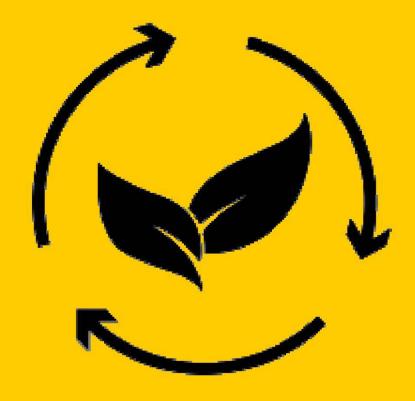
District Green Team Informational Meeting



February 28, 2018

Agenda

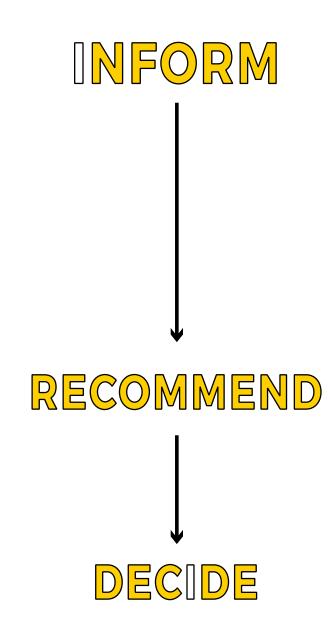
- 7:00 Purpose, role, and introductions
- 7:05 Green schools and key factors
 - Sustainable design categories
- 7:25 World café activity
- 8:10 Wrap up and next meeting

Agenda

- 7:00 Purpose, role, and introductions
- - Sustainable design categories
- 7.25 World cafe activity
- CIO- Map up and next meeting



COMMITTEE ROLES





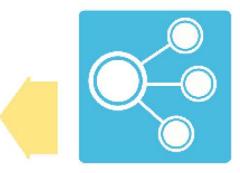
BUILDING DESIGN TEAMS











STAFF USER GROUPS









FACILITIES TASK FORCE



RECOMMEND



THE BOARD OF EDUCATION

DECIDE





INTRODUCTIONS

DISTRICTWIDE GREEN TEAM



Agenda

- 7:05 Green schools and key factors
 - Sustainable design categories



GREEN SCHOOLDEFINITION

"A school that creates a healthy environment that is conducive to learning while saving energy, resources, and money."



WHAT IS A SUSTAINABLE OR 'GREEN' SCHOOL?

- USES LESS ENERGY AND WATER
- LESS COSTLY TO OPERATE
- REDUCES ENVIRONMENTAL IMPACT
- ENVIRONMENTALLY PREFERRED PRODUCTS
- HEALTHY INDOOR AIR QUALITY
- . DAYLIGHT AND VIEWS



HOW GREEN SHOULD OUR NEW SCHOOLS BE?

- GOALS AND PRIORITIES
- · COSTS (first, operating, life cycle, ROI)
- DESIGN AND PERFORMANCE
- **EDUCATIONAL OPPORTUNITIES**
- TOLERANCE FOR INNOVATION
- SOCIETAL ASPECTS



SUSTAINABLE DESIGN EXPLORATION

- ENERGY PASSIVE, ACTIVE, & RENEWABLES
- WATER BUILDING & SITE
- MATERIALS CONTENT AND SOURCE
- INDOOR AIR QUALITY AND ENVIRONMENT
- SITE HARDSCAPE, LANDSCAPE, & STORMWATER
- RESILIENCE PREPAREDNESS AND COMMUNITY HEALTH
- OPTOMIZED PROGRAM FLEXIBILITY AND SQ. FT REDUCTION
- FINANCIAL OPERATIONS, PAYBACK & GRANTS



SUSTAINABLE DESIGN EXPLORATION

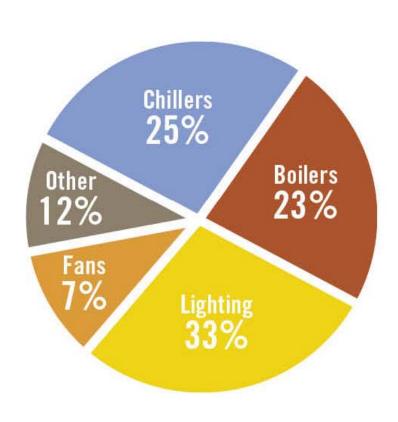
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ENERGY USE

Understanding Energy Use in Schools



This will vary depending on your climate region.

How much does your school spend each year on energy?

