufacturers
- Evaluated type, condition, cleaning methods

- Result:
 - **eliminated broadloom from standards**

NPA for carpet

2002 RFP

- Required vendor submissions:
 - environmental impact from manufacturing through “post-use”
 - Independent testing results
 - Product samples
 - Questionnaire response
 - Presentation

NPA for carpet

RFP Outcomes

- “Ideal” product did not exist
- Vendor selection focused on R&D efforts to create alternative to vinyl
- Created partnerships with manufacturers to explore PVC-free alternatives

NPA for carpet

Today

- **C&A ethos carpet**
 - **High recycled content backing >96%**
 - **Backing made from reclaimed film used in laminated safety glass**
 - **Exceeds performance of earlier carpets**
 - **Costs the same as earlier PVC backed carpet**
- **Carpet removed from our site is recycled**

Where do we

Go from here ?

- Stratica, by Amtico
- Nora rubber flooring