Elementary School:

\$70,000 to \$150,000

Middle School:

\$100,000 to 200,000

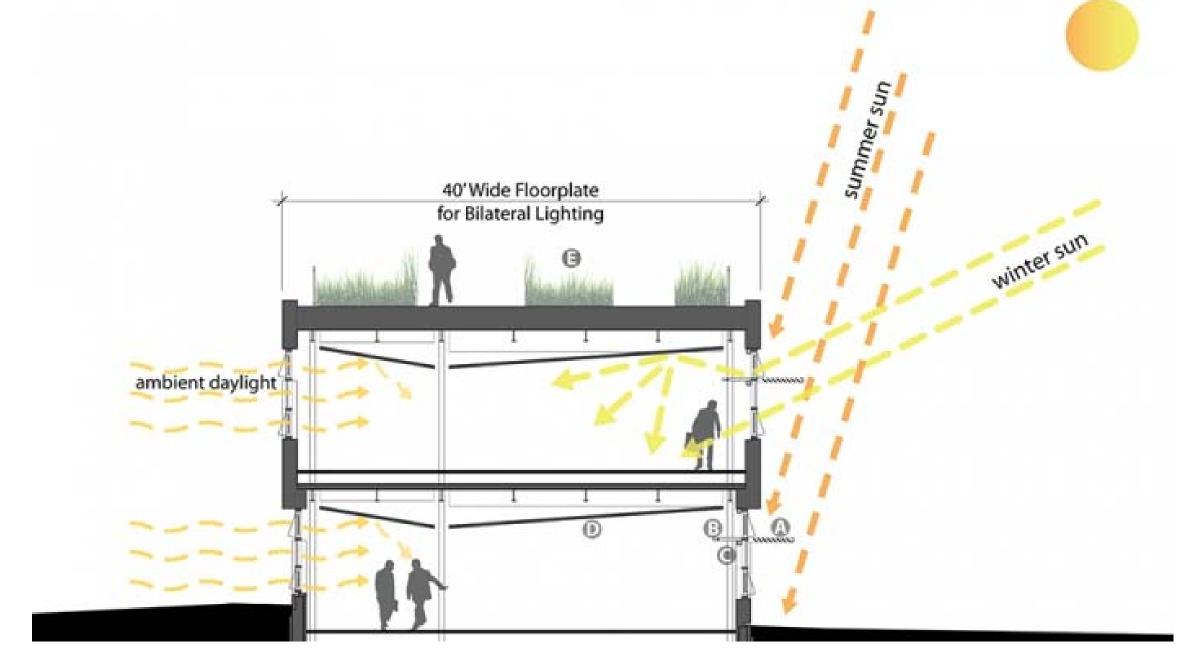
High School:

\$200,000 to \$650,000



ENERGY USE - STRATEGIES

REDUCE LOADS: ORIENTATION, MASSING, FENESTRATION, AND SHADING







ENERGY USE - SYSTEMS

OPTIMIZE PERFORMANCE





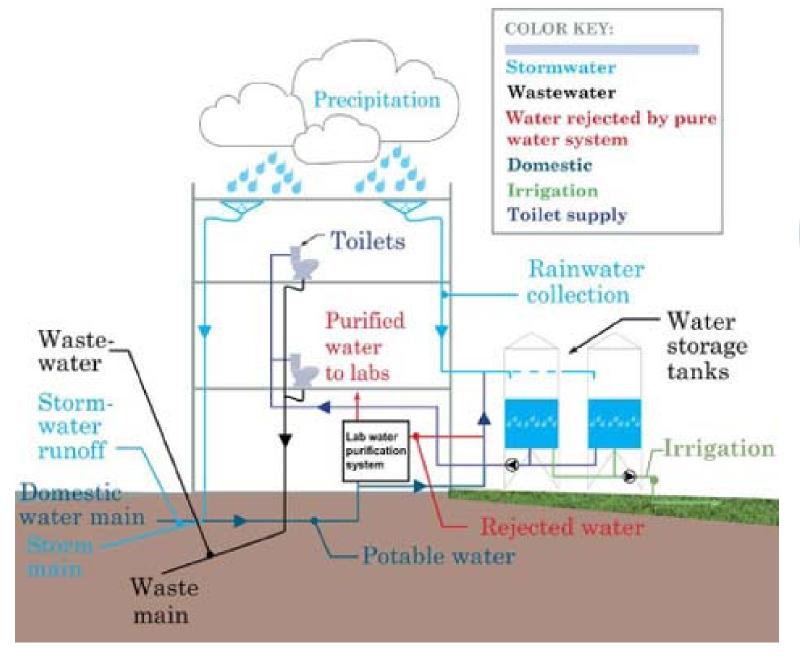


ALTERNATIVE AND RENEWABLES

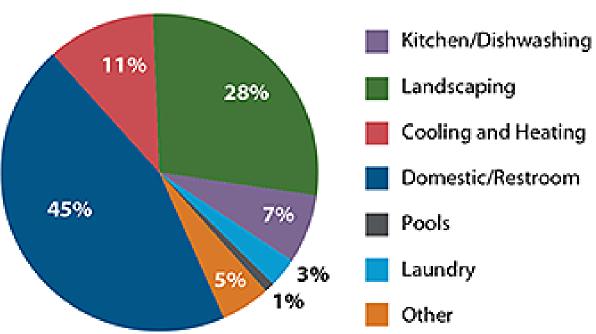


WATER USE

CONSERVATION & REUSE



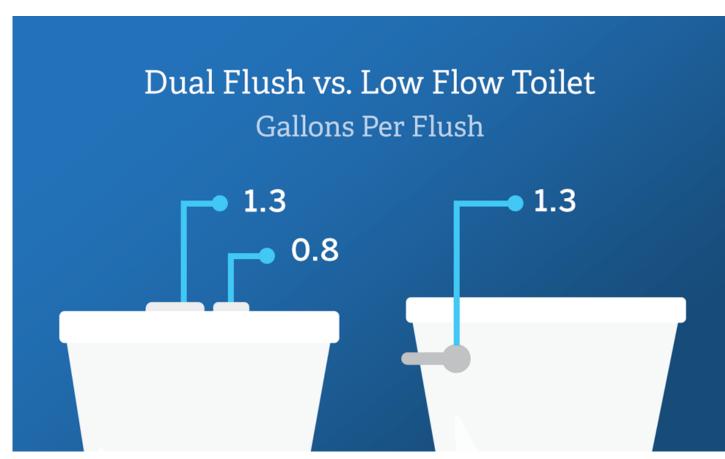
End Uses of Water in Schools





WATER USE CONSERVATION







MATERIALS

TYPICAL CLASSROOM





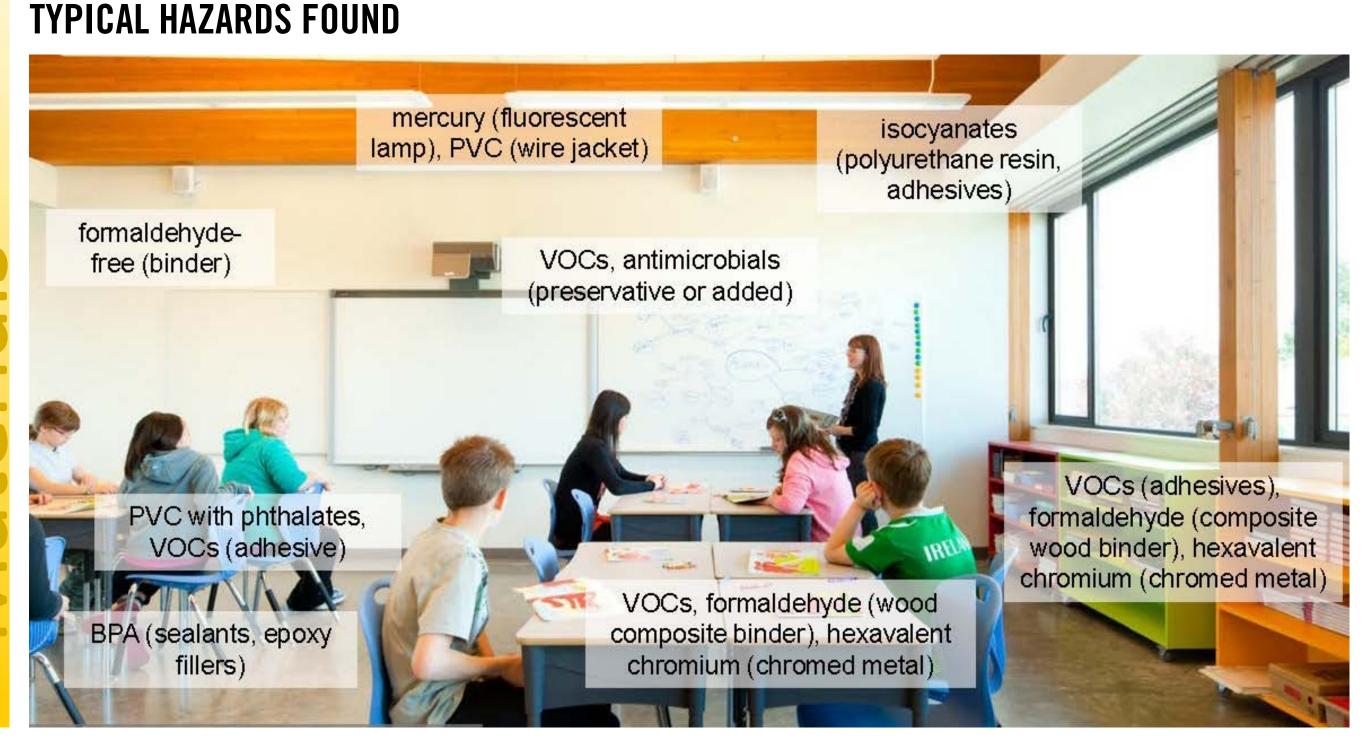
MATERIALS

TYPICAL FINISHES



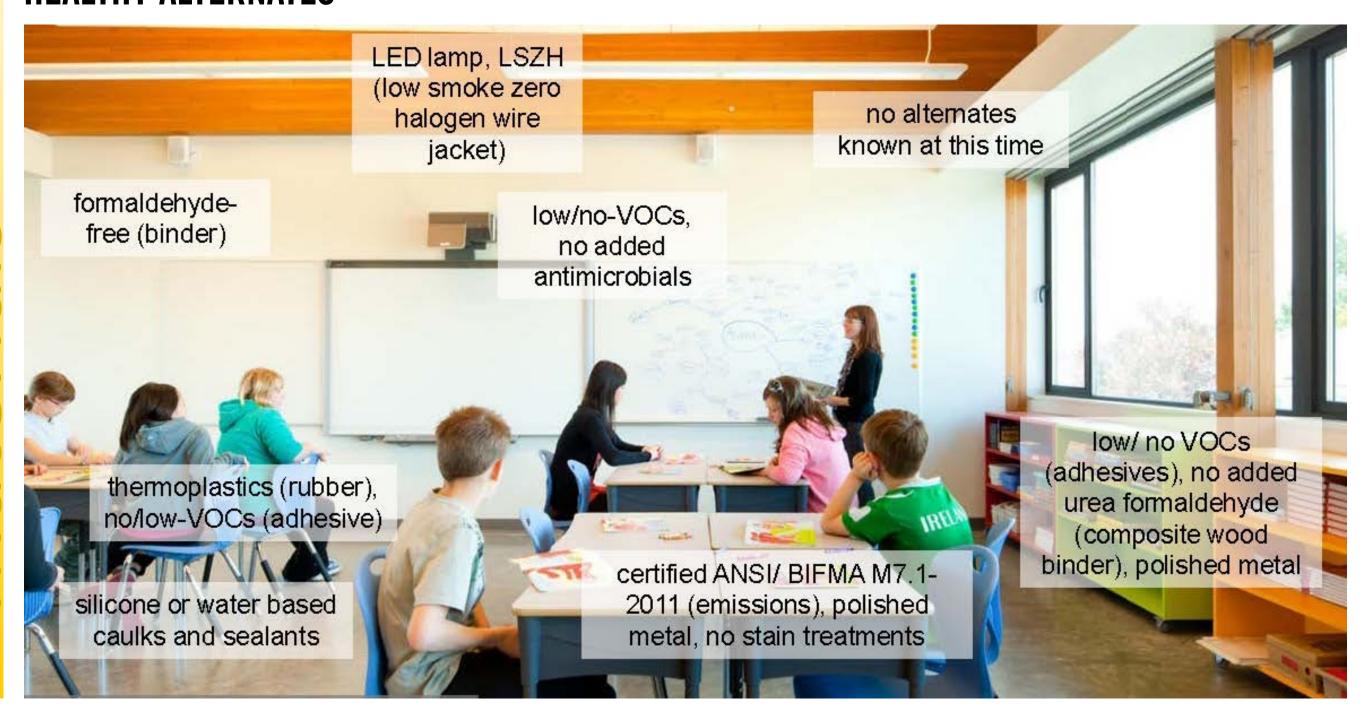


MATERIALS





MATERIALS HEALTHY ALTERNATES





IEQACCESS TO DAYLIGHT AND VIEWS

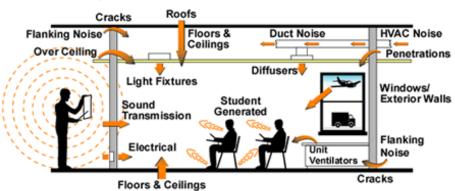


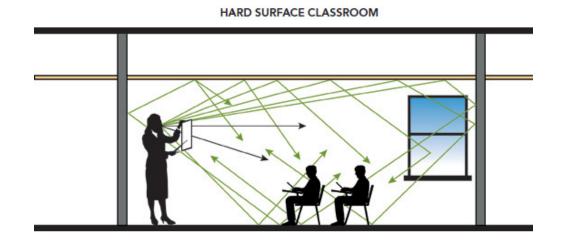


IEQACOUSTICS

AMBIENT OR BACKGROUND NOISE LEVEL

Is the totality of all sounds within the room when the room is unoccupied.



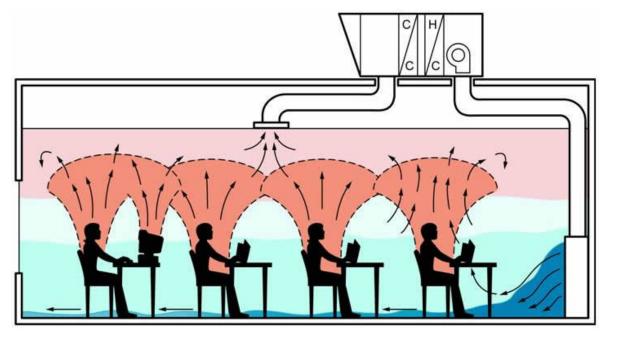


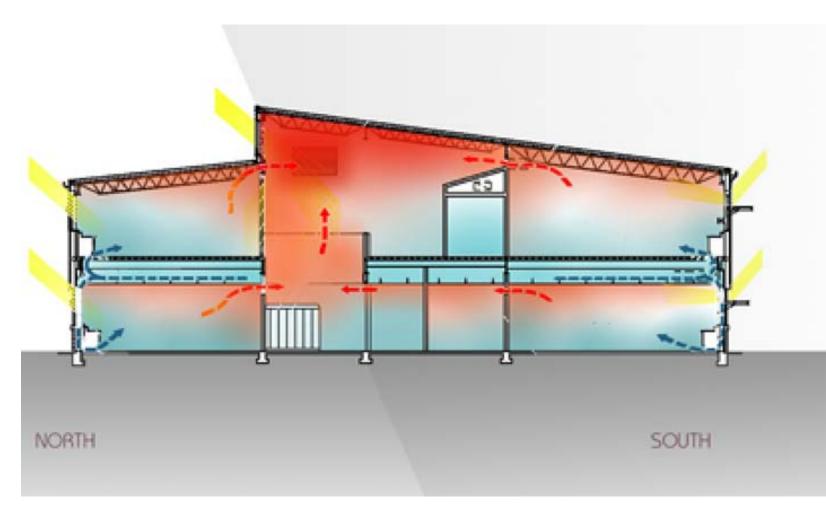






IEQTHERMAL COMFORT







SUSTAINABLE SITES

STORMWATER MANAGEMENT







SUSTAINABLE SITES

HEAT ISLAND EFFECT



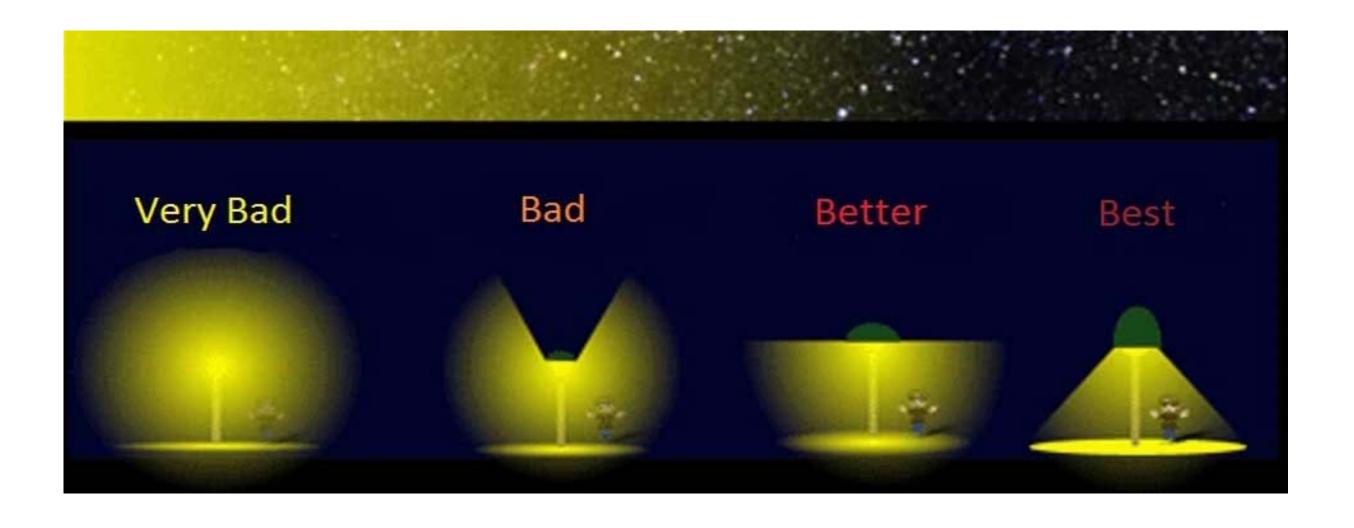






SUSTAINABLE SITES

REDUCED LIGHT POLLUTION

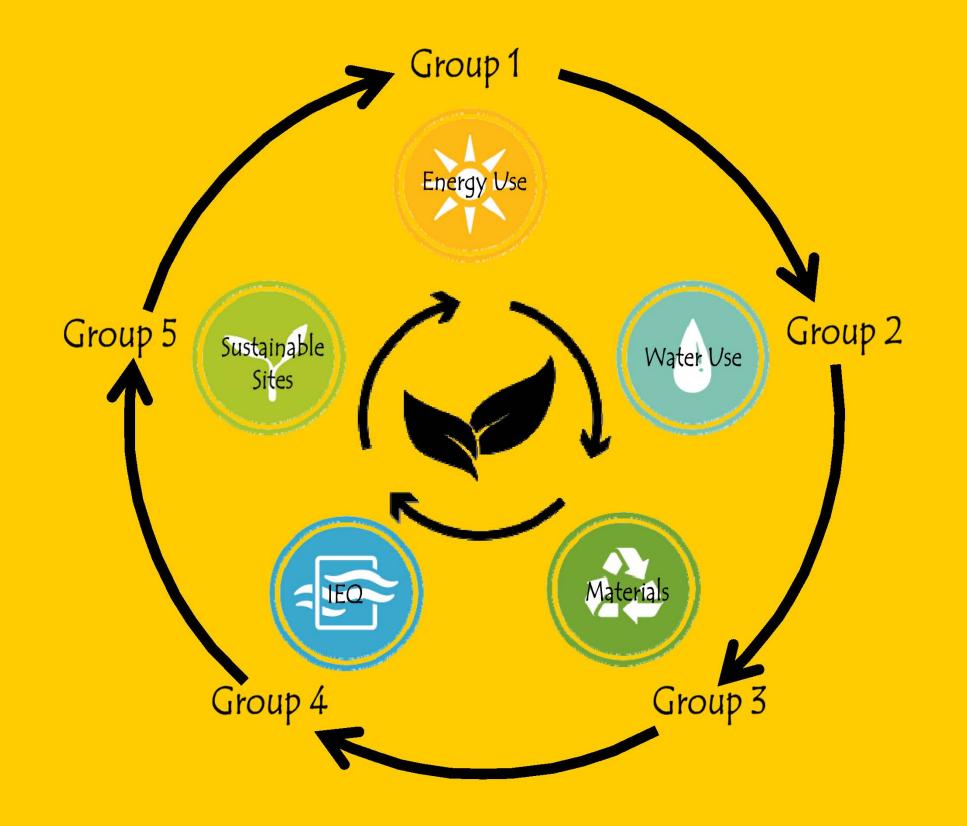


Agenda

- 7.00 Purose, role, and introductions
- 7:05 Green schools and key factors
 - Sustainable design categories
- 7:25 World café activity

World Cafe

- 1. Self-divide into 5 equal groups...
- 2. Each group works on one question for 5 minutes...
- 3. Rotate to next group leaving one person behind to share with next group...
- 4. Work on next question for 5 minutes....
- 5. Rotate...work...rotate
- 6. Report out



From your perspective...for each category...

What sustainable strategies should we explore?

Agenda

- 7.00 Purose, role, and introductions
- 705 Green schools and key factors
- 8:10 Wrap up and next meeting

District Green Team Next Meeting



Tuesday, March 20, 2018
Topic: Prioritizing your suggested strategies